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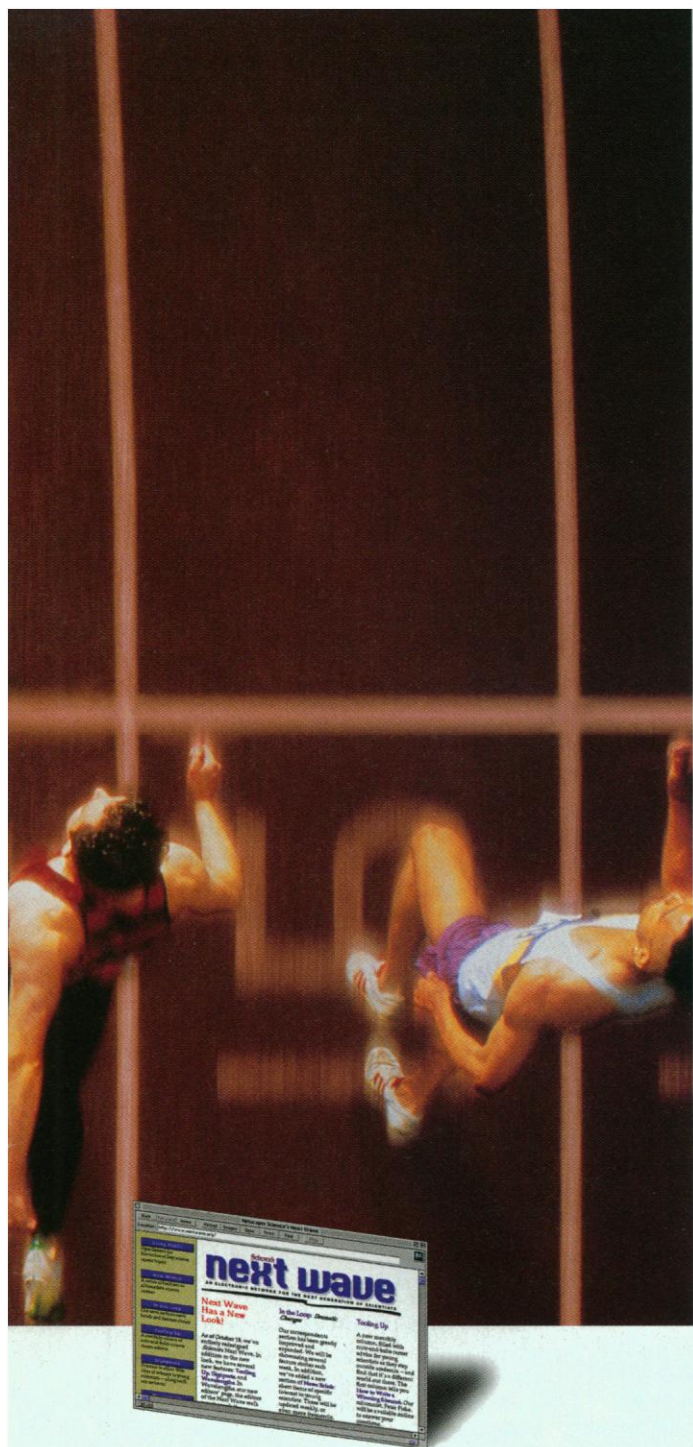
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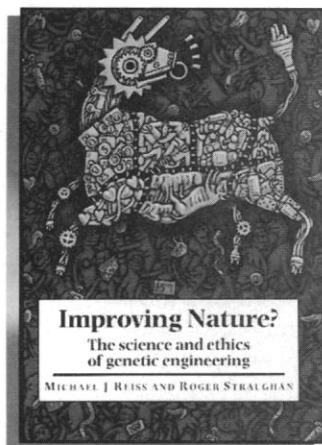
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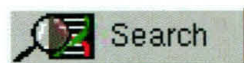
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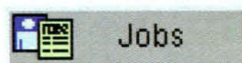
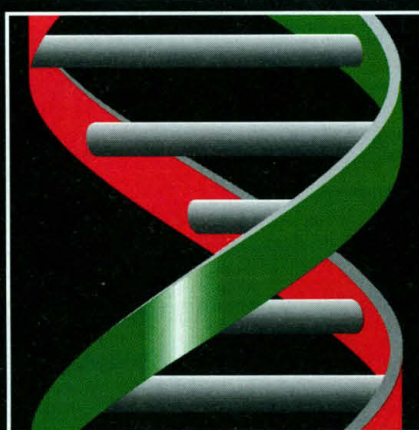
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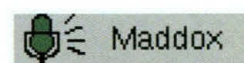


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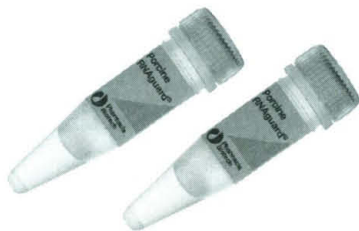
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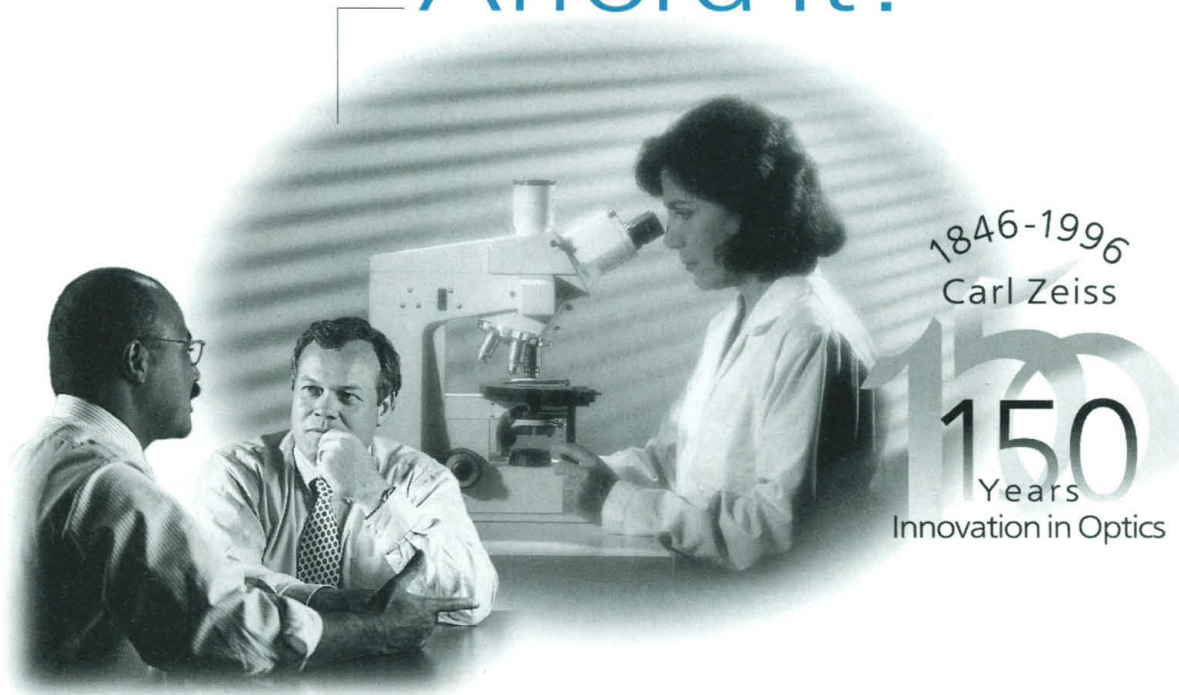
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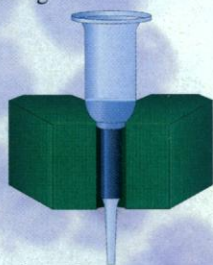
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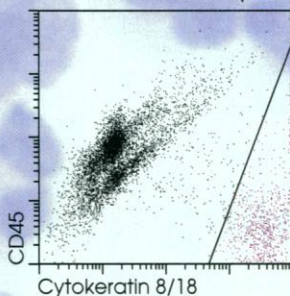
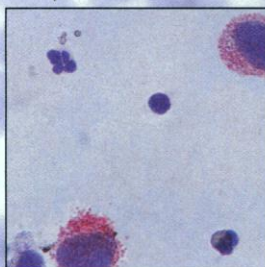
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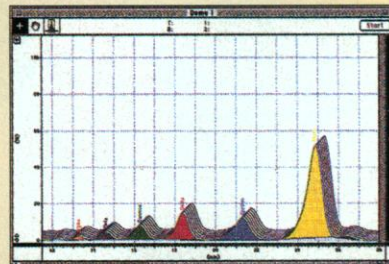
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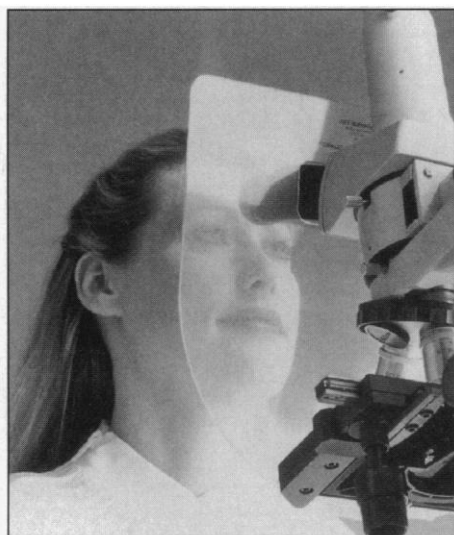
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A monoclonal antibody (mAb) is available to human nerve growth factor, which is necessary for differentiation and upkeep of sensory and sympathetic peripheral nervous system function. **Wako BioProducts.** For information call 800-992-9256 or circle 140 on the reader service card.

A mAb to nerve growth factor receptor recognizes a 75-kD receptor protein that promotes neural cell death when unbound. Binding of this protein by a ligand or antibody has been shown to inhibit cell death.

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

Another mAb is available against endoglin, a Type I transmembrane protein that is highly expressed on human vascular endothelial cells. It can be used on formalin-fixed, paraffin-embedded sections. **Dako.** For information call 800-235-5743 or circle 141 on the reader service card.

## Allophycocyanin-Conjugated Antibodies

A range of monoclonal antibodies (mAbs) conjugated with allophycocyanin (APC) can be used for configuring multi-color assays with dual laser flow cytometers. APC-conjugated mAbs are available to human cell markers CD3, CD4, CD8, CD14, CD19, CD34, CD45, and HLA-DR. APC conjugates to murine markers include mAbs to Thy-1.2, CD4, CDS, and CD45R(B220). The manufacturer also offers second-step reagents conjugated with APC for use with unconjugated or biotin-conjugated antibodies. **Caltag Laboratories.** For information call 800-874-4007 or circle 142 on the reader service card.

## DNA Isolation from Agarose

The *geneEXIT* system is for the extraction of DNA from agarose gels. The user simply runs samples on the Uni-Lane agarose gels and uses *pinkRESIN* DNA binding matrix to isolate the DNA. The system provides clean DNA ready for any downstream application without the use of toxic solutions, phenol/chloroform extractions, or ethanol precipitations. **Geno Technology.** For information call 314-534-0075 or circle 143 on the reader service card.

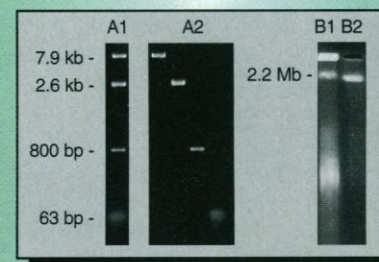
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DNA from 63 bp to 7.9 kb (A1) and 2.2 megabases (B1) was separated by electrophoresis on LMP-agarose, recovered using GELase Preparation, and analyzed by electrophoresis on new LMP-agarose gels (A2 & B2). The DNA was recovered undegraded and in high yield.

(Pulsed-field CHEF gels B1 & B2 courtesy of L. Chen & A. Atherly, Zoology & Genetics, Iowa State Univ., Ames, IA.)



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### Antibodies

Monoclonal antibody (mAb) LJ27.9 reacts specifically with CD45, a glycoprotein isoform that exhibits receptor-like composition and displays intracellular protein tyrosine phosphatase activity. A polyclonal antibody is available that reacts with Factor XIII Subunit A. Factor XIII is a protransglutaminase enzyme that plays a major role in the final stages of the coagulation pathway, stabilizing clot formation by cross-linking fibronectin to collagen. The mAb 5C11 can be used to stain glomerular epithelial protein 1, a transmembrane tyrosine phosphatase found only in epithelial cells of the renal glomerulus. The mAb CALP reacts with calponin, a 33-kD, smooth muscle-specific protein capable of binding F-actin, tropomyosin, and calmodulin. Calponin may play a role in the regulation of smooth muscle con-

tractility. The anti-caldesmon antibody (mAb h-CD) can be used to characterize the differentiation process of mammary myoepithelial cells in developing mammary gland, to investigate the nature of myoepithelial cells, and to study the development of smooth muscles. The mAb 1B12 reacts specifically with the 1B12 antigen in *Candida albicans* to identify this agent of the most common fungal infection. The antibodies are all for use in formalin-fixed, paraffin-embedded tissue sections. **BioGenex.** For information call 510-866-2587 or circle 145 on the reader service card.

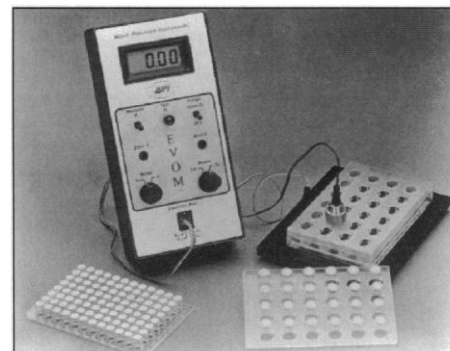
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or for measuring plates at multiple time points. **Packard Instrument.** For information call 800-323-1891 or circle 146 on the reader service card.

### Tissue Resistance Measurement

The Endohm-Multi is a tissue culture resistance measuring device for multi-well cell culture plates such as Millipore's Multi-Screen 96-well membrane filter plate and the Polyftronics Unicell 24-well filter bottom plate. The bottom of the Endohm-Multi



is a fluid receptacle that also serves as the bottom half of an electrode pair. By manually inserting the top electrode into a well, the user can read the tissue resistance of the sample. **World Precision Instruments.** For information call 941-371-1003 or circle 147 on the reader service card.

### Literature

*High Throughput Genetic Analysis System with "Split Well" CyclePlates* is a brochure on equipment and plastics for laboratories engaged in polymerase chain reaction (PCR) and cycle sequencing. "Split Well" CyclePlates are a new generation of high sample density, thin wall plates for PCR. **Robbins Scientific.** For information call 800-752-8585 or circle 148 on the reader service card.

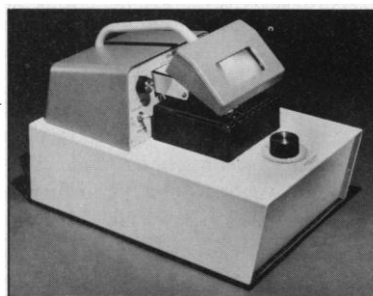
ATR's Oil Free Vacuum Systems features a line of low-maintenance solid Teflon pump systems for gel drying and DNA analysis. **Appropriate Technical Resources.** For information call 800-827-5931 or circle 149 on the reader service card.

*PCR Sequencing Protocols* is a reference guide describing step-by-step strategies and techniques for direct and indirect polymerase chain reaction sequencing. Each protocol contains explanations of certain steps as well as time-saving tips and suggestions for successful use. **Sigma Chemical.** For information call 800-521-8956 or circle 150 on the reader service card.

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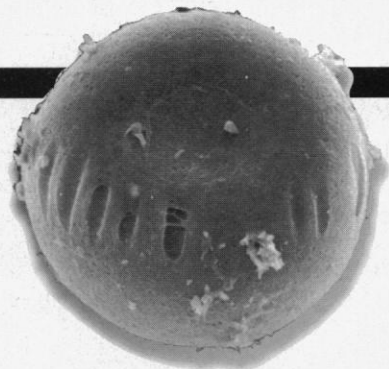
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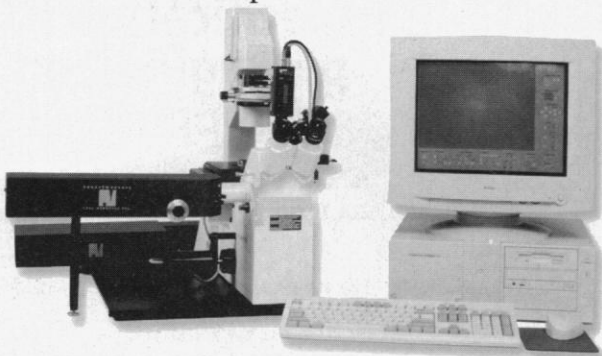
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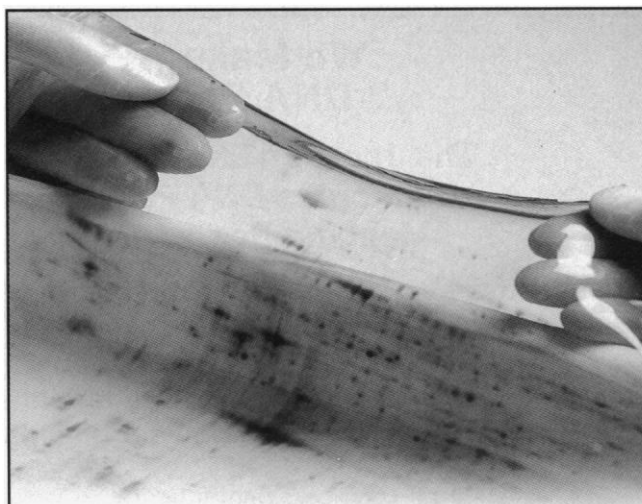
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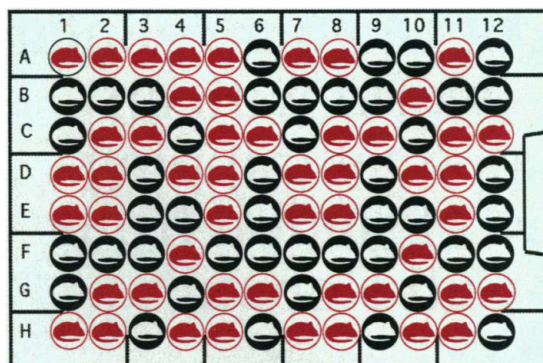
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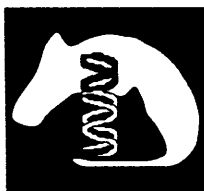
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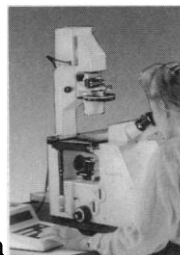
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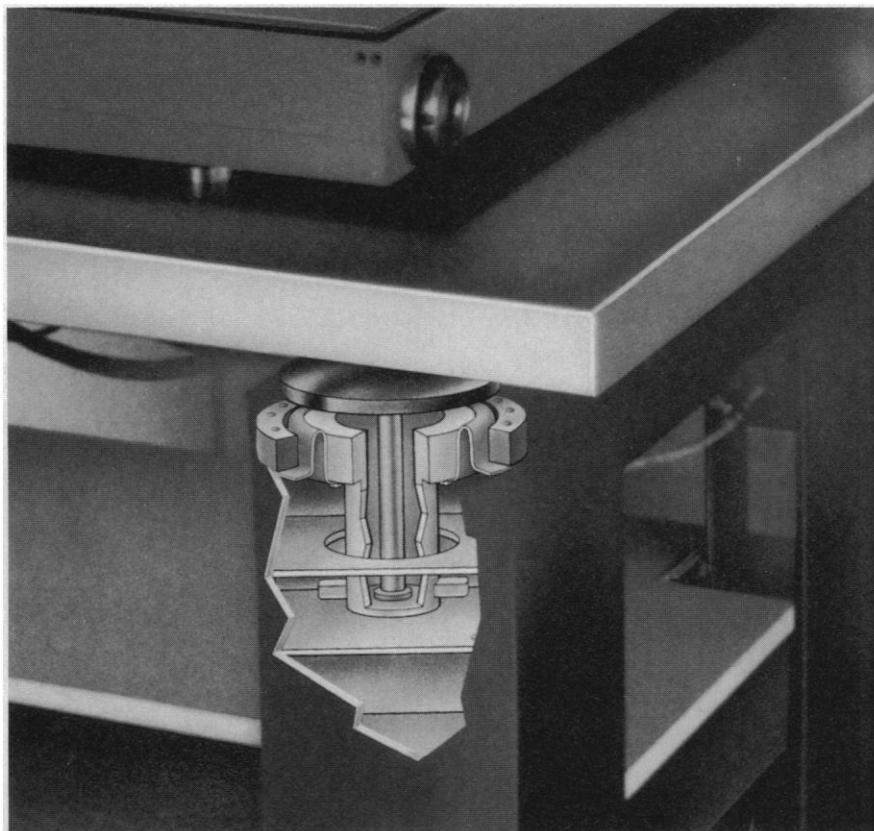
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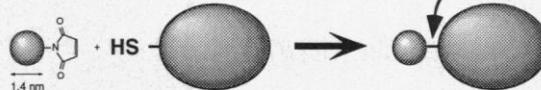
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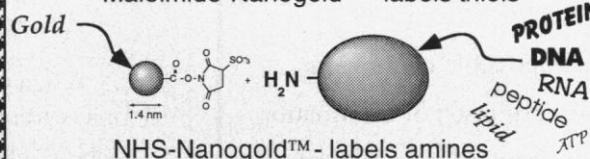
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Hoffman, R. Orthotopic is orthotopic: why orthotopic transplant metastatic models are different from all other models? *J. Cellular Biochem.* 56, 1-4, 1994



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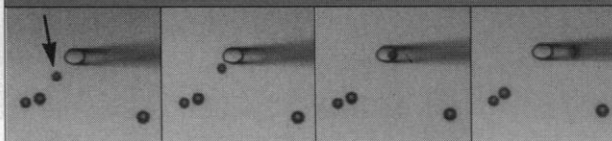
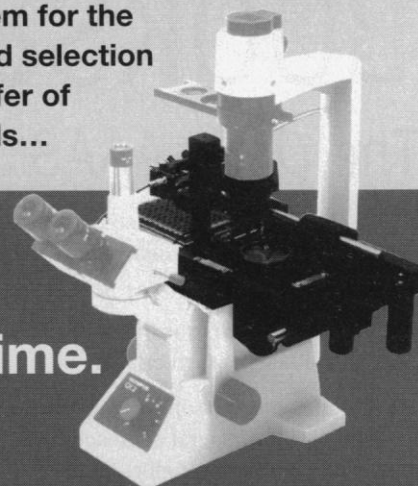
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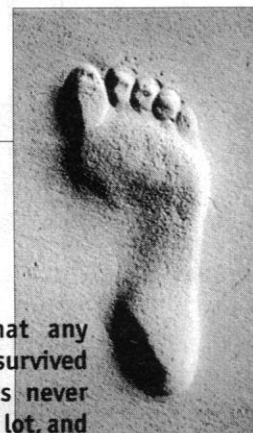
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## POSITIONS OPEN

### FACULTY POSITION MOLECULAR VIROLOGIST

The Department of Medical Microbiology and Immunology at The Ohio State University is seeking applications for a tenure-track, hard-money faculty position at the ASSISTANT/ASSOCIATE PROFESSOR level in Molecular Virology. Individuals whose research emphasizes molecular, biochemical, and/or genetic approaches using any virus model are encouraged to apply. The Ohio State University is in the midst of an aggressive recruitment effort and expansion in Molecular Life Sciences, including Molecular Medicine. Opportunities exist for interaction with molecular virologists within the department and throughout one of the most comprehensive universities in the country. Affiliations with the University's Comprehensive Cancer Center, Retrovirus Center, AIDS Clinical Trials Unit, Heart and Lung Institute, Children's Hospital Research Foundation, and other interdisciplinary programs are encouraged. Candidates hired at the rank of Assistant Professor will be expected to develop and maintain a high quality, funded research program. Individuals at the rank of Associate Professor will have a proven track-record of peer-reviewed funding with strong potential for a nationally recognized research program. Applicants should forward a curriculum vitae, statement of research interests/goals, and the names of three references to: **Dr. Marshall Williams, Chairperson, Virology Search Committee, Department of Medical Microbiology and Immunology, 333 West 10th Avenue, The Ohio State University, Columbus, OH 43210.** Consideration of applications will begin on January 2, 1997, and continue until the position is filled. *The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disabilities are encouraged to apply.*

### CHAIRPERSON

Department of Pharmaceutical Sciences  
Texas Tech University HSC at Amarillo

The Department presently includes ten faculty plus six new positions for 1997. Total planned faculty is 18, with expertise in immunology, molecular biology, pathophysiology, pharmacology, toxicology, pharmaceuticals, and pharmacoeconomics. Chairperson has responsibilities for personnel and budget management; instruction and research are also expected.

The successful candidate will have accomplishments in mentoring young scientists and program development; an active research program; accomplishments commensurate with an appointment at rank of PROFESSOR with tenure; and a commitment to professional pharmacy education.

Application review begins January 6, 1997; open until filled. Submit curriculum vitae; description of research program and plans; and names, addresses, telephone, and FAX for three references to:

**Arthur A. Nelson, Jr., Dean**  
TTUHSC School Pharmacy  
1300 South Coulter  
Amarillo, TX 79106

Check out our home page: [www.ismo.ama.ttuhsc.edu](http://www.ismo.ama.ttuhsc.edu).

*Minorities and women encouraged to apply.*

The Department of Environmental Analysis and Design in the School of Social Ecology at the University of California, Irvine seeks an ASSISTANT PROFESSOR (tenure-track) in the area of public and environmental health microbiology with a strong research emphasis in molecular biology in such areas as viruses or protozoans, bioremediation, diagnostic microbiological methods, or microbial epidemiology (RFLP or other fingerprinting techniques). The incumbent should have a Ph.D. or be completing a Ph.D. in public and environmental health microbiology, or related field. The incumbent will teach graduate courses in support of the Environmental Biotechnology, Environmental Health Science, and Epidemiology and Public Health concentrations of the new Ph.D. Program in Environmental Health Science and Policy. At the undergraduate level the incumbent will teach such courses as Microbial Ecology of Natural and Polluted Waters. Applicants should submit a letter of interest, curriculum vitae, representative publications, and a list of names of references from whom to solicit letters. Send application materials to: **Bev McKinney, Personnel Manager, School of Social Ecology, 300 SEL, University of California, Irvine, CA 92697-7050.** Application deadline: February 1, 1997. *The University of California is an Equal Opportunity Employer committed to excellence through diversity.*

## POSITIONS OPEN

### FACULTY POSITIONS Cardiovascular Pharmacology Renal Pharmacology Human Pathophysiology Pharmaceutics Drug Metabolism

The Department of Pharmaceutical Sciences, Texas Tech School of Pharmacy, invites applications for five tenure-track, 12-month ASSISTANT/ASSOCIATE PROFESSOR positions. Seeking committed educators and exceptional researchers with postdoctoral training. Join faculty of nine in a new pharmacy school. Submit curriculum vitae; summary of research accomplishments and future plans; description of teaching philosophy; and names, addresses, and telephone numbers of three references to:

**Pharmaceutical Sciences Search Committee**  
TTUHSC School of Pharmacy  
1300 South Coulter  
Amarillo, TX 79106

Visit our home page: [www.ismo.ama.ttuhsc.edu](http://www.ismo.ama.ttuhsc.edu)  
*Women and minorities are encouraged to apply.*

### ASSISTANT PROFESSOR BIOLOGICAL SCIENCES Carnegie Mellon University

Applications are invited for a TENURE-TRACK position at the level of Assistant Professor. The successful candidate is expected to develop an independent research program and to participate in the teaching of undergraduate and graduate students. We are especially interested in applicants who use molecular genetic analysis to study fundamental biological processes in tractable eukaryotic systems. We particularly encourage applications from candidates whose work makes innovative use of emerging information about whole genome structure and function and can benefit from local strengths in yeast molecular genetics, microscopy, biological detection, imaging, and computing. Applicants must have a Ph.D. and relevant experience. Please send a curriculum vitae and a description of the proposed research program and have three letters of recommendation sent to: **Biological Sciences Search Committee, Carnegie Mellon University, Box L, 4400 Fifth Avenue, Pittsburgh, PA 15213 U.S.A.**

*Our department is eager to diversify its faculty: we encourage women and minorities to apply. Carnegie Mellon University is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT/ASSOCIATE PROFESSOR

Microbiology/Immunology, LSU Medical Center. The Department of Microbiology and Immunology, Louisiana State University Medical Center, invites applications for a TENURE-TRACK position at the Assistant or Associate Professor level. Applicants for the Associate Professorship must have a record of national research funding. The successful candidate must establish a strong, independent research program that focuses on prokaryotic or eukaryotic gene regulation or the cellular or molecular aspects of bacterial, viral, or parasitic pathogenesis; interactions of pathogens with the immune system; or oncogenes/tumor suppressor genes. Responsibilities include teaching medical and graduate students. Generous start-up funds, research incentive plan, and excellent facilities are offered. Applicants should submit a curriculum vitae, description of funded and future research, and three letters of reference to: **Dr. Dennis J. O'Callaghan, Professor and Head, Department of Microbiology and Immunology, LSUMC, 1501 Kings Highway, Shreveport, LA 71130.** *An Affirmative Action Employer.*

### FACULTY POSITION IN MICROBIOLOGY

The Department of Biological Sciences, University of Southern Mississippi, invites applications for a tenure-track position at the ASSISTANT PROFESSOR level starting fall 1997. Applicants may have research interests in any area of microbiology. The successful candidate will be expected to develop a vigorous, independent research program and to direct graduate students (M.S., Ph.D.). Teaching duties will preferentially include pathogenic microbiology and rotation in introductory and graduate microbiology courses. Candidates should submit a statement of research and teaching interests, curriculum vitae, representative reprints, and names of at least three references. For more information regarding the University and Biological Sciences department see <http://www.usm.edu>. Applications must be received by 31 January 1997 and should be sent to: **Dr. Glen Shearer, Chair, Search Committee, University of Southern Mississippi, Biological Sciences Department, Hattiesburg, MS 39406-5018.** *Affirmative Action/Equal Employment Opportunity/ADA Institution.*

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#### ❖ Project Manager

You will direct a team focused on the identification and characterization of novel genes associated with cancer. You must possess a Ph.D. or MD with exceptional experience in molecular virology/oncology, proven managerial skills and a high level of interest in emerging infectious diseases. 5+ years' industrial experience is preferred.

#### ❖ Senior Research Scientist

You will lead efforts to clone and characterize novel microbial genes. You must have a Ph.D. in Molecular Biology or Biochemistry, 3+ years' industrial experience and demonstrated talent and experience in recombinant DNA technology.

#### ❖ Research Associates

You will be responsible for providing cloning, PCR and sequencing expertise to novel gene discovery efforts. You must have a MS/BS in Molecular Biology or Biochemistry, 2+ years' industrial experience, and experience in RNA and DNA isolation techniques, PCR analysis, Northern and Southern analysis and standard immunodiagnostic techniques. One position will also require proficiency in Mac/PC/UNIX network maintenance and DBA.

### Product Development

#### ❖ Immunoassay Research Scientists

You will lead efforts in developing immunoassays from research to commercialization. While developing and implementing innovative approaches to protein purification, antibody production and immunoassay optimization, you will also be responsible for writing patent applications, scientific papers and product submissions. You must have a Ph.D. in Microbiology, Immunology or a related field with 3 years' industrial experience, or an MS with 5 years' experience.

#### ❖ Core Scientist

You will provide your expertise in monoclonal antibody production, protein expression and characterization and cell culture while working in concert with other assay development team members to optimize reagents for assay formats. You must have a Ph.D. in Immunology or Biochemistry with 3 years' industrial experience, or an MS with 5 years' experience.

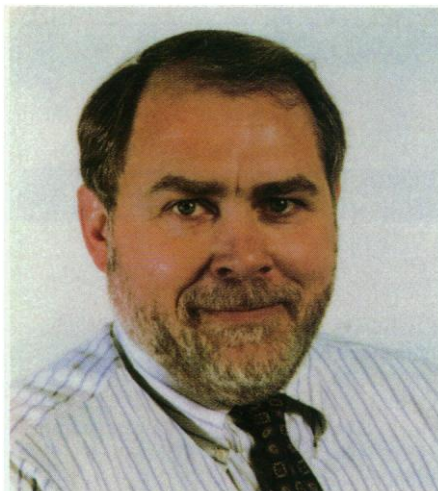
#### ❖ Research Associate

Playing a key role in carrying diagnostic tests from research stage through product launch, your responsibilities will include designing and running assays, optimizing manufacturing conditions and document writing. You must have a BS in Immunology or Biochemistry with 3 years' industrial experience. Product development and GMP experience is a plus.

*Sentinel Biosciences is located in the Stanford Research Park in Palo Alto, CA. We offer competitive salaries and benefits, excellent facilities and a supportive and dynamic environment. Please forward your curriculum vitae and a brief description of your research experience to: Manager, Human Resources, Sentinel Biosciences, Inc., 855 California Avenue, Suite C, Palo Alto, CA 94304 or FAX: (415) 493-3604. EOE*

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W.G. Iverson on R & D management at Heineken Technical Services, Zoeterwoude, the Netherlands.

# "The easiest problems have already been solved"

**At Heineken Technical Services - Heineken's state-of-the-art R&D facility and 'engineering' office - a broad-based, ambitious research programme is being carried out under the direction of Wendell G. Iverson, R&D Manager.**

Iverson:

## **Tradition of Quality**

"R&D at Heineken is a valued and integral part of the company, due in part to Heineken's tradition of quality and in part to the value Heineken places on being a leader. Heineken was the first brewery in history with an analytical laboratory. Today, we have one of the strongest R&D programmes in the brewery world... challenging projects, highly motivated and skilled people, excellent facilities, and strong management support... serving our breweries throughout the world.

## **Section Manager R&D Product & Process Quality**

"We are currently looking for an R&D Section Manager for Product & Process Quality, a section with 25 people responsible for R&D projects on barley, malt, yeast, fermentation, and microbiology as well as projects focused on product quality and consistency. While the project portfolio includes shorter-term projects, the majority of the work is longer-term, concentrating on adapting and applying new research developments to the world of brewing. Our requirements for this position are high: a Ph.D. in the life sciences, such as genetics, biochemistry, microbiology, plant or yeast physiology and a minimum of ten years' experience in R&D, including 5 years in R&D management, preferably in an industrial environment.

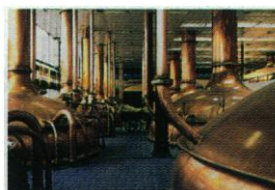


## **International Experience**

"In addition the candidate must have international experience. He/she should have lived and worked in another country for at least 2 to 3 years during his/her career. At Heineken, we have 116 breweries in 57 different countries and R&D works for all these breweries. So, we need people who enjoy communicating and working with people from many different cultures.

## **Focused R&D Projects**

"Another important requirement is the ability to develop focused R&D projects from vaguely stated opportunities or problems, from descriptions like: 'We want a new product that competes in the specialty segment' or 'Our filtration rates vary from week to week'. The Section Manager has to be a catalyst in precisely defining the opportunity or the problem... by asking the right questions. And he has to encourage his people to think for themselves, to be creative, to 'sell' their ideas to the company.



## **Teamwork**

"Then, the Section Manager has to put together an R&D team, including a 'project champion' from outside R&D, to plan and carry out the project. He has to ensure the results are communicated, clearly and simply, and are widely implemented when the project is successful. This

requires another set of skills... flexibility, patience, and interpersonal sensitivity... so we are always looking for people who are experienced and skilled in working with people from different countries.

## **Results**

"Finally, the Section Manager must be highly motivated and persistent, to ensure that his projects deliver results that are relevant to our breweries. The easy problems have already been solved, so this person must be able to deal with difficult problems, unsuccessful experiments, and -at times- slow progress.

## **People Make The Difference**

"Perhaps the most fundamental belief at Heineken is that people make the difference... good people, well trained people. Continuing education is a high priority at Heineken, particularly within R&D. The Section Manager has to develop his people...through training and coaching, encouraging and evaluating. Simply put, our objective is to hire the best people and keep them the best!

## **English Language**

"Fortunately for me, the company language is English. Otherwise I would have difficulties in communication, as I have lived in the Netherlands for two years and speak only a little Dutch.

If you meet the above requirements and are interested in a challenging R&D career, please apply for the position of Section Manager Product & Process Quality Heineken R&D, by sending a letter and CV to Mr. C.F.F. Mensing, Personnel & Management Services, P.O. Box 530, 2380 BD Zoeterwoude, the Netherlands.





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## ASSISTANT PROFESSOR OF BIOCHEMISTRY THE OHIO STATE UNIVERSITY

The Department of Biochemistry at The Ohio State University is initiating a search for a full-time tenure track faculty member at the Assistant Professor level. We are interested in applicants in the area of proteins: structure and function. The candidate should have a doctoral degree and at least two years of postdoctoral experience. Additional requirements are: a strong record of research accomplishments; commitment to developing an independent, creative research program; and skill in teaching at both graduate and undergraduate levels. A highly competitive recruiting package is available, which includes an attractive salary and substantial funds for equipment and initial operating expenses. The Ohio State University is undergoing a major expansion to develop excellence in Biochemistry and Molecular Life Sciences.

The Ohio State University is the flagship institution of the state's higher education system. It is located in the state capital, Columbus, which is a growing, yet highly affordable, metropolitan area of about 1.3 million people. Columbus has been ranked by *Newsweek* as one of the country's best places to live and work.

Applications should include a detailed curriculum vitae, a description of research experience, and a statement of the nature of the planned independent research program. Applicants should also arrange to have at least three recommendation letters sent to the department. Applications will be accepted until a suitable candidate is hired. Review of applications will begin during January 1997. Information about our Department and University can be obtained by contacting our web site: <http://www.biosci.ohio-state.edu/~biochem/biochem.html> or by calling our offices at 614-292-6771. Application materials should be sent to: **Faculty Search Committee, Department of Biochemistry, The Ohio State University, 484 West 12th Avenue, Columbus, Ohio 43210.**

*OSU in an Equal Opportunity/Affirmative Action Employer.*

## TENURE-TRACK FACULTY

The Center for Comparative Veterinary Medicine at the Albert B. Alkek Institute of Biosciences and Technology (IBT), Texas A&M University, Texas Medical Center in Houston, Texas, invites applications for 2 tenure-track faculty positions. Candidates with research interests in areas related to infectious diseases, genetic resistance to infections, and/or the host response to infectious agents are encouraged to apply, although applicants with outstanding research experience in related areas will be considered. The IBT is composed of scientists with research interests in the areas of extracellular matrix biology, infectious diseases, DNA structure and genomic research, structural biology, developmental and reproductive biology and bioinformatics. The IBT fosters research in cell and molecular sciences, bridging human and veterinary medicine with agriculture through faculty appointments and interactions with programs in the Texas A&M University System and the Texas Medical Center. Applicants must have a D.V.M. or equivalent degree; a Ph.D. and 2 years of post doctoral experience is preferred. One position must have certification or eligibility by the American College of Laboratory Animal Medicine, and this position will have a 20% service commitment to directing the small, state-of-the-art IBT animal facility. Academic appointments for both positions will reside within the Department of Veterinary Pathobiology, College of Veterinary Medicine, Texas A&M University, College Station, TX. Applicants must demonstrate the potential to develop a vigorous, independent research program with a commitment to collaborations between the Houston and the College Station Campuses. Review of applicants will begin immediately and continue until the positions are filled. Applicants should send a curriculum vitae, statement of research goals, and a list of three references to: **IBT Human Resources, Attention Diana Taylor, Texas A&M University, 2121 West Holcombe Blvd., Houston, TX 77030-3303; telephone 713-677-7734. FAX 713-677-7725.** Additional IBT information may be viewed via WWW at <http://keck.tamu.edu> and Veterinary Pathobiology information at <http://www.cvn.tamu.edu/~vtpb>. *Texas A&M University is an equal opportunity employer committed to excellence through diversity, and encourages applications from women and minorities.*

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#### CHAIR

#### Department of Biological Sciences

The University of North Carolina at Wilmington (UNCW) invites applications and nominations for the position of Professor and Chair of the Department of Biological Sciences in the College of Arts and Sciences. UNCW is situated on a beautiful, 640-acre campus located in an historic port city on the Cape Fear River within 5 miles of the Atlantic Ocean. UNCW currently enrolls over 9,000 students, with enrollment projected to reach 12,000 by 2005.

The department recently moved into a new state-of-the-art classroom and laboratory building. Many faculty also work at UNCW's Center for Marine Science Research at nearby Wrightsville Beach and will have offices and labs in an \$18 million marine research facility soon to be constructed on the Intracoastal Waterway. The department employs 35 full-time faculty, representing a wide range of specialties, and currently enrolls more than 600 undergraduate majors and 75 graduate students. It offers undergraduate and M.S. degrees in biology and marine biology, an undergraduate degree in clinical laboratory science, and a program in teaching certification in biology. The department also participates in interdisciplinary undergraduate degree programs in environmental studies, in an interdisciplinary science program leading to the M.A. in Teaching degree, and in joint Ph.D. programs in marine sciences with NC State University and UNC-Chapel Hill.

The faculty and administration seek a distinguished scientist with a Ph.D. or equivalent degree and an outstanding record in teaching, research, and administrative service. The successful candidate will demonstrate exceptional leadership and administrative skills, including the ability to cultivate faculty having diverse interests, mentor undergraduate and graduate students, and work well with other chairs and administrators. The chair is expected to strengthen existing areas of teaching and research excellence, promote faculty development, facilitate faculty grant and contract activity, and develop interdisciplinary research and instructional programs. The position is expected to be filled by July 1, 1997.

Review of applications will begin January 15, 1997. Applicants should send a curriculum vitae; a concise statement of administrative philosophy; a description of present and future research and instructional interests; and the names, addresses, and telephone numbers of at least three references to: **Dr. Lawrence B. Cahoon, Chairperson Search Committee, Dept. of Biological Sciences, UNCW Wilmington, Wilmington, NC 28403; Telephone: 910-962-3706; FAX: 910-962-4066; Email: [Cahoon@uncwil.edu](mailto:Cahoon@uncwil.edu); Homepage: [www.uncwil.edu](http://www.uncwil.edu)**

*The University of North Carolina at Wilmington is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*



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Function  
Ciliate Molecular Biology  
Amyloid and Other Abnormal  
Protein Assembly Processes  
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Monoamines: Structural,  
Functional and Regulatory  
Aspects  
Gastrointestinal Tract VII:  
Epithelial Cell Development,  
Differentiation and Regulation  
Drugs of Abuse: The Role of  
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in Chronic Drug Abuse  
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Phosphorylation

## Keystone Resort Colorado

Biology and Chemistry of Vision

To receive complete conference schedules and the application form (available in Feb., 1997), contact:

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If this career opportunity interests you, send your resume to: Bayer Corporation, Human Resources Department, Attn: MJY-BSCB, P.O. Box 1986, Berkeley, CA 94701. EOE/AA/D.



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Corporation**

**Structural Biology Program, University of Vermont College of Medicine:** As part of a strong commitment to the development of structural biology at the University of Vermont, the College of Medicine invites applications and nominations for **three full-time faculty positions**. We welcome applications from highly talented scientists with demonstrated expertise and accomplishments in the application of state-of-the-art methods in x-ray crystallography or NMR spectroscopy to important biological problems.

Applicants must have a strong background in the structure and dynamics of proteins and/or nucleic acids. Tenure-track positions may be filled at the rank of Assistant or Associate Professor. Individuals with exceptional records of accomplishment and experience may be considered for tenured positions at the rank of Professor.

Positions and facilities are funded in part through grants from the **Howard Hughes Medical Institute** and the **Lucille P. Markey Charitable Trust**. Primary appointments are available in the Departments of Biochemistry, Molecular Physiology and Biophysics, Microbiology and Molecular Genetics, and Pharmacology. Adjunct appointments in the Department of Chemistry and/or in College of Medicine departments will be arranged by mutual agreement. Further information about departmental programs and research interests can be obtained at <http://www.uvm.edu>.

Applicants should submit a curriculum vitae, research interests and plans, and names of three references to:

**Dr. John M. Burke, Chair  
Structural Biology Search Committee  
University of Vermont College of Medicine  
E-109 Given Building  
Burlington, VT 05405**

*The University of Vermont is an Equal Opportunity/Affirmative Action Employer. Women and people from diverse racial, ethnic, and cultural backgrounds are encouraged to apply. Review of applications will begin immediately. The deadline for receipt of applications is February 1, 1997.*



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The NutraSweet Kelco Company, a unit of Monsanto, is a new affiliation of two of the best known names in the food ingredient world. With over 2500 employees worldwide, and a commitment to aggressive growth, The NutraSweet Kelco Company is projected as a dominant player in the food ingredient market in the twenty first century.

## Molecular Biologist/Biochemist

This Senior Scientist level position will develop improved microbial strains for the production of novel food ingredients. The successful candidate will have demonstrated ability to design and execute a research project under minimal direction. The ability to work effectively on multiple projects is required. He/she will be capable of working independently or within a multi-disciplinary team. The candidate will have demonstrated ability to conceive and develop new technological approaches to solving problems.

A Ph.D. in Molecular Biology or Biochemistry with 0-10 years experience is required. The candidate will have substantial and practical experience in genetic engineering of metabolic pathways. Broad and specific abilities in construction of recombinant plasmids and bacterial strains is required. A fundamental knowledge and demonstrated expertise in the analytical aspects of molecular biology are expected. Experience with the development and use of enzyme assays is preferred.

Applicants should send current CV and references who may be contacted on their behalf to: The NutraSweet Kelco Company, Human Resources, Job #SGB1, 8355 Aero Drive, San Diego, CA 92123-1718. EEO/AA Employer M/F/D/V.

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As part of our Protein Biochemistry Department, you will collaborate with Discovery Research Scientists to identify and validate protein-based drug targets. Specifically, you will evaluate therapeutic protein targets identified by novel gene expression associated with diseases. This will require the ability to work effectively in a multidisciplinary team supported by a background in protein chemistry and enzymology; experience in protein engineering utilizing phage display and oligonucleotide directed mutagenesis is desirable. Along with a PhD and at least 2-3 years' experience in enzymology and protein engineering, you must have excellent written and oral communication skills and a record of productivity evidenced by publications in peer reviewed journals.

As a US subsidiary of an international Fortune 500 company, Berlex is proud to offer competitive salaries and a generous benefits package. To apply, send your CV/resume to: BERLEX, HUMAN RESOURCES EMPLOYMENT, 15049 SAN PABLO AVE., RICHMOND, CA 94804-0099. Principals only, please. EOE.

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## Research Directors

### Biology & Biochemistry/Biophysics

Research Directors will manage the teams directly involved in the functional areas of Molecular Biology and Biochemistry/Biophysics. Each position requires a Ph.D. and/or MD in the life sciences and at least 5 years of industry experience including management of a research team. Qualified candidates will possess a proven record of innovative scientific achievement and will be expected to maintain superior standards of integrity in both science and business. They will have excellent organizational, team building and written/verbal communications skills. Expertise in nucleic acid binding compounds and/or transcriptional regulation is highly desirable. (Job# SC1206-RD)

## Scientists

To lead small teams in the study of transcriptional regulation of specific disease-associated genes and to develop biological assays to characterize the effects of DNA-binding drugs on gene expression. Qualified candidates will possess a Ph.D. with relevant post-doctoral experience and a strong background in molecular biology with specific emphasis on the regulation of gene expression. (Job# SC1206-S)

## Senior Research Associate/ Research Associate

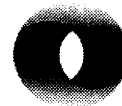
Assist with the design and optimization of biochemical assays for high-throughput screening applications. Requires a BS/MS in biological sciences and a minimum 3-5 experience in molecular biology or a related field. High-throughput screening experience is highly desirable. (Job# SC1206-RA)

## Postdoctoral Fellows

To analyze the transcription regulation of a specific disease-associated gene and to explore the use of yeast as a model system to characterize the effects of DNA-binding molecules on gene expression. Ph.D. in molecular biology or related field and relevant research experience required. (Job# SC1206-PD)

*We offer attractive compensation, full medical benefits and generous equity participation in a challenging research environment that recognizes and rewards achievement. To apply, please send resume to:*

**Genelabs Technologies, Inc.**  
**Human Resources Dept.**  
**Attention Job#**  
**505 Penobscot Drive**  
**Redwood City**  
**CA 94063**  
**Fax: (415) 368-0709**  
**EOE**



**GENELABS  
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## THE UNIVERSITY OF CALIFORNIA AT BERKELEY

### Tenure-track Professor Faculty Position in Systems and/or Cognitive Neuroscience and Director of the Center for Neuroscience

We seek a senior neuroscientist to join an active neuroscience community to lead and help build a newly endowed Center for Neuroscience. Research emphasis is one of several broad areas of neuroscience, including mechanisms of learning and memory; dynamic properties, imaging, and computational analysis of neural circuits, networks, and systems; neural basis of behavior and perception; or human cognitive function. Completed applications must be received by March 1, 1997. The appointment can commence July 1, 1997.

Ph.D. and/or M.D. scientists should have demonstrated excellence, originality, and productivity in research as well as a strong interest in undergraduate and graduate education.

Applications should include a curriculum vitae, bibliography, and a brief description of research accomplishments; a two-page statement of research objectives and teaching interest; and reprints of the three most significant publications. Arrange to have three letters of reference sent to the address below on your behalf. Send applications to:

**Administrative Assistant, Center for Neuroscience Search  
University of California, Berkeley  
Department of Molecular and Cell Biology  
142 LSA #3200  
Berkeley, CA 94720-3200**

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

## UNIVERSITY OF MINNESOTA Biological Sciences Graduate Programs

### *A great combination...*

At the University of Minnesota a world-class, Big 10 research university and a world-class metropolitan area come together. In addition to excellent graduate programs that are student-focused and cover the spectrum of the biological sciences, you'll ALSO enjoy a cosmopolitan culture, beautiful nature, and our 10,000 lakes.

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Launch your career in an unparalleled environment. See us on the World Wide Web to learn more about our comprehensive menu of graduate programs in the biological sciences.

<http://www.cbs.umn.edu/gp>

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**Pasteur Mérieux Connaught** is the world's largest vaccine manufacturer and a member of the Rhône-Poulenc global family of companies. **Pasteur Mérieux Connaught Canada** is Canada's leading vaccine supplier and the nation's largest fully integrated biotechnology research company. Currently, we have a challenging opportunity for a:

## DEVELOPMENT SCIENTIST

Your innovative insights will be the primary force behind efforts to develop, optimize and scale up processes for new products, as well as improve existing products. You will supervise the technical staff and lead development studies. A strong scientific background in protein biochemistry and biotechnology is required, as is knowledge of GMP and immunology. Additionally, you must be familiar with aseptic and protein-characterization techniques. Keen abilities in project-management and planning/scheduling are also essential.

The company offers a competitive salary and benefits package. Qualified candidates should forward their resumes in confidence to:

**PASTEUR MÉRIEUX CONNAUGHT CANADA  
Attention: Teresa DeRosa, Human Resources  
1755 Steeles Avenue West  
North York, Ontario M2R 3T4  
FAX: (416) 667-9391**

*We want to thank all applicants, however, only those under consideration will be contacted.*

 **PASTEUR MÉRIEUX CONNAUGHT**  
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The Ares Serono Group is a pioneering organization widely recognized for turning specific challenges into achievements. At Ares Advanced Technology, the U.S. R&D Arm of the Ares Serono Group, we employ state-of-the-art methods in Structural Biology, Cell Biology, Molecular Biology and Protein Chemistry to discover and evaluate new biopharmaceutical agents of clinical importance. The exciting, ongoing success of our product portfolio and research projects has triggered the need to add gifted individuals to our staff. Financial stability, innovative products, an entrepreneurial environment and our emergence as a fully integrated company means Ares Advanced Technology can offer you what no one else can: The Best of Biotech.

### PRINCIPAL INVESTIGATOR Molecular Biology

As a member of our Molecular Biology Department, you will initiate and lead programs in cloning and eukaryotic expression for the discovery and production of novel therapeutic proteins. You should be a highly motivated, self-reliant individual with extensive hands-on experience in mammalian expression systems. Requires a PhD with a minimum of 2-4 years of postdoctoral work. Expertise in general molecular biology techniques is essential, as is a broad knowledge of transcription/gene regulation/promoters, and post-transcriptional processes. Success in independent research and the ability to work as part of a team is required. Reference Dept. MB74

### SCIENTIST Experimental Therapeutics

This candidate will be responsible for in vitro biologic evaluation of novel compounds such as peptides, small organic molecules, and recombinant molecules in the immunology, oncology and endocrinology therapeutic areas. Duties will include development and utilization of assays for immunodetection, cell proliferation, cell surface marker expression (FACS), signal transduction, cytokine expression and lymphocyte functions. Candidate will be expected to conduct experiments in an independent and well designed manner and to analyze results and provide written reports of the results. Requires a B.S. in biological sciences or related areas with 4+ years' experience in immunology/oncology or a cell biology related discipline. Reference Dept. ET73

For consideration, please forward your CV to  
Ares Advanced Technology, Inc., Human Resources,  
280 Pond Street, Randolph, MA 02368.  
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## RESEARCH SCIENTIST

Merck Research Laboratories in Rahway, New Jersey is seeking a talented scientist to study the regulation of LH release both in vitro and in vivo. Research will include GnRH receptor binding, dimerization, desensitization and internalization as well as signal transduction which leads to the release of LH. In addition, the selected candidate will establish a hypothalamic cell culture system to study the regulation of GnRH secretion.

Applicants should have a Ph.D. in Biochemistry, Physiology, or Pharmacology with strong background in endocrinology and research experience in peptide hormone action including receptor binding and signal transduction mechanism plus at least two years of postdoctoral training. We will also consider postdoctoral fellow who has the ability to do independent basic research.

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 with the names of three references to: **Merck Research Laboratories, Human Resources, AD #12, P.O. Box 2000, RY80A-3, Rahway, NJ 07065.** EOE/AA/VH/Employer.



The Laboratory of Molecular Cell Biology, National Cancer Institute invites applications for a Tenure Track Principal Investigator position in the area of the molecular biology of eukaryotic chromosomes and the cell nucleus. Under the direction of Dr. Carl Wu, the LMCB fosters an interactive research environment and the use of diverse experimental approaches and model systems. Applicants should have a Ph.D. or M.D. degree, a strong publication record, and demonstrated potential for imaginative research. Salary will be commensurate with education and experience with a range between \$45,000 and \$65,000. Send a curriculum vitae, brief statement of research interests, and three letters of recommendation by Jan. 31, 1997 to:

**Ms. Mary Daniels,**  
**Executive Secretary**  
**Search Committee, LMCB, NCI**  
**Building 37, Room 5A13**  
**36 Convent Drive, MSC 4255**  
**Bethesda, MD 20892-4255**

*The National Cancer Institute is an Equal Opportunity Employer.*

## NATIONAL CANCER INSTITUTE DIVISION OF CANCER TREATMENT, DIAGNOSIS AND CENTERS CANCER DIAGNOSIS PROGRAM ROCKVILLE, MARYLAND

Opening Date: November 12, 1996

Closing Date: January 13, 1997

Announcement Number: CA-96-0320

### ASSOCIATE DIRECTOR, CANCER DIAGNOSIS PROGRAM

The Cancer Diagnosis Program, Division of Cancer Treatment, Diagnosis and Centers (DCTDC), National Cancer Institute (NCI), National Institutes of Health, is seeking candidates for the position of Associate Director. The selected scientist will report to the Director, DCTDC. The Associate Director will work with NCI's senior leadership, its advisory groups, other organizational units of the Institute and private industry in conceptualizing and implementing NCI's expanded efforts in the discovery, development and clinical testing of novel molecular diagnostic tests and devices for cancer. The selected scientist will also be responsible for the day-to-day scientific management of the program which includes scientific evaluation of grant and cooperative agreement applications and contract proposals in response to the programmatic initiatives of the NCI. The Associate Director will also be responsible for providing scientific leadership to the program staff, setting priorities, establishing policies to allow efficient and effective implementation of program objectives, managing personnel, advising the Director, DCTDC, and the Director, NCI, regarding scientific opportunities in cancer diagnosis, coordinating preparation of relevant reports and budget justifications and making presentations. In addition, the Associate Director interacts with other federal agencies, professional organizations and the public on issues related to cancer diagnosis. The extramural research funded supports a broad program of activities of cancer diagnosis. As a recently established program, it is expected that this major area of scientific opportunity will grow to a funding level of approximately \$100 million dollars in the next few years.

This is a Civil Service position in the Senior Executive Service (SES), with annual salary compensation between \$100,526 to \$122,688 per annum. (Applicants alternatively may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service). The individual selected, if not presently in the SES, must serve a one-year probationary period.

Applicants must meet the minimum qualifications requirements. Applicants must further meet established mandatory professional/technical and managerial/executive requirements. Applicants will be further evaluated on the degree to which they possess additional desirable qualifications in the area of professional/technical qualifications. Managerial/executive qualifications, scientific reputation/peer recognition, training and education, and honors and awards. A copy of the requirements may be obtained by contacting Ms. Toni McKeown in the Human Resources Management and Consulting Branch, NCI, at (301) 402-2812. Applications/resumes are to be sent to:

**MS. TONI MCKEOWN (0320)**  
**NATIONAL CANCER INSTITUTE**  
**HUMAN RESOURCES MANAGEMENT**  
**AND CONSULTING BRANCH**  
**6120 EXECUTIVE BOULEVARD**  
**EPS/ROOM 550**  
**ROCKVILLE, MARYLAND 20852**



A current curriculum vitae and bibliography must accompany all applications/ resumes for entrance into the SES. In addition, applicants are encouraged to complete the DHHS Applicant Background Survey form (completion of this form is voluntary). You may contact Ms. McKeown on the above number to obtain a copy of this form. Applications will be accepted for a period of 60 days following the opening date of the announcement.

Public Health Service commissioned Officers wishing to enter the SES must follow the above procedures. Officers interested in performing the duties of the position *within the Commissioned Corps* may submit a resume to the above address.

NCI is an Equal Opportunity Employer

## POSITIONS OPEN

### CHAIR AND PROFESSOR OF BIOLOGICAL SCIENCES University of Maryland

The College of Life Sciences at the University of Maryland-College Park invites applications for the position of **PROFESSOR** and **CHAIR** of the new Department tentatively called Biological Sciences. This Department is being formed from a merger of portions of our Zoology and Plant Biology Departments. It consists of 33 tenure-track faculty and four full-time instructors with research and teaching interests in areas such as behavior, cell biology, developmental biology, ecology, evolution, genetics, neurobiology, and physiology. The department has an operating budget in excess of \$3 million, \$2.5 million in external funding, and is a key participant in the undergraduate Biological Sciences program with 2,000 majors. We seek an individual to provide academic and administrative leadership of the teaching and research programs in this vibrant new department. The successful candidate will also be expected to continue his or her research program in their specific area of expertise. Candidates must have an earned doctorate in an appropriate area of biology and have internationally recognized academic accomplishments. Candidates should send a letter of application accompanied by a curriculum vitae to the address below. For best consideration, completed applications should be received by January 15, 1997. The earliest anticipated starting date for this position is July 1, 1997. Applications or nominations should be sent to: **Biological Sciences Search Committee, College of Life Sciences, Room 1118 Symons Hall, University of Maryland, College Park, MD 20742-5815.** Additional information is available on the World Wide Web at <http://www.life.umd.edu/positions>.

*The University of Maryland is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.*

### CELL BIOLOGIST DEVELOPMENTAL BIOLOGIST

The Biology Department of Hobart and William Smith Colleges (HWS) invites applications for two tenure-track **ASSISTANT PROFESSOR** positions. 1) Cell Biologist—individuals with experience in eukaryotic cell biology are encouraged to apply. Responsibilities include teaching a course in cell biology, participating in the genetics courses and an introductory biology course, and contributing to the Colleges' general curriculum. 2) Developmental Biologist—responsibilities include teaching a course in developmental biology and at least one of the following courses with a molecular perspective: physiology, microbiology, or behavior. In addition, the candidate will contribute to introductory biology courses and the Colleges' general curriculum. All candidates are expected to demonstrate excellence in teaching and implement a research program that involves undergraduates. Competitive start-up funds are available. Candidates must have the Ph.D. degree by the starting date. Hobart College for men and William Smith College for women are coordinate residential colleges that share a campus on Seneca Lake in upstate New York. The Biology Department has recently received a four-year grant from the Howard Hughes Medical Institute and a new building for biology and chemistry was completed in 1994. Applicants should indicate which position(s) they are applying for and send a curriculum vitae, a statement of teaching philosophy, a statement of research interests, official transcripts for all degrees received, and three letters of reference to: **Dr. James Ryan, Biology Department, Hobart and William Smith Colleges, Geneva, NY 14456-3397.** To ensure full consideration, applications should be received by January 10, 1997. HWS is an Affirmative Action/Equal Opportunity Employer and encourages women, minorities, and disabled persons to apply.

### SAN JOSE STATE UNIVERSITY Faculty Positions in Science Education

The College of Science seeks: 1) an **ASSISTANT** or **ASSOCIATE PROFESSOR** with expertise in both science education and atmospheric science, geology, or physics; and 2) an **ASSISTANT PROFESSOR** with expertise in science education, human evolution, and information technology. Both tenure-track positions begin August 1997. A Ph.D. is required. At least 50% of effort will be in the Science Teacher Preparation Program.

Appointment and science teaching will be in the appropriate science department. Further information available at: <http://www.MASTEP.sjsu.edu> or write to: **Dr. Jean Beard, College of Science, San Jose State University, San Jose, CA 95192-0099.** San Jose State University is an Equal Opportunity/Affirmative Action/Title IX Employer.

## POSITIONS OPEN

### TENURE-TRACK FACULTY POSITION SIGNAL TRANSDUCTION TEXAS A&M UNIVERSITY Department of Medical Biochemistry and Genetics University Health Science Center and Center for Cancer Biology and Nutrition Alkek Institute of Biosciences and Technology

The position will be housed in the new 11-story Alkek Institute of Biosciences and Technology (IBT) research tower located in the Texas Medical Center, Houston, Texas. The IBT is composed of groups of faculty with appointments in academic units in Texas A&M University doing research in DNA structure and genomic research, extracellular matrix biology, skeletal and infectious disease, structural biology, and bioinformatics that bridges medicine and agriculture at the cell and molecular levels with interactions between the Texas Medical Center and the Texas A&M University System. The Center for Cancer Biology and Nutrition focuses on mechanisms of signal transduction whose dysfunction may be involved in cancer and the impact of nutrients on these processes at the molecular level.

Applications will be considered for a tenure-track position at the **ASSISTANT PROFESSOR** level. Applicants must have a Ph.D., D.V.M., or M.D. degree; exhibit research contributions in cell, molecular, and/or developmental biology; and have potential to develop an independent teaching and research program related to cancer biology and nutrition. Applicants with background and interests in molecular cell biology, developmental biology, molecular genetics, structural biology, or molecular plant or food sciences relevant to cancer and other diseases are encouraged to apply. More information about the Alkek Institute of Biosciences and Texas A&M University can be found on the internet at <http://keck.tamu.edu>.

Interested individuals should send a letter of application and curriculum vitae, and have three letters of reference sent to: **Dr. Wallace L. McKechnie, c/o Ms. Diana Taylor, Department CCBN, Institute of Biosciences and Technology, Texas A&M University, 2121 West Holcombe Boulevard, Houston, TX 77030-3303.** Texas A&M University is an Affirmative Action/Equal Opportunity Employer.

The Biology Group at the University of Toronto at Mississauga (Erindale College) invites applications for a full-time appointment at the **TUTOR** level. The appointment would be effective July 1, 1997. Applicants must have a Ph.D. degree and demonstrated excellence in teaching. The successful candidate will be expected to be innovative in undergraduate teaching, to coordinate biology laboratories, and to counsel undergraduates. Salary will be commensurate with qualifications and experience. The position is conditional on budgetary approval. Applications, including a curriculum vitae, brief statement of teaching ideas and interests, and three letters of reference, should reach **Professor Darryl Gwynne, Chair, Search Committee, Biology Group, Erindale College, University of Toronto at Mississauga, Mississauga, Ontario L5L 1C6 Canada** by January 31, 1997. In accordance with Canadian Immigration requirements, this advertisement is directed toward Canadian citizens and permanent residents of Canada. In accordance with its Employment Equity Policy, the University of Toronto encourages applications from qualified women or men, members of visible minorities, aboriginal peoples and persons with disabilities.

**CHAIR, Natural Sciences.** Ph.D.; must be tenureable in Division discipline. Qualifications: teaching excellence, outstanding scholarship, administrative experience. Teaching and administrative responsibilities required; 12-month contract; five-year appointment, starting July 1997.

Submit application letter, curriculum vitae, and three recommendation letters to: **Dr. T. Melton, Chair, Natural Sciences Division Search, St. Norbert College, De Pere, WI 54115.** Consideration begins December 15, 1996. St. Norbert College is a comprehensive, regional, liberal arts institution associated with the Norbertine Order. Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### ASSISTANT OR ASSOCIATE PROFESSOR THE OHIO STATE UNIVERSITY Pharmaceutics and Pharmaceutical Chemistry

Applicants for this **TENURE-TRACK** position should have a Ph.D. degree in pharmaceutics, pharmaceutical chemistry, or a closely related field of biomedical or molecular life sciences research. Postdoctoral experience is desirable. Preference will be given to applicants who have a professional degree in pharmacy and teaching experience, especially in a college of pharmacy. To complement existing strengths in the division, a research program is preferred at the molecular or cellular level in the areas of targeted drug delivery, gene therapy, controlled release, and drug delivery systems.

Review of applications will begin February 1, 1997; the position becomes available October 1, 1997. Applicants should provide a letter of application, a curriculum vitae, the names and addresses of three references, and a statement of research interests and professional goals. Please contact:

**Dr. William L. Hayton, Chair  
Division of Pharmaceutics and  
Pharmaceutical Chemistry  
College of Pharmacy  
The Ohio State University  
500 West 12th Avenue  
Columbus, OH 43210-1291**

*The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disabilities are encouraged to apply.*

**ASSISTANT PROFESSOR:** Biological Control, 12-month tenure-track appointment, in the Department of Entomology. Ph.D. or equivalent doctorate in entomology with experience in biological control. Develop research and teaching program (70:30) focused on arthropods as agents or targets of biological control, by discovering new biological control agents, evaluating their potential for success, and implementing control programs in agricultural or natural ecosystems in the Upper Midwest, and addressing the theoretical aspects of biological control. Teach two courses per academic year, one annually in arthropod biological control, and an interdisciplinary course in biological control and a course dependent upon appointee's expertise in alternate years. Detailed position description available at <http://www.entagri.umn.edu/> or by mail. Send by 17 February 1997 a letter of application, statement of goals, curriculum vitae, transcript, up to three examples of scholarly works, and names of five references to: **D. W. Ragsdale, Chair, Search Committee, Department of Entomology, 219 Hodson Hall, University of Minnesota, St. Paul, MN 55108.** Telephone: 612-624-6771; FAX: 612-625-5299. Affirmative Action/Equal Opportunity Employer.

### ASSISTANT PROFESSORS OF BIOLOGY

Indiana University of Pennsylvania (IUP) invites applications for two tenure-track **ASSISTANT PROFESSOR** positions in the Department of Biology to begin fall 1997. Plant Biologist with experience using cell/molecular techniques—developmental biologist preferred. Geneticist with experience in molecular biology—human genetics preferred. Doctoral degree required. Duties include teaching undergraduate majors' introductory courses and participating in departmental general course offerings. Other duties are developing undergraduate and/or M.S. graduate courses in area of expertise, research, student advisement, and service. Opportunity to participate in environmental health and interdisciplinary biochemistry programs. Send curriculum vitae, statements of teaching and research interests, transcripts, and three reference letters to: **Plant Biologist or Geneticist Search Committee, Department of Biology, IUP, Indiana, PA 15705.** Deadline for receipt of applications is January 15, 1997. IUP is an Affirmative Action/Equal Opportunity Employer. Web site: <http://www.iup.edu/bi/>.

**THREE TENURE-TRACK** positions at Texas A&M University. Emphasis: science and technology journalism. Ph.D. or equivalent. Pursue research on communicating science and technology; teach in M.S. program in this area and undergraduate journalism program; perform service. Assistant professor level anticipated; starting date negotiable. Send letter, curriculum vitae, and names and addresses of three references to: **Dr. Barbara Gastel, Chair, Search Committee, Department of Journalism, Texas A&M University, College Station, TX 77843-4111.** Affirmative Action/Equal Opportunity Employer.



**Anticipated ASSISTANT  
PROFESSOR, Institute for  
Environmental Studies**

The Institute for Environmental Studies at Louisiana State University is seeking to fill an assistant professor, tenure track position (nine months academic appointment) in our interdisciplinary program. IES has strong research and teaching programs in environmental science, including toxicology, and environmental planning and management. IES is one of eight academic research units that form the Center for Coastal, Energy and Environmental Resources.

The Institute is particularly interested in individuals with a strong disciplinary foundation in their field, with an interest in applying their research and teaching skills to solving environmental problems. IES has close ties and interacts with both industry and governments in addressing environmental issues of importance to Louisiana and the nation. Applicants are requested to send a copy of their curriculum vitae, the names of three references, plus a brief description of their research goals and experience directly to the **Search Committee Chair, Institute of Environmental Studies, 42 Atkinson Hall, Ref#014247, Baton Rouge, LA 70803**. Applications will be accepted until March 15, 1997, or until the position is filled. At the present time, IES seeks individuals with interest in one of the following areas:

**Molecular/Genetic Epidemiologist**

Applicants should have a Ph.D. in epidemiology, molecular genetics or a related field with biostatistical expertise and evidence of research productivity as reflected by peer-reviewed publications and demonstrated ability to attract extramural research funding. This position presents an exciting opportunity for the successful candidate to conduct molecular epidemiological studies on human populations and/or ecological model systems. Application of parametric and non-parametric methods is essential and experience in population analysis of molecular polymorphic markers is also desirable. The incumbent will be expected to develop a course in environmental epidemiology with related statistical applications as well as techniques relating to biomarker evaluation and will have an opportunity to participate in the LSU interdepartmental program in toxicology.

**Environmental Systems Modeler**

Applicants should have a Ph.D. in ecology/biology, natural resource management, statistics, mathematical modeling, systems science, resource economics with evidence of research productivity as reflected by peer-reviewed publications and demonstrated ability to attract extramural research funding. The incumbent should have extensive training and experience in mathematical and system processes, empirical data analysis and/or spatial statistics applied to complex environmental systems. This individual will be expected to develop at least one graduate course and a research program in computer-based mathematical modeling. The successful candidate would be expected to work in the area of natural resources, ecological health and risk, spatial modeling, environmental systems management, system dynamics or other transdisciplinary areas which might include economics. This position presents an exciting opportunity for the successful candidate to conduct systems research across a number of disciplines.

*LSU is an equal opportunity/affirmative action employer*



## Texas A&M University at Galveston

### Vice President and Chief Executive Officer

Texas A&M University invites nominations and applications for the position of Vice President and Chief Executive Officer (VP and CEO) of the Texas A&M University at Galveston campus. The holder of this position is the senior administrative officer and chief academic officer of the campus, comprising 85 faculty members and 1,200 undergraduate students. Texas A&M University at Galveston serves as the coastal campus of Texas A&M University and includes administration of one of six maritime academies in the nation. Included at Galveston are three campus locations, the Training Ship *Texas Clipper II*, and a fleet of research and training vessels. The campus also houses the Texas Institute of Oceanography. The VP and CEO of Texas A&M University at Galveston will report to the Executive Vice President and Provost of Texas A&M University.

Texas A&M University at Galveston opened its doors more than 30 years ago as a special purpose institution offering undergraduate programs in maritime and marine oriented studies. The institution has established a goal of becoming the leading marine and maritime institution on the Gulf of Mexico.

**• THE MAJOR RESPONSIBILITIES OF THE POSITION ARE:**

- Administer the academic and non-academic activities of Texas A&M University at Galveston.
- Function as a key member of the leadership team of Texas A&M University.
- Implement the policies of Texas A&M University on the Galveston campus.
- Represent programs on the Galveston campus at local, state, national, and international levels.
- Oversee the selection, tenure, and promotion of faculty.
- Oversee the recruitment and admissions of students.
- Oversee academic and physical plant operations.
- Oversee the development of budgets and the management of resources supporting these budgets.

**• THE MAJOR QUALIFICATIONS FOR THE POSITION ARE:**

- A strong record of academic accomplishment.
- Proven administrative capabilities and experience.
- A commitment to higher education in the form of teaching, scholarship, research, and faculty development.
- Commitment to cultural, ethnic, and gender diversity.
- Excellent interpersonal, speaking, and writing skills.
- Ability to provide visionary leadership and to manage a complex organization.

Texas A&M University at Galveston affirms diversity as essential to its mission; is an equal opportunity, affirmative action employer/educator; and encourages applications and nominations of women and minorities. The Search Committee will begin the screening of candidates for a VP & CEO on Friday, February 14, 1997. Applications, nominations, and names of references are encouraged prior to that date. Further information is available upon request. Nominations and applications should be sent to:

**Dr. Fuller Bazer**

**Professor and O.D. Butler Chair in Animal Science**

**Director, Institute of Biosciences and Technology**

**2121 West Holcombe Boulevard**

**Suite 202**

**Houston, Texas 77030**

**Fax: (713) 677-7725**

**E-mail: fbazer@vetmed.tamu.edu**

Please be advised that under Texas law, names and other information concerning applicants or nominees may be subject to disclosure upon request.

## POSITIONS OPEN

### FACULTY POSITION MOLECULAR BIOLOGY OF SKIN Cardinal Bernardin Cancer Center Loyola University Medical Center

Our newly formed Skin Cancer Research Program has an immediate opportunity for an **ASSISTANT PROFESSOR** faculty member. Areas of interest include: The role of HHV-8 in Kaposi's Sarcoma (*American Journal of Pathology*, 148:1323, 1996) and *The New England Journal of Medicine*, in press, 1996); the genotype and phenotype of T-cells that cause psoriasis (*Journal of Clinical Investigation*, 98:1878, 1996); the role of professional (*Immunology Today*, 15:464, 1994) and non-professional APCs (*Science*, 273:1479, 1996) in hyperproliferative disorders of skin, and the regulation of apoptosis in skin diseases. Extensive use of human skin SCID mouse chimeric animal models is anticipated to focus on lymphoma and malignant melanomas.

You will be provided with a laboratory and office facilities within the new 125,000-square-foot Cancer Center building, and a competitive compensation and start-up funds package. Opportunities for teaching at the graduate level are available within four graduate programs at the Medical Center.

Interested applicants with an M.D. and/or Ph.D. should submit a curriculum vitae, three professional references, and a description of current and future research interests by January 31, 1997 to: **Brian J. Nickoloff, M.D., Ph.D., Program Director, Skin Cancer Research Program, Cardinal Bernardin Cancer Center, Loyola University Medical Center, 2160 South First Avenue, Maywood, IL 60153-5385.** An Equal Opportunity Employer/Educator.

### ASSISTANT PROFESSOR MOLECULAR BIOLOGY

The Department of Biological Sciences at Ohio University invites applications for an Assistant Professor nine-month **TENURE-TRACK** position in molecular biology. Applicants are required to have a Ph.D. Relevant postdoctoral experience and a strong research background are highly desirable. Outstanding individuals who can complement one of the existing research programs in the areas of endocrinology and metabolism, exercise and muscle biology, microbiology, evolutionary biology and ecology, or neurobiology will be considered. Individuals with research interests in molecular endocrinology or molecular genetics are especially encouraged to apply. The successful candidate will be expected to maintain a vigorous research program; teaching responsibilities include courses in molecular biology and a course in the area of specialization. Competitive salary and excellent benefit package. Applicants should send a curriculum vitae and a summary of research interests and goals and arrange to have at least three letters of recommendation sent to: **Jean Witkowski, Department of Biological Sciences, Ohio University, 107A Irvine Hall, Athens, OH 45701.** Application deadline is January 6, 1997; anticipated start date is September 1997. Information about the department and university may be found at: <http://cneuro.zool.ohiou.edu>.

Ohio University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are urged to apply.

The Department of Biochemistry and Biophysics of the University of Pennsylvania is searching for a **RESEARCH ASSISTANT PROFESSOR** in the area of molecular mechanism of Fragile X syndrome. The appointee will be expected to participate in an intensive team effort of research on the molecular and genetic basis of Fragile X mental retardation and on the Fragile X protein family. Candidates should forward their curriculum vitae and summary of research interests, and should arrange for three letters of recommendation to be sent to: **Ms. Ruth Keris, Staff Assistant, Department of Biochemistry and Biophysics, University of Pennsylvania School of Medicine, Philadelphia, PA 19104-6059.** The deadline for applications is January 31, 1997. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*

### EVOLUTIONARY MOLECULAR GENETICIST

**TENURE-TRACK** Assistant Professorship to teach genetics and molecular and evolutionary biology. Ph.D. required. Available September 1, 1997. For detailed descriptions and instructions, contact: **Department of Biology, California State University, 9001 Stockdale Highway, Bakersfield, CA 93311.** Telephone: 805-664-3089; FAX: 805-664-2040; Email: [epedroza@csuabak.edu](mailto:epedroza@csuabak.edu). *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN



### Vollum Institute

### OREGON HEALTH SCIENCES UNIVERSITY FACULTY POSITIONS

The Vollum Institute invites applications for faculty positions at any rank equivalent to **ASSISTANT, ASSOCIATE, or FULL PROFESSOR**. Applicants should have a strong record of research in any area of neurobiology and/or developmental biology. In addition to having a strong research program, applicants are sought who will complement existing Institute programs in neurotransmitter/hormone receptors and transporters, ion channel structure and function, synaptic transmission, signal transduction and mechanisms, and transcriptional regulation. By January 15, 1997, applicants should submit curriculum vitae, brief statement of research interests, reprints, and the names of three references to:

**Dr. Michael Forte**  
Chair, Faculty Search Committee  
Vollum Institute, L474  
Oregon Health Sciences University  
3181 SW Sam Jackson Park Road  
Portland, OR 97201-3098

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

### ASSISTANT PROFESSOR CLINICAL CHEMISTRY

Cleveland State University, in association with the Cleveland Clinic Foundation, invites applications for a tenure-track **FACULTY** position at the level of Assistant Professor in Clinical Chemistry for fall 1997. The individual will participate in the graduate Clinical Chemistry program in terms of research, teaching, and program development. We are seeking a dynamic individual who will help build a strong research base within the Department of Chemistry, which may include collaborative research with the Cleveland Clinic Foundation. The applicant must have a Ph.D. in clinical chemistry, biochemistry, chemistry, molecular biology, or related field. The successful applicant will develop a nationally competitive research program in a biomedically related area. Additionally, the successful applicant will teach undergraduate chemistry courses and graduate courses in the Clinical Chemistry program. Preference will be given to individuals with postdoctoral experience and research and teaching areas that complement departmental expertise. The Department of Chemistry offers Bachelor's, Master's, and Ph.D. degrees; the latter are administered by the Cleveland Clinic. The Clinical Chemistry program at Cleveland State is one of only two ComACC-accredited doctoral programs within chemistry departments in the United States. Review of applications will begin on January 31, 1997 and continue until the position is filled. Send curriculum vitae, description of research plans, a statement of teaching experience and/or interests, and copies of undergraduate and graduate transcripts, and arrange for three letters of recommendation to be sent to: **Dr. David Anderson, Chair, Clinical Chemistry Search Committee, Department of Chemistry, Cleveland State University, East 24th and Euclid Avenue, Cleveland, OH 44115.** Telephone: 216-687-2453; FAX: 216-687-9298. *Cleveland State University is an Affirmative Action/Equal Opportunity Employer committed to nondiscrimination. Minorities/Females/Disabled/Veterans encouraged.*

### ANIMAL PHYSIOLOGIST

The Biology Department, Indiana University (IU) Southeast, seeks a broadly trained physiologist with a strong background in vertebrate physiology for a tenure-track **ASSISTANT PROFESSORSHIP** to begin fall of 1997. Candidate must have a Ph.D., strong commitment to teaching at the undergraduate level, and ability to develop an active research program. The successful candidate will teach an upper-level course in comparative physiology and introductory sections in human physiology, and may develop courses in a related specialty. Research space, small animal facilities, and start-up funds will be available. Postdoctoral research preferred. Send curriculum vitae, copy of graduate and undergraduate transcripts, statement of teaching philosophy and professional goals, and three letters of recommendation by January 6, 1997 to: **Dr. David Winslow Taylor, c/o Human Resources, IU Southeast, Box 9622, 4201 Grant Line Road, New Albany, IN 47150.** *Indiana University Southeast is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### BIOLOGY: FACULTY POSITIONS Cell/Molecular Biology Organismal/Environmental Biology

The Department of Biology of Cleveland State University invites applications for **TWO POSITIONS**, one in each of the following research areas: 1) Cell and Molecular Biology; and 2) Organismal Biology/Environmental Biology. We seek to fill one position at the level of Associate or Full Professor and another at the level of Assistant Professor. All applicants must hold a Ph.D. in the appropriate field. Successful candidate at the Associate/Full level must have external funding and will be asked to serve as director of the graduate program. Applicants at the Assistant level must have at least two years of postdoctoral experience and demonstrate the potential for excellence in teaching and research. The successful candidate at the Assistant level will be expected to establish an independent, funded research program. Preference will be given to candidates with current or pending research funding. Successful candidates in both positions are expected to teach and develop undergraduate and graduate courses in their areas of expertise. The Department of Biology at Cleveland State University offers B.S. and M.S. degrees in biology, and a Ph.D. in regulatory biology through a joint program with the Research Institute of the Cleveland Clinic Foundation. Candidates must submit a curriculum vitae, a description of research plans and teaching interests, and three letters of recommendation by February 15, 1997 to: **Dr. Donald Lindmark, Chair, Faculty Search Committee, Department of Biology, Cleveland State University, East 24th and Euclid Avenue, Cleveland, OH 44115.** For additional information, consult the Department's World Wide Web page: <http://www.asic.csuohio.edu/biology/>, or contact **Dr. Lindmark, Telephone: 216-687-2398; Email: [lindmark@biology.csuohio.edu](mailto:lindmark@biology.csuohio.edu).** *Cleveland State University is an Affirmative Action/Equal Opportunity Employer committed to nondiscrimination. Minorities/Females/Disabled/Veterans encouraged.*

### THE UNIVERSITY OF CHICAGO

The University of Chicago Department of Radiation and Cellular Oncology has full-time **FACULTY** positions available for Board-certified or Board-eligible radiation oncologists with basic and clinical research interest(s). Areas of clinical investigation include: concomitant radiochemotherapy, monoclonal antibody therapy, biological response modifiers, neutron radiotherapy, decision analysis in oncology, as well as investigation of organ-specific disease sites. Research laboratory interests include molecular aspects of radioresistance, cell cycle regulation, signal transduction, and correlation of basic laboratory parameters with clinical outcome. New investigation on gene therapy will be initiated. The Department offers excellent start-up funds and continuing support as well as protected research time for qualified candidates. Academic appointments are at the instructor, assistant professor, or professional rank and are based on individual qualifications and experience.

The University offers a highly competitive compensation and fringe benefit package to qualified candidates. For more information, please contact:

**Ralph R. Weichselbaum, M.D.**  
Professor and Chairman  
The University of Chicago  
Department of Radiation and Cellular Oncology  
5841 South Maryland Avenue, MC0085  
Chicago, IL 60637  
FAX: 312-702-0610

*The University of Chicago is an Equal Opportunity Employer. Women and minorities are encouraged to apply.*

### TENURE-TRACK ASSISTANT/ASSOCIATE PROFESSOR POSITIONS

Two **TENURE-TRACK** Assistant/Associate Professor positions are available in the Department of Molecular Genetics and Biochemistry, University of Pittsburgh, School of Medicine for candidates with a Ph.D. or M.D. and two or more years of postdoctoral training in molecular virology. Successful candidates are expected to develop an independent and productive research program. Individuals with research interests in molecular virology, viral immunology, gene expression, or gene vectors are especially encouraged to apply. Send curriculum vitae, a statement of research interest, and the names of three references to: **Dr. Joseph C. Glorioso, Chairman, Department of Molecular Genetics and Biochemistry, University of Pittsburgh School of Medicine, E1240 Biomedical Science Tower, Pittsburgh, PA 15261.**

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



## RESEARCH SCIENTISTS

**Gillette Research Institute**, a division of The Gillette Company, is seeking qualified candidates to join our multidisciplinary research team:

**MD or MD/Ph.D.** with 5 years of research experience in clinical dermatology. Previous experience as a Principal Investigator and knowledge of regulatory issues required.

**Biological & Medical Physicist/Engineer** - Ph.D. with broad fundamental & experimental background. Postdoctoral and/or research experience preferred.

**Polymer/Formulation Chemist** - Ph.D. with fundamental understanding of rheology and structure/function relationships. Postdoctoral/formulation experience preferred.

**Organic Chemist** - Ph.D. medicinal or bioorganic chemist with experience in synthetic & analytical techniques, molecular modeling concepts and biochemistry. Postdoctoral experience preferred.

Gillette Research Institute is located outside Washington, D.C. in a region that includes a wide variety of government, private and academic scientific laboratories. We offer excellent compensation and benefits package. Qualified candidates should forward a resume to:

Gillette Research Institute  
Human Resources Department  
401 Professional Drive  
Gaithersburg, MD 20879

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### ASSISTANT/ASSOCIATE MEMBER

The Molecular Pharmacology and Therapeutics Program at Memorial Sloan-Kettering Cancer Center invites applicants for a position at the Assistant or Associate Member level. The candidate should have a Ph.D. and/or M.D. degree and significant postdoctoral experience. We seek independent investigators with a background of scientific accomplishment who will use forefront molecular and biochemical techniques for the development of new cancer therapies. Start-up support will be provided. Candidates should send their curriculum vitae along with a description of career goals, research objectives, and names of three references by January 1, 1997 to:

**Joseph R. Bertino, M.D.**

**Program Chairman**

**Molecular Pharmacology and  
Therapeutics Program**

**Memorial Sloan-Kettering Cancer Center, Box 78**

**1275 York Avenue**

**New York, NY 10021**

*Memorial Sloan-Kettering Cancer Center is an affirmative action, equal opportunity employer.*

## CANCER PREVENTION RESEARCHER

The H. Lee Moffitt Cancer & Research Institute and the College of Medicine at the University of South Florida are seeking applicants for a tenure-earning Associate or Full Professor faculty position for a laboratory based independent researcher with expertise in translational research. This position will be in the Cancer Prevention Program.

The successful candidate will be a doctoral level (MD or Ph.D.) investigator who will have responsibility for conducting laboratory research in the area of molecular and immunohistochemical markers for the early detection of preneoplastic conditions and early cancer. This research should lead to the design of interventions to target these markers with chemopreventive agents. The successful candidate will also have an established track record of obtaining external funding and five years academic or research experience at, or comparable to, the Assistant Professor level.

H. Lee Moffitt Cancer Center & Research Institute, adjacent to the Health Sciences Center on the University of South Florida's Tampa Campus includes a modern, 162-bed inpatient and ambulatory facility for children and adults, a 25-bed bone marrow transplantation program, a recently established high volume screening program including a fixed site and mobile unit and a new basic research facility.

Send inquiries and current curriculum vitae to Gail Shaw, M.D., Program Leader, Office of Faculty Recruitment, 12902 Magnolia Drive, Tampa, Florida 33612. Applicants must be postmarked by deadline date of January 23, 1997.



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

**University of South Florida College of Medicine**

Moffitt Cancer Center is an Equal Opportunity Employer. The University of South Florida is an Equal Opportunity/Equal Access/Affirmative Action Employer. For disability accommodations please contact Jody Swanson at (813) 975-7894 a minimum of five working days in advance.

## POSITIONS OPEN

### FACULTY POSITION MOLECULAR BIOLOGY

The Department of Cell and Molecular Biology is re-opening a search to fill a tenure-track position beginning July 1, 1997, at the level of **ASSISTANT PROFESSOR**. Applicants must have a Ph.D., at least two years of postdoctoral experience, and a strong publication record. The successful applicant will be expected to establish a vigorous, independent research program and to participate in graduate and undergraduate teaching. We seek applications from individuals whose research addresses basic questions at a molecular level and can interface with the interests of existing faculty. Specific areas include developmental biology, neurobiology, and environmental toxicology. Opportunities also exist for research collaborations and participation in the Molecular and Cellular Biology Interdisciplinary Graduate Program, the Neurosciences Interdisciplinary Graduate Program, and the Tulane Center for Bioclimatological Research. Applicants for the position should send curriculum vitae, a brief statement of research plans, and three letters of recommendation to:

**Dr. Ken Muneoka, Chair**  
Department of Cell and Molecular Biology  
Tulane University  
New Orleans, LA 70118

*Tulane University is an Equal Opportunity/Affirmative Action Employer and encourages minority and female applicants to apply.*

### PLANT EVOLUTIONARY BIOLOGIST Department of Organismic and Evolutionary Biology Harvard University

The Department seeks a comparative biologist whose work addresses the organismic and evolutionary biology of plants. We are interested in an individual whose research emphasizes the evolution of development, genes, or genomes, and who has demonstrated interest and ability in teaching at the undergraduate and graduate levels. The appointment will be to a tenured **PROFESSORSHIP**. Applicants should submit by January 5, 1997 a curriculum vitae, a statement of research and teaching interests, and the names and addresses of three references to:

**Professor Michael J. Donoghue**  
Chairman, Plant Systematics Search Committee  
Department of Organismic and Evolutionary Biology  
Harvard University  
Cambridge, MA 02138

*Harvard University is an Affirmative Action/Equal Opportunity Employer; we encourage applications from women and minority individuals.*

### ASSISTANT/ASSOCIATE PROFESSOR Reproductive Biology, Johns Hopkins University

Applications are invited for a **TENURE-TRACK** position in the reproductive sciences. We seek investigators who use modern biochemical, cellular, and molecular approaches to study basic mammalian reproductive processes including but not limited to development/differentiation, signal transduction, gene regulation, toxicology, and aging. Faculty maintain independent, well-funded research programs, and advise and teach graduate students and fellows. Application deadline: February 1, 1997. Starting date: negotiable. Send curriculum vitae, description of current/future research, and letters from four references to: **Dr. Terry R. Brown, Division of Reproductive Biology, Johns Hopkins University School of Hygiene and Public Health, 615 North Wolfe Street, Baltimore, MD 21205.**

*The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer. Applications are encouraged from women and minority groups.*

### MOLECULAR DEVELOPMENTAL BIOLOGIST

**TENURE-TRACK** position in the Department of Biology at Whitman College beginning in August 1997. Ph.D. required. Teach Molecular Biology and Developmental Biology (both with labs) plus one other course and lab compatible with the biology curriculum, and direct student research. Whitman has a strong commitment to excellence in undergraduate teaching, research, and student advising. Send curriculum vitae, three letters of recommendation, transcripts, and statement of teaching and research interests to: **Professor Earl Fleck, Biology Department, Whitman College, Walla Walla, WA 99362. Telephone: 509-527-5135 or 509-527-5225; FAX: 509-527-5904; Email: fleck@whitman.edu.** Closing date: January 10, 1997. *Equal Opportunity Employer.*

## POSITIONS OPEN

### FACULTY POSITIONS JOHNS HOPKINS UNIVERSITY

The Department of Earth and Planetary Sciences invites applications for one to three tenure-track faculty positions at the **ASSISTANT PROFESSOR** level beginning July 1, 1997, or later. We seek applicants in five areas:

- 1) Geophysics, including but not limited to seismology, geodynamics, mineral physics, and planetary physics;
- 2) Geomicrobiology, including the integration of organic chemistry, biochemistry, and/or microbiology with geologic processes;
- 3) Climate dynamics, including climate-related geophysical fluid dynamics and/or quantitative interpretation of the historic or geologic record of climate change;
- 4) Atmospheric chemistry associated with climate change;
- 5) Tectonics, including the tectonic evolution of basins and/or the integration of tectonics with quantitative geomorphology or hydrogeology.

Applicants should have rigorous training in the quantitative aspects of the geosciences and broad process-oriented interests that would complement existing Departmental programs in solid earth geophysics, geophysical fluid dynamics, inorganic geochemistry, hydrogeology, paleobiology, environmental geology, planetary atmospheres, physical oceanography, mineralogy, and petrology. Candidates whose research integrates combinations of field, laboratory, and theoretical approaches will be particularly favored.

We expect successful applicants to develop a vigorous, independent research program and to participate fully in undergraduate and graduate teaching. A Ph.D. is required. Interested persons should send a résumé, several reprints or preprints, and a statement of research interests, plus the names, mail and email addresses, and telephone numbers of at least three persons from whom the Department may request letters of recommendation, to: **Dr. John M. Ferry, Chair, The Morton K. Blaustein Department of Earth and Planetary Sciences, Johns Hopkins University, Baltimore, MD 21218.** The search will close March 1, 1997, but later applications may be considered. *Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are encouraged to apply.*

Fairmont State College invites applications for two anticipated tenure-track positions in biology, available August 1997, at the **ASSISTANT PROFESSOR** level. Candidates for the first position should be able to teach invertebrate zoology, general zoology, and aquatic ecology. Candidates for the second position should be able to teach anatomy and physiology for allied health professions and animal physiology and biochemistry for biology majors. We are particularly interested in individuals capable of developing an undergraduate course in neurobiology, toxicology, or pharmacology. Preference will be given to candidates with postdoctoral, teaching, and computer experience. Review of applications will begin January 1, 1997. Send curriculum vitae; letter of application that includes your personal philosophy of education and research interests; undergraduate and graduate transcripts; and the names, addresses, and telephone numbers of three references to: **Dr. Albert Magro, Chair, Division of Science, Mathematics and Health Careers, Fairmont State College, 1201 Locust Avenue, Fairmont, WV 26554.** For more information about Fairmont State College visit our web page at <http://www.fairmont.wvnet.edu>. *Equal Opportunity/Affirmative Action Institution.*

### THE NATURE CONSERVANCY DIRECTOR OF STEWARDSHIP

The Nature Conservancy (TNC) seeks a scientist to provide leadership and strategic guidance for its natural areas managers and a team of in-house consultants who advise them. The ideal candidate will have an advanced degree (Ph.D. preferred) in an ecological, biological, or related social science discipline and real experience in natural areas management, the analysis of the human contexts of conservation action, or both. He/She will also have proven experience in strategic planning and program implementation. A senior position located in Arlington, Virginia, the **DIRECTOR** manages a staff of 20, oversees a competitive research program, and raises funds. See the TNC [www.tnc.org](http://www.tnc.org) for a full position description or submit application and résumé to: **William E. Ades, The Nature Conservancy, 1815 North Lynn Street, Arlington, VA 22209. Email: bades@tnc.org.** Application deadline: December 31, 1996. *Equal Opportunity Employer.*

## POSITIONS OPEN

### CHIEF ILLINOIS NATURAL HISTORY SURVEY

Nominations and applications are invited for the position of **CHIEF** of the Illinois Natural History Survey, a Division of the Illinois Department of Natural Resources and an affiliated agency of the University of Illinois at Urbana-Champaign. The Survey is Illinois' premier agency for data collection, research, and related service programs on biological resources. The staff consists of more than 200 scientists and support personnel. The total annual budget is approximately \$10 million. The Chief is the Survey's top administrator with responsibility for the staff, programs, and finances of the Survey, and is the principal interface with state and federal agencies. Qualifications: the candidate must possess an earned Ph.D. in a relevant field of the biological sciences. The candidate must have a substantive and sustained research/publication record; demonstrated management, interpersonal, and leadership skills; and demonstrated written and oral communication skills. Experience in managing a complex scientific organization and interacting with governing boards, or other advisory groups, is highly desirable. Salary commensurate with qualifications and past experience. *Proof of U.S. citizenship or eligibility for U.S. employment will be required prior to employment.* To ensure full consideration, send letter of application, résumé including publication record, and names and telephone numbers of five references by February 3, 1997 to: **Secretary to the Search Committee for the Chief, Illinois Natural History Survey, P.O. Box 948, Champaign, IL 61824-0948. Telephone: 217-333-6830; TDD: 217-782-9175.** The search will continue until the position is filled. This appointment shall be effective on or about July 1, 1997. *The State of Illinois is an Affirmative Action/Equal Opportunity Employer and an Americans With Disabilities Act Employer without regard to race, age, religion, color, national origin, sex or disabled conditions.*

### 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 fMRI studies and the analysis of neuroimaging datasets using multivariate statistical techniques. He or she will be expected to collaborate with researchers in the U.S., Japan, and Denmark and to carry out independent research in neuroscience related to the stated goals of the Human Brain Project. Applicants must be eligible for employment at the **ASSISTANT PROFESSOR** level. In addition to an M.D. or Ph.D. degree in neuroscience, neuropsychology, or related discipline and at least two years of relevant postdoctoral research experience, all applicants should have demonstrated expertise in functional neuroimaging, a working knowledge of statistics, and experience with program development on a UNIX platform. For more information about Human Brain Project-related PET and fMRI research at the University of Minnesota, see <http://pet.med.va.gov:8080/hbp.html>. A curriculum vitae and bibliography and the names of three references must be received by **David A. Rottenberg, M.D., VA Medical Center (11P), Minneapolis, MN 55417** before February 15, 1997. *The University of Minnesota is an Equal Opportunity Employer and Educator.*

### FACULTY POSITION DEPARTMENT OF PHYSIOLOGY

The Department of Physiology at the Louisiana State University Medical Center (LSUMC) in Shreveport invites applications for a **TENURE-TRACK** faculty appointment beginning spring 1997. Although preference will be given to candidates at the rank of Assistant Professor, outstanding applicants at the Associate or full Professor levels will also be considered. Applicants must have a Ph.D. and/or M.D. degree and appropriate postdoctoral research experience. Each appointee will be expected to establish a vigorous independent research program supported by extramural funding, and to participate in the teaching of graduate and medical students. Applicants must submit a curriculum vitae, a brief summary of current and future research plans, and the names of three references to: **Ms. Shari Boyett, Search Committee Coordinator, Department of Physiology, LSU Medical Center, 1501 Kings Highway, Shreveport, LA 71130.** The closing date for applications is January 31, 1997 or until the position is filled. *LSUMC is an Equal Opportunity/Affirmative Action Employer and complies with the guidelines of the Americans With Disabilities Act.*



## The Scripps Research Institute

*Ph.D. Programs in Chemistry and  
Macromolecular &  
Cellular Structure & Chemistry*

The Scripps Research Institute will admit highly qualified students in the fall of 1997 to two Ph.D. programs: one integrating cell and molecular biology with structure and chemistry, and the other in chemistry.



Graduate studies at Scripps provide an exceptional training opportunity in a uniquely multidisciplinary environment with an emphasis on individualized training for each student.

Candidates must have a bachelor's degree and a strong background in biology and/or chemistry. Qualified applicants will be invited to visit the Institute. Financial support will be provided to all accepted students.

Since its establishment in 1961, the Institute has gained international recognition for its basic research in molecular biology, immunology, chemistry, neurosciences, cell biology, and plant biology.

Individuals interested in applying to either program should contact the Office of Graduate Studies for a brochure and application: **The Scripps Research Institute, Office of Graduate Studies, IMM 21, 10550 North Torrey Pines Road, La Jolla, CA 92037. Tel: (619) 784-8469. Fax: (619) 784-2802. Internet: <http://www.scripps.edu>.** The graduate programs are accredited by the Western Association of Schools and Colleges. TSRI is an equal opportunity institution.

## Postdoctoral Associate

*Pulmonary Immunopharmacology*

We are seeking a postdoctoral Associate, having a Ph.D., MD, or Md/Ph.D., to conduct research in our primate models of pulmonary dysfunction, emphasizing the role of leukocyte adhesion processes underlying asthma and other pulmonary pathophysiology.

Research will include monitoring pulmonary function in primate models using state-of-the-art instrumentation. Knowledge of pulmonary physiology is essential and familiarity with leukocyte biology is important for this position. Candidates having experience with handling primates and with either in vitro or in situ leukocyte adhesion assays will be preferred.

For an opportunity to participate in our challenging environment, send your resume with a brief cover letter to: **Boehringer Ingelheim Pharmaceuticals, Inc., Attn: BBPB-8, 900 Ridgebury Road, P.O. Box 386, Ridgefield, Connecticut 06877-0368; Fax (203) 791-6117. EOE M/F/D/V.**



**Boehringer  
Ingelheim**

## Expanding Minds

### Improving Bodies

Chiron Corporation's mission is to create products that transform the practice of medicine. Since 1981, our Emeryville-based company has been at the forefront of biotechnology, using genetic engineering and other tools to develop products for the diagnosis, prevention and treatment of human disease. Through the collaborative efforts of nearly 7,000 employees worldwide, we have taken strides toward fulfilling our mission; accomplishments including blood-screening products to prevent the transmission of disease, cancer treatments, the first effective treatment for multiple sclerosis, novel adult and pediatric vaccines for viral and bacterial infectious diseases, and products to help physicians work with patients with vision disorders. Chiron also has programs focused on cardiovascular diseases. We have the following opportunities:

#### Associate Director, Cell Culture Development

You will direct the development of cell culture processes for producing recombinant proteins for preclinical, clinical and commercial applications. You will work in collaboration with development scientists in the areas of expression, purification, formulation and analysis and will be responsible for transferring the processes to the manufacturing site. You will also participate in project strategy teams dealing with Development, Manufacturing, QC, Pharmacology, Toxicology, Clinical, Regulatory and Marketing issues.

To qualify, you must have a Ph.D. in Biotechnology, Cell Biology, Microbiology or Biochemical Engineering with 6+ years of experience, or equivalent. You must also have expertise in mammalian cell culture processes; hands-on experience in cell line selection, media development, bioreactor operation, and recovery operations; and experience in collaborating with other development groups. Experience in designing and installing/commissioning of bioreactor and recovery equipment, and transferring technology to the manufacturing site is preferred. Experience in regulatory filings with the FDA is highly desirable. Supervisory experience is a must. Job Code 2109.

#### Specialist, Cell Culture Development

You will play an important role in the development of cell culture processes for producing recombinant proteins at high titer that can be recovered efficiently for subsequent purification. Specifically, you will carry out the cell culture experiments at the scale of spinners and small bioreactors and work out processes such as filtration to recover the product. You will also participate in scaling up the processes and transferring them to the manufacturing site.

To qualify, you must have a BS/MS in Biochemical Engineering, Biotechnology, or Microbiology and 5+ years' experience, or equivalent. You must also have expertise in mammalian cell culture processes; hands-on experience in cell line selection, media development, bioreactor operation, and recovery operations. Experience with technology transfer to the site of manufacture and analytical techniques such as ELISA, HPLC, SDS-PAGE is preferred. Job Code 2110.

#### Scientist, Research

You will lead the effort to clone and express various classes of extracellular and intracellular receptors. You will characterize and design selective biochemical and cellular assays for the cloned molecules and participate in research to study structure/function relationships.

To qualify, you must have a Ph.D. in Cellular/Molecular Biology or a related field with 3+ years of post doctoral experience in Molecular Biology or Biochemistry. Supervisory experience, a team player attitude, and good oral and written communication skills are essential. Candidates who are technically oriented, creative, organized, and have excellent analytical skills are encouraged to apply. Job Code 2158.

We offer a competitive compensation and benefits package. If you have the dedication, spirit and flexibility to rise to our many challenges, send your resume, indicating Job Code of interest to: Chiron Corporation, Human Resources, 4560 Horton Street, Emeryville, CA 94608. We are an equal opportunity employer.

**CHIRON**

## POSITIONS OPEN

### FACULTY POSITION IN BIOCHEMISTRY University of Alabama at Birmingham

Applications are invited for a **TENURE-TRACK** position in the Department of Biochemistry and Molecular Genetics at the University of Alabama at Birmingham (UAB). Although we anticipate filling this position at the Assistant Professor level, we will consider individuals at any level of appointment. This search is directed at outstanding scientists in any area of research in biochemistry. Faculty are expected to establish competitive research programs and to assist in graduate, medical, and dental teaching. Applicants should hold a Ph.D. with several years of postdoctoral experience. Applications should be received by January 1, 1997. Interested individuals should forward a curriculum vitae, statement of research plans, and at least three letters of recommendation to: **Dr. Stephen L. Hajduk, Biochemist Search Committee, Chairman, Department of Biochemistry and Molecular Genetics, University of Alabama at Birmingham, Birmingham, AL 35294.**

*UAB is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT PROFESSOR—BIOLOGY Position Number FS8024

**TENURE-TRACK** position to start August 1997. Responsibilities include teaching undergraduate lecture and laboratory courses in human anatomy and physiology, human anatomy, nutrition, general biology, and various general education science courses. Teaching load is 12 credit hours per semester with opportunity for some research involving undergraduate students. Qualifications: Ph.D. in biology with evidence of a broad background in human biology, outstanding teaching ability, and genuine commitment to achieving excellence in teaching and advising undergraduates. Salary negotiable (\$30,000 to \$32,000); excellent benefits package. Applicants must provide letter of application describing interest and qualifications for position, curriculum vitae with transcripts of all college work, and three current letters of recommendation to: **Dr. Brent Ybarondo, Chair, Department of Biology, Adams State College, Alamosa, CO 81102. Telephone: 719-587-7256** for a copy of complete vacancy announcement. Review of completed applications to begin February 15, 1997 and continue until a suitable applicant is hired. *Affirmative Action/Equal Opportunity Employer.*

Nova Southeastern University's (NSU's) Oceanographic Center invites applications for a **FULL-TIME FACULTY** position (Ph.D. required) in biological oceanography or a related discipline. Responsibilities include teaching graduate-level courses (planktonic organisms and processes), participating in an environmental sciences program, conducting externally funded research, and serving on faculty committees. NSU offers a competitive salary, a comprehensive benefits package, and a team-oriented work environment. Candidates currently conducting established and externally funded research programs are preferred. For confidential consideration, send your résumé, including salary requirements, a copy of unofficial transcript(s), and the names and addresses of three work-related references to: **Dr. Richard Dodge, c/o Human Resources Department (DMB), 3301 College Avenue, Fort Lauderdale, FL 33019.** Review of résumés will begin immediately and continue until the position is filled. *Equal Opportunity Employer/Affirmative Action/Smoke-free Campus.*

### ASSOCIATE OR FULL PROFESSOR GRAIN AND/OR OILSEED CHEMISTRY

Applicants sought for 12-month, with consideration for tenure at time of appointment, or tenure-track position. Must have record of teaching and research achievements; collaborative research; and international reputation in grain/oilseed chemistry, biochemistry, or molecular biology. Teach graduates and undergraduates and obtain research funds. Send curriculum vitae, list of publications, four reprints, a one- to two-page outline of the proposed research program, teaching philosophy, and three letters of reference to: **P. A. Seib, Department of Grain Science, Kansas State University, Shellenberger Hall, Manhattan, KS 66506-2201.** Closing February 15, 1997 or when suitable candidate found. **Telephone: 913-532-4088; Email: PAS@gizmit.wheat.ksu.edu.** Also available: position for Assistant/Associate Professor in Cereal Science; contact: **C. E. Walker, Telephone: 913-532-4058; Email: CEW@gizmit.wheat.ksu.edu.** Kansas State University is an Affirmative Action/Equal Opportunity Employer and actively seeks diversity.

## POSITIONS OPEN

### ASSISTANT PROFESSOR BEHAVIORAL ECOLOGY

The Department of Biological Sciences invites applications for a **TENURE-TRACK** position in Behavioral Ecology starting September 1997. Preference will be given to those applicants with postdoctoral experience, an excellent record of research productivity, and teaching experience. Candidates are expected to develop a strong independent research program in behavioral ecology. The research area is open. However, we seek candidates who integrate theoretical research with field-based empirical work. Teaching responsibilities will include animal behavior, participation in the introductory biology series, and a course in their area of expertise.

Competitive salary and start-up funds will be provided. Applicants should submit statements of both teaching and research interests, curriculum vitae, and representative reprints, and should arrange to have three letters of recommendation sent by 15 January 1997 to: **Jean Witkowski, Behavioral Ecologist Search Committee, Department of Biological Sciences, Ohio University, Athens, OH 45701.** Review of applications will begin 15 December 1996. For more information visit the department's web page at: <http://cneuro.zool.ohiou.edu>.

*Ohio University is an Equal Opportunity/Affirmative Action Employer, and encourages applications from women and members of minority groups.*

The U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Corn and Soybean Research Unit, Wooster, Ohio, has a permanent full-time position for a **RESEARCH GENETICIST (Plants)**. The incumbent will have primary responsibility to develop a research program studying the molecular interactions between plants and viruses that lead to resistance or susceptibility in corn. Also, the scientist will conduct cooperative research with plant pathologists, breeders, and geneticists to identify and characterize genes controlling host-plant response to virus diseases. Candidate must have professional knowledge of plant genetics, molecular and cellular biology, biochemistry, plant pathology, and plant virology. Ph.D. is desirable. *Must be U.S. citizen.* Salary is commensurate with experience (\$36,426 to \$56,759 per annum). For information concerning the research program contact: **Dr. Raymond Louie, Telephone: 330-263-3834.** For information on application procedures/forms, contact: **Richard A. Bergole, Telephone: 330-263-3774.** (Note: A response to the Selection Placement Factors is required for consideration. Failure to provide this information may result in non-consideration. Individuals should request a copy of the vacancy announcement, ARS-D6N-164, which contains these Factors.) Applications must be postmarked by December 30, 1996. *USDA/ARS is an Equal Opportunity Employer.*

### FACULTY POSITION Biomedical Physicist

Physics Department at Oakland University (OU) invites applications for a tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** position. A Ph.D. in physics or a closely related field, 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 a curriculum vitae, publication list, and description of research interests, and should arrange for three letters of recommendation to be sent to: **Prof. Venkateswaran, Physics Department, Oakland University, Rochester, MI 48309** before February 10, 1997. *OU is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

### NEONATAL/PERINATAL MEDICINE

The Department of Pediatrics at the University of Michigan is seeking a **DIRECTOR** for the Division of Neonatal/Perinatal Medicine. Candidates for this tenure-track position should be senior-level Board-certified neonatologists, have experience as independent investigators, and be qualified to direct a successful academic division of neonatal/perinatal medicine that includes a Level III NICU. Please send curriculum vitae to: **Jean E. Robillard, M.D., Professor and Chair, Department of Pediatrics, D3202 MPB, 1500 East Medical Center Drive, Ann Arbor, MI 48109-0718.** The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

### GENETICIST State University College at Buffalo

Applications are invited for a tenure-track **ASSISTANT PROFESSOR** position to begin September 1997. We are seeking a colleague who is enthusiastic about teaching undergraduates. Teaching responsibilities will include Genetics, Introductory Biology for non-majors, and either Botany or Cell Biology. The successful candidate will be expected to develop an active research program involving undergraduate and Master's students. Applicants must have a Ph.D.; postdoctoral teaching and research experience is preferred but not required. Send curriculum vitae with a thoughtful statement of teaching philosophy, research goals, and three letters of recommendation by January 20, 1997 to: **Dr. Randal Snyder, Chair of Search Committee, Department of Biology, Buffalo State College, 1300 Elmwood Avenue, Buffalo, NY 14222.** We especially encourage applications from women and minorities.

### RESEARCH ASSOCIATE CELLULAR IMMUNOLOGY

The Division of Pulmonary and Critical Care Medicine, University of Miami School of Medicine at Mount Sinai Medical Center, is seeking a **CELLULAR IMMUNOLOGIST** with at least two years of postdoctoral experience to study the role of T cells and cytokines in asthma and other airway diseases. Specific emphasis will be placed on immunological response to new classes of immunomodulating drugs in well-developed animal models of asthma. Candidates should have sufficient research experience to demonstrate both significant accomplishment and outstanding promise. The candidate will join a team of highly interactive basic researchers and physician-scientists engaged in studying the mechanisms of allergic airway disease. A state-of-the-art laboratory is available. Funding is guaranteed for two years. Interested candidates should send an application including curriculum vitae, bibliography, a brief statement indicating research interests, and three letters of reference to: **Dr. William M. Abraham, Director of Research, Mount Sinai Medical Center, 4300 Alton Road, Miami Beach, FL 33140.** *Equal Opportunity Employer. We support a drug-free workplace.*

**RESEARCH ASSOCIATE:** Must have M.D. or Ph.D. in molecular biology or biochemistry, three years of postdoctoral experience, and verifiable references. Duties: conduct medical research using sophisticated molecular biology methods under direction of P.I. Skills in cDNA cloning; PCR; site-directed and random mutagenesis; and expression of recombinant proteins in bacteria, yeast, and mammalian cells required. Must have experience with yeast two-hybrid system. Proficiency in cellular and *in vitro* assays of NADPH oxidase activity is a major asset. Must be able to develop novel methods and work with minimal supervision. Minimum salary \$24,600. Send résumé and copy of ad to: **Dr. Michael Kleinberg, Baltimore VAMC, Research Service Room 3B-183, 10 North Greene Street, Baltimore, MD 21201.** *The Baltimore VAMC is an Equal Opportunity Employer.*

### MOLECULAR/STRUCTURAL BIOLOGY OF MEMBRANE PROTEINS

Applications are being accepted for a **POSTDOCTORAL POSITION** involving the cloning, overexpression, and 3-D structural characterization of membrane proteins using combined genetic, biochemical, and biophysical approaches. Applicants must have significant experience with molecular biology techniques (gene isolation, cloning, and overexpression) and an interest in the determination of the high resolution structures of integral membrane proteins. *Because of the nature of the funding for this position, applicants must be citizens or permanent residents of the U.S.A.* Send applications to: **Prof. Chuck Sanders, Department of Physiology and Biophysics, Case Western Reserve University, Cleveland, OH 44106-4970. FAX: 216-368-1693; Email: chuck@lyotrope.phol.cwru.edu; Lab home page: <http://pout.cwru.edu:8080/~olga/>.** *Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.*

A **RESEARCH ASSOCIATE** position is available to study diverse aspects of DNA damage response in mammalian cells, including gene specific repair and activation of critical cellular proteins following genotoxic exposures. Ph.D. with relevant experience in cellular and molecular biology and a strong desire to develop as an independent investigator are required. Send curriculum vitae and names of three referees to: **Altat A. Wani, Ph.D., Department of Radiology, 103 Wiseman, Ohio State University, Columbus, OH 43210. Email: wani.2@osu.edu.** *Ohio State University is an Equal Opportunity Employer.*





**Ontogeny, Inc.**, a leader in the pioneering field of developmental biology, is looking for highly motivated individuals to join a team of researchers in a stimulating and challenging environment. This rapidly growing company makes use of molecular, cellular, and tissue biology to identify signals that induce cell differentiation and tissue development. We are looking to fill the following positions:

**Diabetes Research Scientist** to join established group in the study of pancreatic  $\beta$  cell development. The successful candidate must have a Ph.D. and a minimum of two years, post-doctoral experience in molecular or cellular biology, preferably focused on pancreatic development. Working knowledge of the biology of the pancreas, pancreatic cell line development, and/or animal models of diabetes is preferred. **Job Code: DRS/S**

**Bone/Cartilag Research Scientist** to join and/or lead an established group in the study of bone and cartilage development. The successful candidate will have a Ph.D. and a minimum of two years of post-doctoral experience in molecular or cellular biology. Working knowledge of primary cultures of cartilage/bone cells, animal models of bone repair and formation, bone histology, and/or the general developmental biology of bone is required. **Job Code: BCRS/S**

**Developmental Biologist/Histotechnologist** to join an existing team of scientists applying developmental biology expertise to drug discovery. Several positions are available to candidates with a Ph.D. degree, or M.S./B.S. with at least five years of relevant experience. The successful candidates will have demonstrated scientific excellence and leadership as well as proficiency in immunohistochemical techniques including enzymatic stains, fluorescent stains, and double and triple-labeling. Extensive experience with in situ hybridization is required. Experience with analyzing expression patterns in both embryonic and adult tissue, as well as computer-aided image analysis and manipulation, is highly desirable. **Job Code: DBH/S**

**Hematopoiesis/Research Scientist** to play a leading role in the study of hematopoietic cell development. The successful candidate must have a Ph.D. and a minimum of two years of post-doctoral experience in molecular or cellular biology. Working knowledge of the hematopoietic system, including assays of hematopoietic growth factors and precursor cell development in animal models and humans, is required. Familiarity with methylcellulose and bone marrow colony assays highly desirable. **Job Code: HRS/S**

**Hematopoiesis Technician** to function as a support person in the study of hematopoietic cell development. The successful candidate will have a B.S. or M.S. and have working knowledge of methylcellulose and bone marrow colony assays. Experience in bone marrow transplantation units a plus. **Job Code: HT/S**

In return for your expertise, we offer a very competitive compensation package, including incentive stock plan, challenging projects, and a positive team environment. Please respond indicating appropriate Job Code to: **Marlene A. Thayer, Director of Human Resources, 45 Moulton St., Cambridge, MA 02138-1118; Fax: 617/876-0866**

*An Equal Opportunity Employer*

#### VISION RESEARCH

##### *Tenure-Track Faculty Position*

Applications and nominations are invited for a tenure-track faculty appointment at the Asst./Assoc. Professor level in the Eye Research Institute of Oakland University. The ideal candidate will have at least three years of post-Ph.D. experience in vision research and possess external grant funding. The successful applicant must be able to establish a vigorous, independent program in visual science. The level of appointment will be commensurate with the applicant's experience; salary is negotiable, and there are excellent fringe benefits.

The faculty of the Eye Research Institute engages in full-time research on the biochemistry, physiology, and molecular biology of the cornea, lens, retina, and intraocular fluids with good opportunities for collaboration. The faculty also conducts clinical research with the affiliated Department of Ophthalmology of William Beaumont Hospital. The Institute has an NIH Core facility in electron microscopy and tissue culture, and in 1997 a new animal care facility will be operational.

The Eye Research Institute is an independent academic unit of Oakland University, a state supported institution situated on a 1400 acre campus, 25 miles north of Detroit, with an enrollment of 13,600 students in baccalaureate and graduate programs.

Applicants should send a curriculum vitae, 3 to 5 reprints, and the names of three references by March 1, 1997, to Frank Giblin, Ph.D., Chair, Search Committee, Eye Research Institute, Oakland University, Rochester, Michigan 48309-4401.

*Oakland University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.*

## VACCINE PROCESS DEVELOPMENT

Merck Research Laboratories, a world leader in biological and pharmaceutical research, has positions open for outstanding scientists and engineers in the Vaccine Bioprocess R&D department. The level of appointment will be commensurate with the candidate's experience and credentials. The positions involve the development of animal cell culture based manufacturing processes for Merck's viral vaccines, viral vectors for vaccines and gene therapy, and recombinant therapeutic proteins. The positions focus on the applied biological aspects of process development such as strain construction and selection, eukaryotic cell physiology, protein expression and modification, cell nutrition and culture medium development, virus replication and virus-host interaction. Functions include manufacturing process development, process and product biochemical analysis, generation of clinical supplies, and technology transfer to manufacturing. The positions require not only a strong scientific background but also the ability to work in teams, and at the senior level, to interact with clinical, regulatory, manufacturing and marketing personnel.

A B.S., M.S., or Ph.D. in virology, cell biology, biochemical engineering, or equivalent is required, with previous relevant experience desired as well as excellent communication skills.

Excellent salary and benefit programs accompany this position 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 **Ad# B-73, MRL Human Resources WP42-2, Merck Research Laboratories, P.O. Box 4, West Point, PA 19486**. Only candidates considered for interviews will receive responses. EEO/AA/VH Employer.



**MERCK**  
Research Laboratories

## POSITIONS OPEN

### MEDICAL WRITER

200 Plus Attorney Firm has immediate opening for an in-house **STAFF SCIENTIST** to work closely with litigation team specializing in defense of toxic tort and product liability claims. Position involves reviewing and summarizing primary scientific literature, reviewing testimony for issue analysis, and preparing written reports summarizing various areas of science. Solid background in the biological sciences and excellent written and oral communication skills required. Competitive salary and benefits offered. Send cover letter and résumé to: **Sherelyn T. Kilar, Director of Legal Personnel, McCarter and English, 4 Gateway Center, 100 Mulberry Street, Newark, NJ 07101-0652.**

*Nature Medicine* is seeking an **ASSISTANT EDITOR** to join its editorial staff in Washington, DC. This is a new post created in response to the rapid growth of the journal.

The successful candidate will participate in all aspects of the editorial process and focus on the selection of research manuscripts.

The ideal candidate will have a strong background in science research (including a Ph.D. in the biological sciences), excellent literary skills, a broad interest in biomedical research, and a strong desire to work in science publishing.

Please mail, fax, or Email a curriculum vitae and a concise letter explaining your qualifications on or before December 30, 1996 to: **Nature Medicine, 545 National Press Building, Washington, DC 20045. FAX: 202-626-0970; Email: j.rose@naturedc.com.**

**POSTDOCTORAL POSITION** available immediately to study the effect of superantigens on viral immunity and autoimmunity. Applicants should have a Ph.D. or M.D./Ph.D. Experience in cellular immunology and/or virology using murine experimental models is desirable. Send curriculum vitae and the names, addresses, and telephone numbers of three references to: **Dr. Marcia A. Blackman, Department of Immunology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105** by February 1, 1997. *Affirmative Action/Equal Opportunity Employer. We provide a smoke-free environment.*

**POSTDOCTORAL POSITION** to study the molecular genetics of human DNA replication. Epstein-Barr virus sequences and immunoglobulin, globin, and *myc* gene families are being used as model systems both *in vivo* and *in vitro* to define mammalian origins of replication and to study their cell cycle regulation. The role of the LCR in the regulation of replication is also being investigated. Apply by mail and a FAX copy to: **Dr. C. Schildkraut, Albert Einstein College of Medicine, Resnick Campus, 1300 Morris Park Avenue, New York, NY 10461. FAX: 718-430-8574. Equal Opportunity Employer.**

### MICROBIOLOGY/IMMUNOLOGY Yale University School of Medicine

**TWO POSTDOCTORAL** positions available to study 1) the molecular basis for tissue-specific infection by group A streptococci and 2) the role of bacteria in triggering autoimmune neuropsychiatric disorders. Experience in molecular biology and/or immunology is desired. Please send curriculum vitae and names of three references to: **Dr. Debra Bessen, Yale University School of Medicine, 333 Cedar Street, Box 208034, LEPH, New Haven, CT 06520. Affirmative Action/Equal Opportunity Employer.**

### POSTDOCTORAL POSITION PHARMACOLOGY

A **POSTDOCTORAL POSITION** is available at Southern Illinois University (SIU) School of Medicine in Pharmacology. Individuals interested in this position must have an M.D. or Ph.D. with training in experimental pathology, pharmacology, biochemistry, immunohistochemistry, autoradiography at both light and ultrastructural levels, and molecular biology. Preference will be given to individuals with experience using modern molecular approaches to examine neurogenic and endothelial control mechanisms of cerebral vascular tone in health and disease. The salary for this position is \$2,072 per month. Interested individuals should send a curriculum vitae, summary of research experience (including copies of key publications), and three letters of recommendation to: **Dr. Tony J.-F. Lee, Professor, Department of Pharmacology, Southern Illinois University School of Medicine, P.O. Box 19230, Springfield, IL 62794-1222. SIU is an Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN



A&PC, a rapidly expanding biotech company involved in drug design and development, seeks self-motivated, highly trained **PHYSICAL CHEMISTS** and **FORMULATION CHEMISTS** for its R&D section.

The successful candidates must possess a Ph.D. degree, along with a record of publications in their respective fields. Familiarity, including hands-on experience, with instruments like IR, UV, GC/Mass, NMR, and HPLC is required. Send curriculum vitae with cover letter by December 13, 1996 to:

**A&PC Human Resources  
P.O. Box 130517  
St. Paul, MN 55113**

### AGRICULTURAL RESEARCH ASSISTANT

Auxein Corporation is currently looking for an experienced plant agriculturalist with experience in laboratory/greenhouse research. The successful candidate will be expected to coordinate a product development program under the direction of senior Auxein scientists and to perform independent research designed to answer specific research questions. A Bachelor's degree with experience or a Master's degree in plant physiology, horticulture, or other plant-related discipline is required. Candidates should have broad experience in design, implementation, and data analysis of laboratory/greenhouse experiments with crops and flowering plants. Computer skills and familiarity with programs such as Word-Perfect, Freelance Graphics, Excel, and SAS for experimental design and statistical difference analysis is essential. Auxein Corporation is a high technology company developing proprietary products to enhance crop productivity. Interested candidates should send their résumé to the **Auxein Corporation, 3900 Collins Road, Suite 1015, Lansing, MI 48910. Attn: Personnel Department.**

**POSTDOCTORAL POSITION** is available immediately for an ecologist with interests in infectious diseases/parasitology to study epidemiology of vector-borne pathogens. Projects include modeling intervention methods for controlling Lyme disease, predicting geographic risk using remote sensing/GIS applications, and studying vector/pathogen population response to environmental change. Must have strong background in evolutionary and ecosystems ecology. Send curriculum vitae and names of three references to: **Durland Fish, Department of Epidemiology and Public Health, Yale School of Medicine, 60 College Street, P.O. Box 208034, New Haven, CT 06520-8034. FAX: 203-785-3604.**

**POSTDOCTORAL POSITIONS** available in a research group involved in tissue engineering with emphasis on orthopaedic applications. Cell Biologist: must have a Ph.D. in a related field with experience in culturing mesenchymal cells. Pharmaceutical Scientist: must have a Ph.D. in a related field with a background in drug delivery and/or pharmacokinetics. Applicants must possess excellent writing/verbal skills. Send curriculum vitae to: **Prof. Cato Laurencin, Allegheny Hospital, 3300 Henry Avenue, Philadelphia, PA 19129.**

**POSTDOCTORAL POSITION** available immediately in a laboratory studying early primate embryonic development, trophoblast differentiation, and placental hormone gene expression. Ph.D. in cellular/molecular reproductive biology and experience in cell culture and molecular biology (particularly DNA-protein interactions or gene transcription) desired. Submit curriculum vitae and names, addresses, and telephone numbers of three references to: **Dr. Thaddeus G. Golos, Ph.D., Wisconsin Regional Primate Research Center, University of Wisconsin, 1223 Capitol Court, Madison, WI 53715-1299. Email: golos@primate.wisc.edu; FAX: 608-263-3524. Affirmative Action/Equal Opportunity Employer.**

**HARVARD/POSTDOCTORAL POSITIONS** are available to study molecular mechanisms of arteriosclerosis and hypertension with special emphasis on molecular cloning, transcriptional regulation, and biological function of genes important for growth and differentiation of vascular smooth muscle cells (SmlIM, APEG-1, iNOS, and a novel gene E2A-BP). Experience with molecular biology, gene targeting, or protein chemistry is required. Please send curriculum vitae and names of three references to: **M. E. Lee, M.D., Ph.D., Associate Professor, Cardiovascular Biology Laboratory, Building 2, Room 129B, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115.**

## POSITIONS OPEN

### POSTDOCTORAL AND RESEARCH FACULTY Chemical Physics and Physics Experimentalists and Theorists

**FIVE POSITIONS** for exceptionally talented scientists in the following areas: quantum control of chemical reactions with tailored ultrafast light pulses, ultrafast x-ray diffraction and absorption, dynamics of biomolecular and biological processes imaged with light pulses, and high intensity light driven physics, including x-ray lasers, high harmonics, and laser driven particle acceleration. For more information about these positions and the group, see our Web site: <http://www-wilson.ucsd.edu>.

Salaries and positions commensurate with experience and qualifications. Applicants please send curriculum vitae, statement of research interests, and one letter of recommendation to: **Prof. Kent R. Wilson and C. P. J. Barty, Department of Chemistry, University of California, San Diego, La Jolla, CA 92093-0339. Equal Opportunity Employer.**

### POSTDOCTORAL CLINICAL RESEARCH FELLOWSHIPS

Harvard Medical School, Consolidated Department of Psychiatry: Two-year, NIMH-funded, postdoctoral **FELLOWSHIPS** involving independent research under supervision of experienced clinical researchers in biological and social/developmental fields, participation in integrative seminars, and related courses. Diverse research opportunities including brain imaging techniques, psychopharmacology, psychiatric epidemiology, and longitudinal studies of development. Open to psychiatrists, residents in psychiatry, other physicians, and Ph.D.'s in biological/social sciences who are U.S. citizens or permanent residents. Positions open July 1, 1997; stipends range from \$19,600 to \$32,300. Application deadline: February 1, 1997. Contact: **Program Administrator, Clinical Research Training Program, Judge Baker Children's Center, 3 Blackfan Circle, Boston, MA 02115. Telephone: 617-232-8390, x2559. Minority applicants encouraged.**

### POSTDOCTORAL FELLOW BOSTON UNIVERSITY SCHOOL OF MEDICINE Department of Pharmacology

Individuals sought for **TWO POSTDOCTORAL** positions in the Laboratory of Molecular Neurobiology. Cell biological, molecular biological, and electrophysiological techniques are combined to study the mechanisms of receptor-induced signal transduction and ischemia-induced neurodegeneration. Specific areas of research include: 1) Identification of the neuroactive steroid modulatory domains on amino acid receptors; 2) Identification of the role of steroids in neurodegenerative diseases; and 3) Identification and developmental regulation of transcription factors that control neuron-specific gene expression. Send curriculum vitae and list of references to: **Dr. David H. Farb, Chairman, Department of Pharmacology, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118-2394.**

Structural Studies of CD14 by NMR. A **POSTDOCTORAL POSITION** is open to determine the solution structure of the lipopolysaccharide binding domain of the lipopolysaccharide receptor CD14 by NMR. For background consult *Ann. Rev. Immunol.*, 13:437, 1995 and *J. Biol. Chem.*, 270:361, 1995. This position will involve work in protein chemistry to generate material for study as well as work in NMR for structural determination. The person chosen for this position will interact primarily with **Dr. Tobias and Dr. Kirkland** regarding LPS and CD14, and **Dr. Dyson and Dr. Wright** regarding NMR. Reply with curriculum vitae and list of references to: **Peter S. Tobias, The Scripps Research Institute, IMM-12, Department of Immunology, 10550 North Torrey Pines Road, La Jolla, CA 92037. Email: tobias@scripps.edu. An Equal Opportunity/Affirmative Action Employer.**

### POSTDOCTORAL POSITIONS PRINCETON UNIVERSITY

Applications are invited for postdoctoral researchers to address problems of scaling in ecological systems. Individuals should have the ability to perform both theoretical work and data analysis, and should have strong quantitative skills. Ph.D. required in mathematics, physics, computer science, ecology, or a related discipline. Outstanding research capabilities and ability to work as part of a group essential. Please send curriculum vitae to: **Department Manager, Department of Ecology and Evolutionary Biology, Princeton University, Princeton, NJ 08544. An Equal Opportunity/Affirmative Action Employer.**



## FACULTY POSITION

### MOLECULAR BIOLOGIST OF MUSCULOSKELETAL TISSUES

The Department of Orthopaedics and the Department of Microbiology and Molecular Genetics at UMDNJ-New Jersey Medical School invite applications for a tenure-track faculty position. Preference will be given to applicants with research programs in cell and molecular biology relating to musculoskeletal tissue.

The successful candidate will be expected to establish an independent research laboratory within the Department of Orthopaedics in close collaboration with its established Biomechanics/Biomaterials Unit and the Department of Microbiology and Molecular Genetics. Appointment is expected at the level of Assistant Professor; however, distinguished applicants at senior levels will also be considered with support commensurate with the candidate's qualifications and experience.

Applicants should submit a complete curriculum vitae including future research plans to: **Fred F. Behrens, M.D., Chairman, Department of Orthopaedics, New Jersey Medical School - UMDNJ, Doctors Office Center, 90 Bergen Street, Suite 5200, Newark, New Jersey 07103.** The UMDNJ is an Affirmative Action/Equal Opportunity Employer,



m/f/d/v, and a member of the University Health System of New Jersey.

## THE WORLD DEPENDS ON THE

### Commitment

### Of Our Scientists.

It takes world-class employees to make a world-class company.

At Abbott Laboratories, our professionals are researching, developing and marketing the health care products that will make a significant impact on generations to come. The Pharmaceutical Products Division of Abbott Laboratories, a worldwide leader in the development of healthcare products, has immediate openings in the Anti-Infective Research Division.

### RESEARCH SCIENTIST

You will assist in the identification of viral targets used for therapeutic intervention. This involves developing and maintaining assays to evaluate chemical compounds for inhibitory activity, as well as providing reagents. Additionally, you will determine the mechanism of action for active compounds identified in the assays.

We require a BS in Molecular Biology, Cell Culture or Protein Purification and 5+ years of laboratory experience (or an MS and 2 years of laboratory experience). You must have significant experience with molecular biology techniques, including molecular cloning, DNA sequencing, PCR and mutagenesis. A knowledge of cell culture, basic virology, as well as solid experience in protein purification are desired.

With over 50,000 employees worldwide and more than \$10 billion in annual sales, we've established ourselves as a respected global business and innovative leader in the changing health care industry. For consideration, please send your resume with salary history to: **Abbott Laboratories, Job #96-LAM-2826, D583, AP9A, 100 Abbott Park Rd., Abbott Park, IL 60064.** Abbott is an Affirmative Action Employer/Smoke-Free Environment.



### Postdoctoral Fellowship at NIH HIV Research

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

NIH is an Equal Opportunity Employer.

## PROFESSOR, HARVARD MEDICAL SCHOOL MASSACHUSETTS GENERAL HOSPITAL

The Cutaneous Biology Research Center of the Massachusetts General Hospital/Harvard Medical School invites applications and nominations for a position at the Professorial level. The primary faculty appointment of this candidate will be through the Department of Dermatology. The candidate will be an M.D. or M.D., Ph.D. and be sufficiently senior to have a record of accomplishments and extramural funding consistent with continued outstanding scientific research contributions. The area of scientific expertise should complement and extend the interests of the current faculty which investigates inductive signaling, transcriptional regulation, apoptosis, carcinogenesis, extracellular matrix, and appendage development, in vertebrate and invertebrate systems.

Interested individuals should send a curriculum vitae, reprints, brief statement of research interests and goals, plus the name, address and telephone number of three references to:

**John A. Parish, M.D., Chairman  
Department of Dermatology, Harvard Medical School  
and Director, Cutaneous Biology Research Center  
Massachusetts General Hospital  
55 Fruit Street, Warren 501  
Boston, MA 02114**

*The MGH/Harvard Cutaneous Biology Research Center is a committed Equal Opportunity/Affirmative Action Employer. Minorities, women, handicapped, and veterans are encouraged to apply.*

## HARVARD MEDICAL SCHOOL



## POSITIONS OPEN

### POSTDOCTORAL POSITION

Camille and Henry Dreyfus Foundation  
Scholar/Fellow Program for Undergraduate  
Institutions/Environmental Chemistry  
University of North Carolina at Wilmington

**POSTDOCTORAL FELLOWSHIP** to work with Dreyfus Scholar **Dr. Joan D. Willey**, University of North Carolina at Wilmington, on the project "Rainwater dissolved organic carbon (DOC) as a removal process for carbon from the atmosphere: Concentration, flux and forms of occurrence." Initial appointment is for one year with a possible one-year renewal. A Ph.D. in marine, atmospheric, or environmental chemistry is required, along with an interest in pursuing a research and teaching career at a primarily undergraduate institution. Applicants should submit a curriculum vitae, thesis title and abstract, transcript of graduate work, teaching interests, and three letters of reference to: **Dr. Joan D. Willey**, Department of Chemistry, University of North Carolina at Wilmington, 601 South College Road, Wilmington, NC 28403-3297. Email: willeyj@vcc.uncwil.edu; FAX: 910-962-3013; UNCW homepage: www.uncwil.edu; Dreyfus Scholar/Fellow Program homepage: www.panix.com/~brand/sf.html. Review of applications will begin January 15, 1997; position could begin as early as March 15, 1997. *The University of North Carolina at Wilmington is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

### CARDIOLOGY BRANCH Toren Finkel, M.D.

A **POSTDOCTORAL POSITION(S)** is available immediately in the Cardiology Branch of the NHLBI to study the role of reactive oxygen species in signal transduction. (See *Science*, 270:296-299, 1995; *PNAS*, 93: 11484-11852, 1996; *MCB*, 12:7115-7121, 1996.) A strong background in molecular biology is essential. Experience with the construction and use of recombinant adenoviruses is preferred. Applicants must have a Ph.D. and/or M.D. and less than five years of postdoctoral experience. Submit curriculum vitae and references to: **Toren Finkel, M.D., Ph.D., Cardiology Branch, 10 Center Drive, MSC 1650, Building 10, Room 7B-15, Bethesda, MD 20892-1650.**

**POSTDOCTORAL POSITION** is available to study signal transduction by Btk (Bruton's tyrosine kinase), the gene mutated in XLA (X-Linked Agammaglobulinemia). A strong background in cellular and molecular biology is desirable. Demonstrated skill in areas of mammalian cell culture and transfection, DNA cloning and sequencing, PCR technology, expression of recombinant proteins, and Western blotting will be helpful. Familiarity with the yeast two-hybrid system is a bonus. The position is available immediately at the newly established Molecular Pathology Laboratory at the Grady Campus of the Emory University System of Health Care. Please apply with curriculum vitae and names of three references to: **Dr. Bratin Saha**, Department of Pathology, Glenn Building, GHS, 69 Butler Street, S.E., Atlanta, GA 30303-3219. FAX: 404-616-7455; Email: bsaha@emory.edu. *An Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION** in mucosal immunology available January 1, 1997, to study antigen-presenting cell/T cell interactions and tolerance in mucosal inductive sites of the upper respiratory and the gastrointestinal tracts following immunization using novel vaccine delivery systems. Opportunity to work with a committed group of investigators studying human and animal infectious diseases. Applicants must have cellular immunology experience and ability to design experiments relevant to T cell stimulation and cytokine assays. Send a letter of application, curriculum vitae, and names of three references to: **Dr. David W. Pascual**, Veterinary Molecular Biology, Montana State University, Bozeman, MT 59717-3610. FAX: 406-994-4303; Email: uvdp@trex.oscs.montana.edu. *ADA/Affirmative Action/Equal Opportunity Employer/Veteran's Preference.*

### POSTDOCTORAL FELLOWSHIPS CELL SIGNALING SUNY at Stony Brook

Available immediately 1) to study the roles of heterotrimeric G-proteins in differentiation and development and 2) to study tyrosine phosphorylation of G-protein-linked receptors. Ph.D. and experience in molecular biology/cell signaling required. Send curriculum vitae and letters of reference to: **Dr. Craig C. Malbon**, Pharmacology-HSC, SUNY/Stony Brook, NY 11794-8651. FAX: 516-444-7696. *Equal Opportunity Employer.*

## POSITIONS OPEN

### POSTDOCTORAL POSITION Ligand-Activated Ion Channels

A **POSTDOCTORAL POSITION** is available to study the structure/function relation and modulation of GABA-activated chloride channels using electrophysiology and molecular biology. Candidates should have a Ph.D. in a relevant discipline and experience in patch clamping. Send curriculum vitae and names of three references to: **Dr. David S. Weiss**, Neurobiology Research Center, University of Alabama at Birmingham, 1719 6th Avenue South CIRC 410, Birmingham, AL 35294-0021. Email: dweiss@nrc.uab.edu; FAX: 205-975-5097. *An Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL POSITION Washington University School of Medicine

**POSTDOCTORAL POSITION** in immunology available immediately on an NIH-funded project to study cell death (*Science*, 270:1189) and immune tolerance (*Immunity*, 5:7). Candidates must have a Ph.D. and/or M.D. within the last five years and a strong background in immunology and/or cell biology. Experience in molecular biology, protein chemistry, and receptor biology/biochemistry helpful. Research will involve the molecular basis of apoptosis in the immune system and how this relates to immune regulation through the induction of tolerance. Send curriculum vitae and names of three references to: **Thomas A. Ferguson, Ph.D.**, Washington University School of Medicine, 660 South Euclid, Box 8096, St. Louis, MO 63110. *An Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL POSITION

Available to study host responses in an animal model of bacterial infection and sepsis. Primary interest is in the expression, regulation, and action of bovine/porcine cytokines, with the long-term goal of developing novel immunomodulation therapies. Ph.D. required with experience preferably in immunology, molecular biology, and/or infectious diseases. Position available for three years. Send curriculum vitae, a brief description of research experience, and names and telephone numbers of three references to: **Dr. Michael Taylor**, Room 2034, Department of Veterinary Physiology and Pharmacology, College of Veterinary Medicine, Iowa State University, Ames, IA 50011. Email: mtaylor@iastate.edu. *Iowa State University is an Affirmative Action/Equal Opportunity Employer.*

### POSTDOCTORAL POSITIONS Molecular and Cell Biology of the Reproductive System

**POSTDOCTORAL POSITIONS** are available immediately to study 1) the role of the basement membrane in epithelial (Sertoli cell) cell differentiation and 2) the regulation of telomerase in stem cells of the testis. Applicants should have a strong background in cell signaling techniques and molecular biology. Send curriculum vitae and names of three references to: **Dr. Martin Dym**, Department of Cell Biology, Georgetown University Medical Center, 3900 Reservoir Road, NW, Washington, DC 20007, U.S.A. *Georgetown University is an Affirmative Action/Equal Opportunity Employer.*

### CNS AND BRAIN TUMOR IMMUNOLOGY

**POSTDOCTORAL** training in immunology of the nervous system and its tumors. To apply, describe your relevant experience, the reason for your interest, and fellowships for which you are eligible (no form letters please). Start time flexible; can begin as late as one year from now. Reply to: **Dr. L. Lampson**, CNS Immunology and Tumor Biology Lab, Neurology/LMRC 116, Brigham and Women's Hospital, Boston, MA 02115.

Applications requested for a **POSTDOCTORAL** position to study the localization and contribution of prostaglandin E receptors to asthmatic asthma. Training in immunocytochemistry, *in situ* hybridization, and cell culture techniques essential. Send curriculum vitae and names of three references to: **Barbara Meyrick, Ph.D.**, Center for Lung Research, Vanderbilt University Medical Center, MCN T-1217, Nashville, TN 37232-2650. FAX: 615-343-7448; Email: barbara.meyrick@mcmail.vanderbilt.edu. *Vanderbilt University is an Equal Opportunity/Affirmative Action Employer and Educator.*

## POSITIONS OPEN

### POSTDOCTORAL POSITION

Department of Pathology  
Columbia-Presbyterian Medical Center

A **POSTDOCTORAL POSITION** is available immediately for participating in an ongoing study of identification, isolation, and characterization of a novel tumor suppressor gene in human male germ cell tumors. The research involves the use of methods in molecular genetics and genome analysis. Applicants should have a Ph.D. or M.D. with at least two years of experience in cell biology, cancer genetics, or biochemistry. Experience in positional cloning technology is preferred. Interested candidates should send curriculum vitae, an introductory letter containing a brief description of research experience, and names of three references to: **Vun-davalli V. V. S. Murty, Ph.D.**, Department of Pathology, College of Physicians and Surgeons of Columbia University, 630 West 168th Street, New York, NY 10032. Telephone: 212-639-8824; FAX: 212-794-5830; Email: murtyv@mskcc.org until December 31, 1996. *Columbia University is an Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL POSITION HIV RESEARCH

**POSTDOCTORAL POSITION** available immediately to study chemokine, cytokine, and cytokine antagonist effects on HIV and CMV replication in the lung. The research is NIH-funded and requires an individual with strong scientific and organizational skills. A Ph.D. or M.D. degree is required and a strong background in HIV research and molecular biology is highly desirable. Send curriculum vitae and names of three references to: **Paul Skolnik, M.D.**, Division of Infectious Diseases, Tufts University-New England Medical Center, 750 Washington Street, NEMCH 67, Boston, MA 02111. FAX: 617-636-3216; Email: paul.skolnik@es.nemc.org. *An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

**POSTDOCTORAL FELLOWSHIPS:** Two NIH-funded positions available in the newly formed Cataract Research Center to study the control of lens cell differentiation. The successful candidates will have a Ph.D. in cell or molecular biology. Projects will involve a multidisciplinary approach, but individuals with expertise in apoptosis, protein biochemistry, ratio imaging, or extracellular matrix are particularly encouraged to apply. Send curriculum vitae and names of three references to: **Dr. Steven Bassnett**, Department of Ophthalmology and Visual Sciences, Washington University School of Medicine, Box 8096, 660 South Euclid Avenue, St. Louis, MO 63110. Email: BassnettS@am.seer.wustl.edu. *An Equal Opportunity Employer.*

**POSTDOCTORAL POSITIONS** available in Environmental Toxicology, University of California (UC) Davis, to work on cellular protein phosphorylation activities affected by xenobiotics, particularly by organochlorines such as dioxins, PCBs, DDT, and HCH under the supervision of **Dr. Fumio Matsumura**. Experience in basic cellular biology and biochemistry is necessary; expertise in toxicology desired, but not required. Send curriculum vitae and names of two references to: **R. Morrison, Manager, Center for Environmental Health Sciences**, University of California, Davis, CA 95616. Telephone: 916-752-2732; FAX: 916-752-3394; Email: rmorrison@ucdavis.edu. Applications accepted beginning December 1, 1996. Positions open until filled. *UC is an Equal Opportunity Employer.*

### HARVARD MEDICAL SCHOOL

**POSTDOCTORAL POSITION** available immediately for NIH-funded project on signal transduction and mammalian DNA repair. Studies include: 1) regulation of p53 by phosphorylation, 2) function of the AT gene, and 3) cell cycle regulation.

Recent Ph.D. and experience with PCR, mutagenesis, transfection, and cDNA cloning required. Send curriculum vitae and names of three references to: **Dr. B. D. Price**, JF209, JCRT, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. Email: brendan.price@dfci.harvard.edu. *Equal Opportunity Employer.*

### VANDERBILT UNIVERSITY POSTDOCTORAL POSITION

A funded position is available immediately to study mechanisms of protein transport through the yeast Golgi complex. Experience in cell and molecular biology techniques required and in yeast genetics beneficial. Send curriculum vitae and names of references to: **Dr. Todd R. Graham**, Department of Molecular Biology, Vanderbilt University, Nashville, TN 37235. *Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.*



**Purdue University School of Veterinary  
Medicine; Associate Dean for Research and  
Graduate Programs**

Applications are invited for the position of Associate Dean for Research and Graduate Programs. The successful applicant will be expected to oversee and further develop the School's research and graduate education programs, to foster interdisciplinary research within the School and with other schools of the University, to maintain a strong independent research program, and to contribute to the School's instructional programs. It is anticipated that the administrative duties of the associate dean will require 50% of the incumbent's time. Essential qualifications include the following: evidence of scholarly achievement in a strong basic science research program; a record of success in obtaining extramural funding and the ability to successfully manage a diverse research program; an understanding of the role and responsibilities of a land grant institution; communication and interpersonal skills to create an organizational culture that promotes excellence and accountability; and a management style of participatory leadership. A Ph.D. degree and a D.V.M. degree or foreign equivalent are strongly preferred. Preference will be given to a person who could join the faculty of the Department of Basic Medical Sciences at the rank of professor, but outstanding candidates with strengths that might be more appropriate for other academic departments in the School will be considered. Nominations should include a brief summary of the qualifications and the address of the nominee. Applicants should send a letter of interest, a curriculum vitae, and the names of four references to the chair of the search committee. Applications received prior to January 15, 1997 will receive full consideration. For more information regarding the School's research and education programs see [www.vet.purdue.edu](http://www.vet.purdue.edu) or contact: Gordon L. Coppoc, D.V.M., Ph.D., Chair, Search Committee, School of Veterinary Medicine, Purdue University, West Lafayette, IN 47907-1246; Fax: 317-494-0781; E-mail: [coppoc@vet.purdue.edu](mailto:coppoc@vet.purdue.edu) *Purdue University is an equal opportunity/affirmative action employer*

## ASST OR ASSOCIATE PROFESSOR Microbiology and Immunology

CUNY Medical School/SBE is recruiting a new faculty member for the Dept of Microbiology and Immunology. CUNY Medical School/SBE is a seven-year integrated curriculum leading to a Bachelor of Science (B.S.) and Doctor of Medicine (M.D.) Degrees. Founded in 1973 and located on the City College Campus, its primary mission is to: expand access to medical careers for under-represented minorities and economically disadvantaged inner-city youth and to encourage and prepare students to provide primary care in New York's underserved urban community. It has the highest proportion of under-represented minority medical students in New York State and one of the highest in the nation. The Dept offers access to state-of-the-art research facilities.

**Responsibilities:** To teach medical students, allied health professional students and graduate students and conduct research in the areas of molecular or cellular immunology, or infectious disease.

Candidates are expected to have a Ph.D. or M.D. degree, or equivalent, and to have completed appropriate post-doctoral training with a demonstrated record of significant research accomplishments. Individuals should have teaching/research experience in molecular or cellular immunology, virology, or infectious disease.

Candidates must possess a strong belief in the values of diversity and multiculturalism. Position requires both the interest and skills for effective interaction with students of multi-ethnic backgrounds in an urban setting.

Salary:	Basic Sciences (Non-M.D.)	Clinical (M.D.)
Assistant Professor	\$42,167-67,409	\$62,323-89,209
Associate Professor	\$52,244-78,309	\$70,385-100,108

Interested individuals should send a curriculum vitae, copies of recent publications, a brief statement of future research goals and three letters of references by 1/17/97 to:



**Dr. Richard Colco, Chairman**  
Department of Microbiology and Immunology  
CUNY Medical School/  
Sophie Davis School of Biomedical Education  
138th Street and Convent Avenue - J920  
New York, NY 10031

CUNY Medical School has a strong commitment to the principle of diversity. In that spirit we are particularly interested in receiving applications from a broad spectrum of people, including women and under-represented groups. Reasonable accommodations provided for individuals with disabilities upon request.

**University of California  
San Diego School of Medicine  
Tenure Track or Tenured Position  
in Immunology**

The deadline for an available faculty position in immunology has been extended to February 1, 1997. Areas of interest should include: signal transduction in immunological functions, protein trafficking related to receptor assembly and antigen presentation, structure related to function in immunospecific molecules, the role of cytokines, cell adhesion molecules and inflammatory reactions in immune responses, mechanisms of host-pathogen interactions, development of immune systems, functional organization of immunity-relevant organs and mechanisms, and genetics of autoimmune responses. Academic rank and salary will be based on qualifications and experience based on UC scale.

Applicants should have M.D. or Ph.D. degrees with relevant postdoctoral experience and demonstrated ability to conduct an independent research program using modern techniques. They should also have skills and interest in teaching. Submit curriculum vitae, bibliography, statement of professional goals and research interests, and names and addresses of 5 references to:

**Immunology Search Committee**  
c/o Gordon N. Gill, M.D.  
University of California, San Diego  
9500 Gilman Drive  
#119, CMM-W Bldg.  
La Jolla, CA 92093-0650  
Application deadline: February 15, 1997.

EOE/AA

## GLOBAL CAREER OPPORTUNITIES

### HITACHI Advanced Research Laboratory

As one of the leading companies in the world, Hitachi explores frontiers of science and technologies. Since 1985, the Advanced Research Laboratory (ARL) has been concentrating its efforts on electron/radiation beam physics, software science, biotechnology, and materials science with a long-term perspective.

Now ARL invites applications for **RESEARCH JOB POSITIONS** in the following areas. **Postdocs;** (1) **COMPUTATIONAL NANOTECHNOLOGY**, A nano-designer in computational physics; first-principle band/cluster calculation of electronic, magnetic, and optical properties of artificial nanostructures on solid surfaces. (2) **THERAPEUTIC APPLICATIONS of ULTRASOUND**, An ultrasonic expert with interests in biophysics or a biophysicist capable of ultrasonic engineering. (3) **NATURAL LANGUAGE PROCESSING**, Text analysis and user interface for information access. Target languages are English and/or Japanese. **Research group leader;** (1) **ALLERGY and MOLECULAR IMMUNOLOGY**, A scientist to lead a research group devoted to innovating highly sensitive measurements of allergic processes by using novel biophysical and immunological techniques.

The posts are for maximum of 3 years on an annual contract basis. Applicants should submit a curriculum vitae, a list of publications, several reprints of their most significant work, a statement of research interests, and the names of three references willing to write letters of recommendation. A detailed description of the positions is available in [www page http://www.harl.hitachi.co.jp/job.html](http://www.harl.hitachi.co.jp/job.html) or contact by e-mail [jinji@harl.hitachi.co.jp](mailto:jinji@harl.hitachi.co.jp).

**Administration Section, Advanced Research Laboratory, Hitachi Ltd., Hatoyama-machi, Hiki-gun, Saitama, 350-03 JAPAN.**

## POSITIONS OPEN

### RESEARCH INVESTIGATOR MASS SPECTROMETRY

One-year **POSTDOCTORAL POSITION**, available immediately, using mass spectrometry to study protein conjugation. Requires a Ph.D. in chemistry/biochemistry or analytical chemistry with demonstrated accomplishments in structural elucidation of complex organic molecules and proteins, including peptide mapping, using mass spectrometry. Previous HPLC/electrospray experience is highly desirable. RedCell, Inc., a biopharmaceutical company developing novel therapeutic products based on red cell mediated therapy, offers an energetic environment and an opportunity for research in a rapidly changing field. Fax your résumé to: **Allen Krantz, Executive V.P. of Research, RedCell Inc., 270-B Littlefield Avenue, South San Francisco, CA 94080. FAX: 415-827-0126. RedCell is an Equal Opportunity Employer.**

### POSTDOCTORAL POSITION

**POSTDOCTORAL POSITION** is available to study transcriptional regulation and neuronal/glia differentiation during mouse embryonic development. Experience in protein biochemistry, molecular biology, and/or construction/analysis of transgenic mouse techniques is preferred. Please send curriculum vitae and a list of references to: **Sadhan Majumder, MD Anderson Cancer Center, 1515 Holcombe Boulevard, Box 100, Houston, TX 77030. Telephone: 713-792-8920; FAX: 713-792-6054; Email: majumder@utmdacc.mda.uth.tmc.edu. University of Texas MD Anderson Cancer Center is a smoke-free environment.**

The Rowland Institute for Science invites applications for a **POSTDOCTORAL** position to study protein folding and design. The successful candidate will be responsible for gene synthesis, expression, purification, and mutagenesis of  $\alpha\alpha$ , a de novo designed 38-residue peptide that adopts a helical hairpin conformation in solution. *Prot. Sci.*, 4:286, 1995, *PNAS*, 91:3675, 1994. Interested parties should send a curriculum vitae and names of three references to: **Dr. John J. Osterhout, osterhout@rowland.org or The Rowland Institute for Science, 100 Edwin H. Land Boulevard, Cambridge, MA 02142.**

**POSTDOCTORAL POSITIONS** are available to study control mechanisms of cytokine signal transduction and gene expression. Candidates with background in molecular biology or biochemistry should send curriculum vitae and addresses of three references to: **Dr. Yu-Chung Yang, Departments of Medicine (Hem/Onc) and Biochemistry/Molecular Biology, Walther Oncology Center, Indiana University School of Medicine, IB540, 975 West Walnut Street, Indianapolis, IN 46202. Telephone: 317-274-7512; FAX: 317-274-7592; Email: yu-chung\_yang@iucc.iupui.edu.**

### POSTDOCTORAL RESEARCH ASSOCIATE

Position available immediately for candidate with experience in genetic linkage analysis and positional cloning, to study a novel human tumor suppressor gene locus. Ph.D. should be in molecular biology, genetics, or a related field. Must have firm commitment to academic research, excellent communication skills, and the ability to work well with a variety of people. Mail curriculum vitae (no telephone calls accepted) for review to: **Carolyn Cole, University of Wisconsin Comprehensive Cancer Center, K4/666, 600 Highland Avenue, Madison, WI 53792-0001.**

**POSTDOCTORAL POSITION** in gene expression to study transcription factor regulation of *Drosophila* muscle genes in tissue culture and transgenic flies (*PNAS*, 93:4623). Experience in molecular biology is required and experience in *Drosophila* biology is desirable. Position is available immediately. Applicants must have a Ph.D. Send curriculum vitae and names of three references to: **Dr. Robert V. Storti, Department of Biochemistry (MC/536), University of Illinois College of Medicine, 1853 West Polk Street, Chicago, IL 60612. An Affirmative Action/Equal Opportunity Employer.**

A **POSTDOCTORAL POSITION** is available to study structure/function relationships of membrane network proteins in disease states and during cell differentiation and aging. Expression of recombinant proteins, molecular interactions, site-specific mutagenesis, and mechanical and immunochemical analyses of transgenic cells will be conducted. Experience in molecular biology is essential. *U.S. citizens or permanent residents only.* Please send curriculum vitae and three references to: **Dr. L. Amy Sung, Department of Bioengineering, Mail Code 0412, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0412. FAX: 619-822-0240; Email: amysung@bioeng.ucsd.edu.**

## POSITIONS OPEN

### POSTDOCTORAL POSITION AUTOIMMUNITY

Basic mechanisms of Lupus (*J. Clin. Invest.*, 97:2063, 1996; *J. Immunol.*, 154:1470, 1995; *J. Exp. Med.*, 183:2459, 1996). Expertise in cellular immunology required. Send résumé to: **Dr. Syamal K. Datta, Professor of Medicine and Microbiology-Immunology, Arthritis Division, Ward 3-315, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611.**

**POSTDOCTORAL POSITION** to study regulation of cyanobacteria by grazers and micro-nutrients in estuaries. Candidate should have a Ph.D. in ecology, limnology, or marine science and experience in plankton ecology and biogeochemistry. Position requires seasonal residence at coastal field site and frequent travel to Cornell University to work with collaborators. Send letter, curriculum vitae, and names of three references by 1 February 1997 to: **Dr. Michael L. Pace, Institute of Ecosystem Studies, Box AB, Millbrook, NY 12545. Institute of Ecosystem Studies is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.**

**POSTDOCTORAL POSITION** available to study hypoxia-inducible factor 1, a basic-helix-loop-helix transcriptional activator of genes involved in erythropoiesis (EPO), angiogenesis (VEGF), glycolysis (ALDO, ENO1, LDHA, PGK1), and other adaptive responses to ischemia/hypoxia. Cover letter, curriculum vitae, and three reference letters should be sent directly to: **Gregg L. Semenza, M.D., Ph.D., Center for Medical Genetics, CMSC-1004, Johns Hopkins University School of Medicine, 600 North Wolfe Street, Baltimore, MD 21287-3914. FAX: 410-955-0484.**

## ANNOUNCEMENTS

### NASA PLANETARY BIOLOGY INTERNSHIPS

The Marine Biological Laboratory, Woods Hole, Massachusetts, invites applications from graduate students and seniors accepted into graduate programs. Interns will receive awards of \$2,200 plus travel to participate in research at NASA centers and collaborating institutions for approximately eight weeks. Typical intern programs include global ecology, remote sensing, microbial ecology, biomineralization, origin and early evolution of life. Application deadline: March 3, 1997. For information/applications contact: **Michael Dolan, Planetary Biology Internship, Department of Biology, Box 3-5810, University of Massachusetts, Amherst, MA 01003-5810. Email: pbi@bio.umass.edu; Telephone: 413-545-3223. An Equal Opportunity/Affirmative Action Institution.**

### ALBERT LASKER MEDICAL RESEARCH AWARDS

Call for 1997 nominations in the following four categories:  
Basic Research  
Clinical Research  
Special Achievement in Medical Science  
Public Service  
Contact the Lasker Foundation, Telephone: 212-753-8222 to receive a nomination form.  
Deadline for nominations is February 14, 1997.

Call for Papers: Indigenous Peoples: An International SYMPOSIUM will be held in Lincoln, Nebraska on April 8 and 9, 1997. **Walter Echo-Hawk**, Native American Rights Fund, will be featured in conjunction with the E. N. Thompson Forum on World Issues. Proposals due January 15, 1997, for presentations/panels. Contact: **Academic Conferences and Professional Programs, Division of Continuing Studies, University of Nebraska-Lincoln, Lincoln, NE 68583-9600. Telephone: 402-472-2844; FAX: 402-472-9688; Email: accp@unl.edu; http://www.unl.edu/conted/acpp/.**

### FELLOWSHIPS

Center for International Security and Arms Control announces one-year **FELLOWSHIPS** starting fall 1997 for natural scientists and engineers interested in interdisciplinary research on technical and policy problems related to international security. Applications due February 17, 1997. Write: **Barbara Platt, CISAC, Stanford University, 320 Galvez Street, Stanford, CA 94305-6165. Email: bplatt@leland.stanford.edu. Website: http://www.leland.stanford.edu/group/CISAC.**

## COURSES AND TRAINING

### 1997 COURSE ANNOUNCEMENT GENETIC ANALYSIS METHODS FOR MEDICAL RESEARCHERS

This intensive four-day **COURSE** centers on mapping human genetic diseases with emphasis on the mapping of complex/common disease phenotypes. The curriculum covers the entire disease mapping process: developing and integrating clinical classification, pedigree collection, statistical genetic, and molecular analysis. The course emphasizes the global decision-making process and overall study design. A residential conference center setting promotes extensive interactions between the students and faculty.

Date and location: May 4 to 7, 1997, Durham, North Carolina.

Deadline for completed application: February 1, 1997.

For information, write to: **Dr. Margaret A. Pericak-Vance, Box 2900, Duke University Medical Center, Durham, NC 27710** or contact: **Ms. Valerie Roberts, Course Administrator, Telephone: 919-684-6274; FAX: 919-684-6514; Email: genclass@gencmap.mc.duke.edu.**

### Short Course on Time-Resolved Fluorescence Spectroscopy

The Center for Fluorescence Spectroscopy (CFS), at the University of Maryland School of Medicine, is offering a short course on Principles and Applications of Time-Resolved Fluorescence Spectroscopy in Baltimore, March 24 to 28, 1997. The course will cover basic and advanced topics in fluorometry, including time- and frequency-domain measurements, Förster energy transfer, chemical sensing, imaging, fiber optics, infrared fluorometry, two-photon excitation, instrumentation, and fluorescence microscopy. Textbook, course materials, lunches, and refreshments will be provided. The instructors include **Drs. J. R. Lakowicz, I. Gryczynski, and R. B. Thompson**. For further information, a schedule, and fees, please contact: **Ms. Mary Rosenfeld, Ms. Suzy Rhinehart, or Professor J. R. Lakowicz at the CFS, Department of Biochemistry and Molecular Biology, 108 North Greene Street, Baltimore, MD 21201. Telephone: 410-706-8409; FAX: 410-706-8408; Email: cfs@sg.ab.umd.edu.** Deadline for enrollment is February 28, 1997, with later enrollment if space permits.

Doctor of Arts in Biological Sciences: **FELLOWSHIPS** are available for persons interested in the D.A. degree in biological sciences. The program stresses preparation for undergraduate teaching at colleges and universities. Applicants must hold a Master's degree in some area of biology. Deadline for receipt of application is 1 March 1997.

For more information contact: **Chairman D. A. Committee, Department of Biological Sciences, Idaho State University, Pocatello, ID 83209. An Equal Opportunity Employer.**

### CAREER CHANGE OPPORTUNITY

This unique program offers the candidate with an earned doctorate in the sciences the opportunity to obtain the Doctor of Optometry (O.D.) degree in two calendar years. Employment opportunities exist in private practice, industry, education, and research. Contact: **Lawrence Shattuck, M.Ed., The New England College of Optometry, The Office of Admissions, 424 Beacon Street, Boston, MA 02115.**

### Medical University of South Carolina

Medical University of South Carolina (MUSC) offers programs leading to Ph.D. and M.D./Ph.D. degrees in the basic biomedical sciences (biochemistry, microbiology/immunology, pathology, pharmacology, physiology) and molecular and cellular biology, biometry/epidemiology, and pharmaceutical sciences. Competitive stipends of \$15,000 available. Contact: **College of Graduate Studies, MUSC, 171 Ashley Avenue, Charleston, SC 29425-2501.**

### TRACER METHODOLOGY COURSE

Principles and Practice of Tracer Methodology in Metabolism. **Dr. Robert R. Wolfe**, Course Director. A combination of didactic and interactive sessions will address theoretical and practical aspects of tracer methodology in metabolism. Emphasis will be on application of stable isotopic tracers in metabolic studies, but principles of use of radioactive tracers will also be covered. Galveston, Texas. March 2 through 7, 1997. Telephone: 409-770-6623; FAX: 409-770-6825.



#### EDUCATION/RESEARCH

### FACULTY POSITIONS IN PLANT MOLECULAR BIOLOGY UNIVERSITY OF DELAWARE

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Applications including two copies of a full CV, a list of publications, reprints of no more than three papers, and the names and addresses of three professional referees should be sent by 30 January 1997 quoting reference PNAC/ADP to: Mr. B. Tillson, Personnel Manager, MRC Centre, Hills Road, Cambridge, CB2 2QH U.K.

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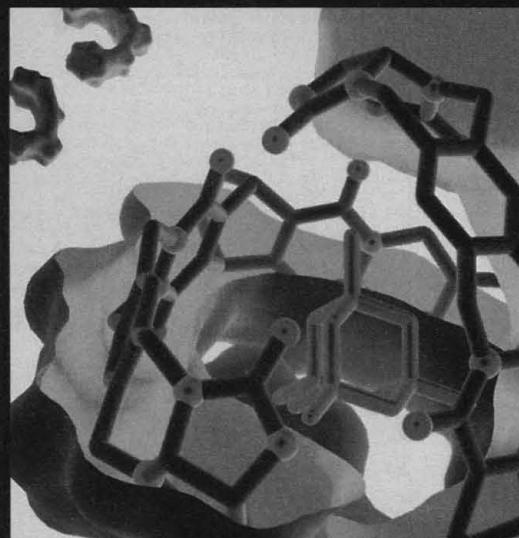
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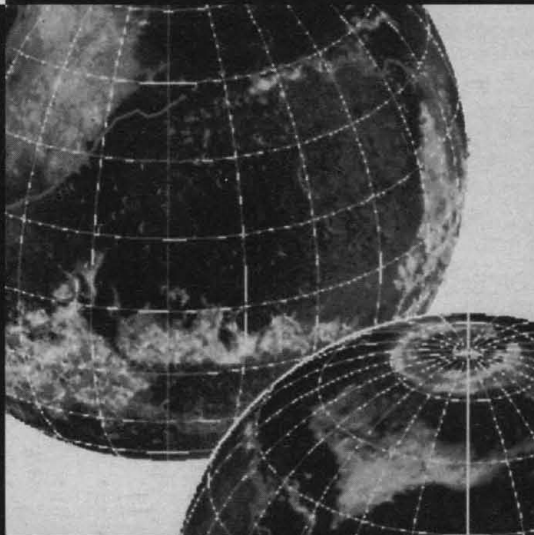
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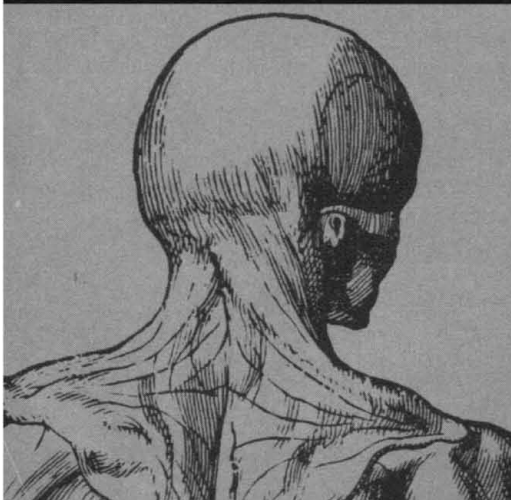
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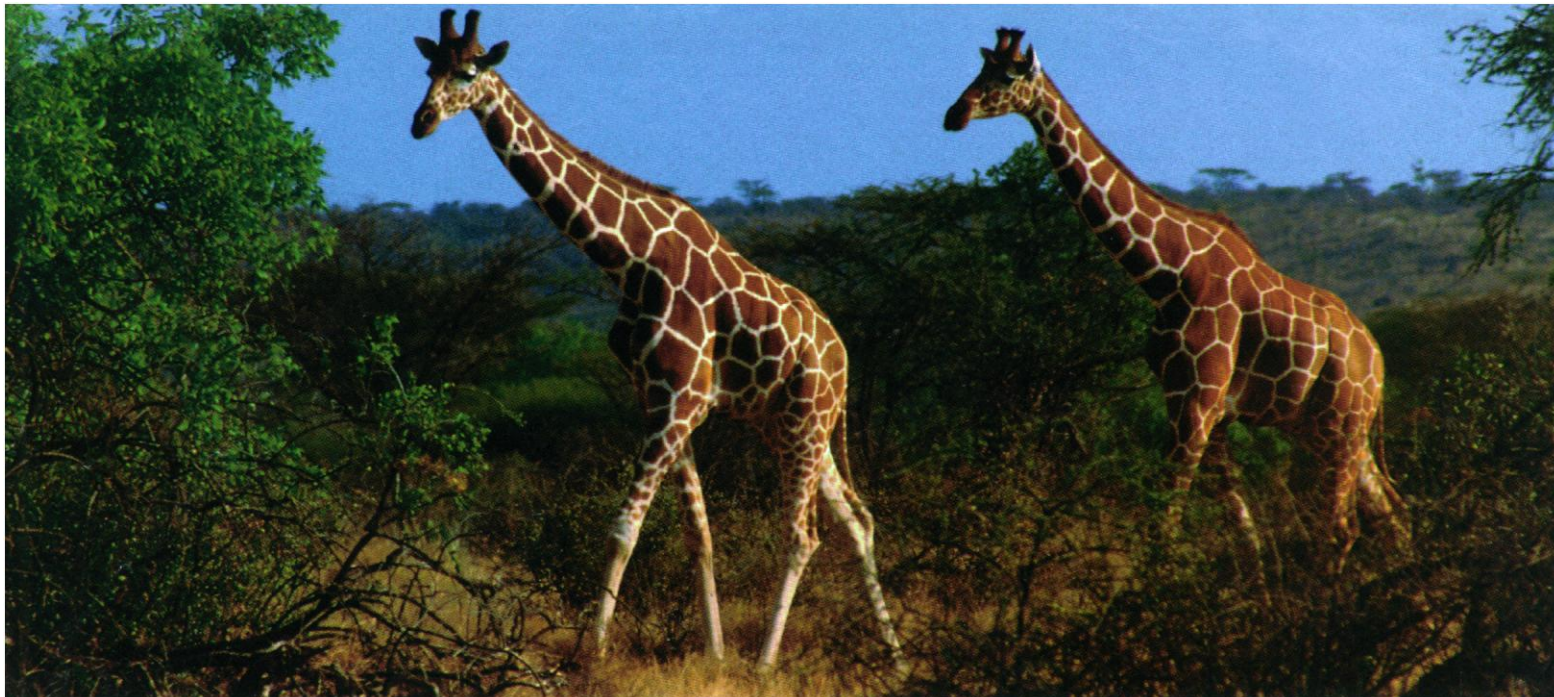
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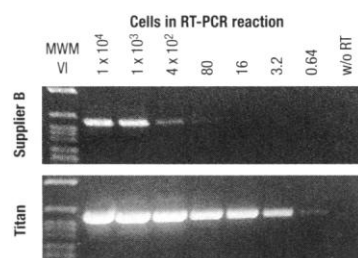


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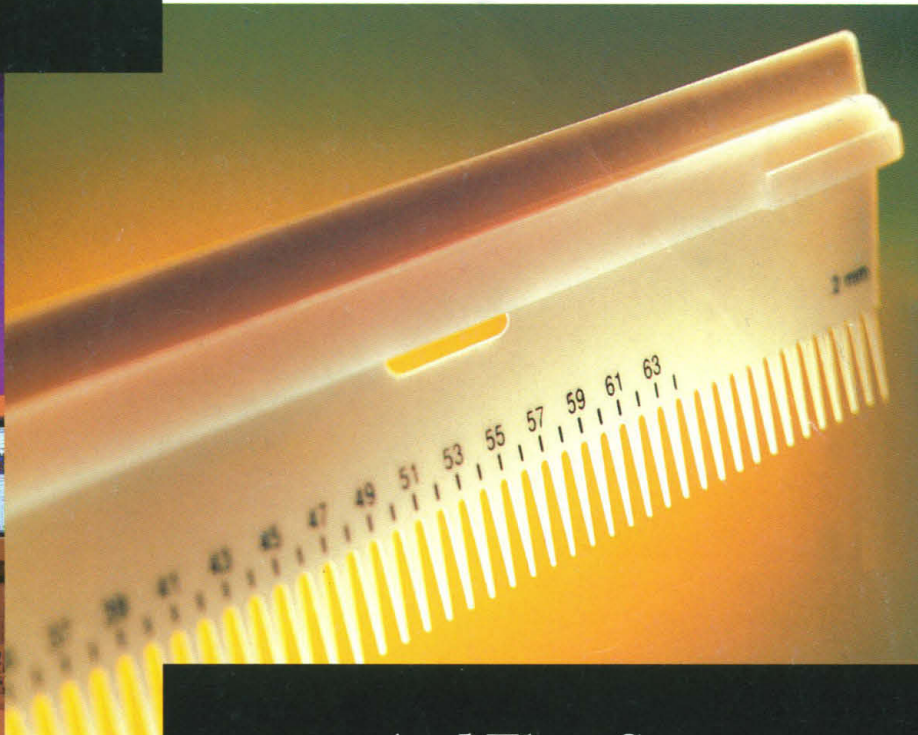
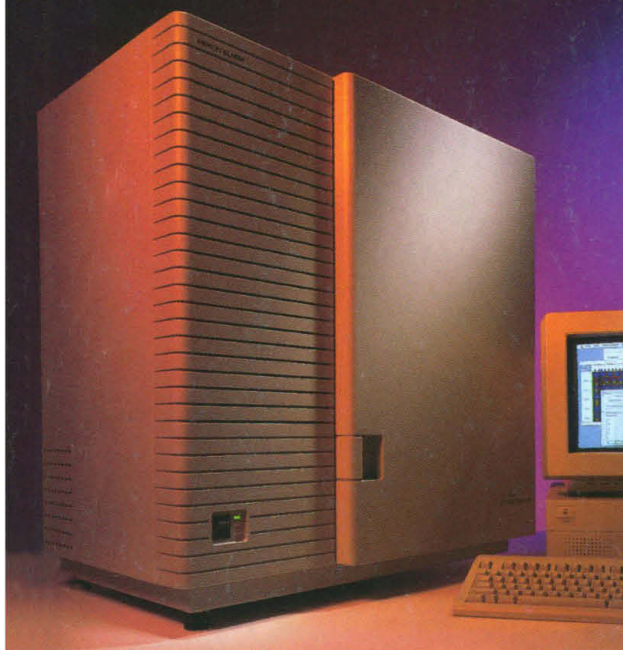
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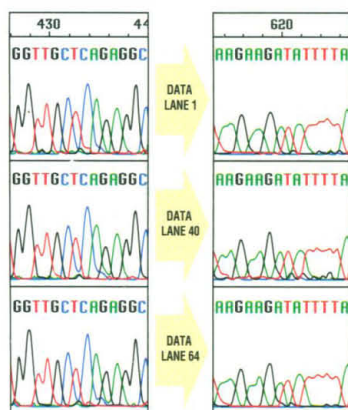
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