brackets. Focusing is done by movement of the nosepiece. Therefore the microscope arm remains stationary to support accessories such as fluorescence and video components. 

**Olympus Optical. Circle 143.**

- **Thermal Cycler**
  The compact BioCycler 101 Thermal Cycler can be used for all biological protocols requiring controlled temperatures from ambient to 99°C. Applications include restriction enzyme digests, DNA sequencing, hybridizations, and primer extensions. Fotodyne. Circle 144.

- **Micropipettor**
  TransferMan is a micropipettor for positioning holding capillaries and for transferring cells. Many different types of tools can be moved easily and precisely under the microscope. TransferMan can be fastened onto all commonly used microscopes, and can be installed and equipped by users themselves. Operation is simple via four self-explanatory keys. Coarse and fine manipulators are integrated and can be operated with one hand. Recurrent operational steps, such as locating work points, can be automated by simply storing up to two positions. Eppendorf. Circle 146.

- **Gel Documentation System**
  The Doc-It System is a low-cost, entry-level gel documentation system designed as an alternative to instant photography systems. It is designed for users who require only documentation without image analysis. Doc-It’s black and white monitor and integration unit link to a 256-gray level thermal printer for high quality, low-cost prints. The thermal printer produces a hard copy image in just 4 s at about one-tenth the cost of instant photography. Print size, brightness, and contrast functions are all included. UVP. Circle 147.

- **Freeze Dryer**
  The Flexi-Dry MP benchtop lyophilizer combines complete microprocessor control and a titanium condenser with a maximum low temperature of -85°C. The short, unrestricted vapor path from product container to condenser allows for rapid drying times. Other features include compact size, an "add product" indicator, safety alarms, and hot-gas defrost. Manifolds are available made of acrylic, Teflon, and stainless steel. FTS Systems. Circle 148.

- **Literature**
  Current Separations is a quarterly publication on electrochemistry, chromatography, and microdialysis. The current issue includes research papers on a new gas-solid chromatography separation technique, a novel thiazolidinedione hypoglycemic, an introductory cyclic voltammetry experiment of ferricyanide, real-time measurement of extracellular glucose using wired enzyme electrodes, and in vitro recoveries for sodium, potassium, chloride, glucose, and lactate in ultrafiltrates and microdialysates from rat subcutaneous tissue. Bioanalytical Systems. Circle 149.

Industrial Computer Source-Book is a 128-page catalog of computer systems and data acquisition, industrial control, and communications products for IBM PC, XT, and AT computers and compatibles. Products include a rackmount file server, Pentium motherboards, and benchtop monitor enclosures to protect against dirt, dust, and falling objects. Industrial Computer Source. Circle 150.
**FACULTY POSITION
DEVELOPMENTAL BIOLOGY**

The Department of Anatomy invites applications for an ASSISTANT PROFESSOR (tenure-track), with research interests in developmental biology. The successful candidate will participate in the Developmental Biology graduate program and the UCSF Program in Biological Sciences (PIBS) and teach in one of the professional school curricula (e.g., Medicine, Pharmacy). A Ph.D., M.D., or equivalent doctoral level degree is required. For outstanding candidates with considerable postdoctoral experience and an academic appointment, Associate Professorship may be considered. To apply, send curriculum vitae and concise statement of research interests and plans (two-page maximum), and request that three letters of recommendation be sent to:

Developmental Biology Search Committee
Department of Anatomy, UCSF
513 Parnassus Avenue, Room S-1334
San Francisco, CA 94143-0452

All materials should be received by January 15, 1997. The University of California is an Affirmative Action/Equal Opportunity Employer.

**ECOLOGY/EVOLUTIONARY BIOLOGY
Assistant Professor**

The Department of Biological Sciences, State University of New York at Buffalo, invites applications for a TENURE-TRACK faculty position at the level of Assistant Professor starting in September 1997. We seek an individual working in the area of Molecular Ecology whose research addresses ecological and evolutionary questions using molecular approaches such as manipulating the genome and following genetic markers within populations and species. The department has active research programs in molecular ecology and molecular systematics, and we have identified molecular ecology as an area of future growth. The successful candidate will be expected to develop an active externally funded research program and to contribute to undergraduate and graduate courses in ecology, including a course in molecular ecology. Candidates should have a Ph.D. and two years of postdoctoral or equivalent experience. Applications, including a curriculum vitae, statement of research and teaching interests, and three letters of recommendation, should be sent to: Dr. Richard R. Ladner, Molecular Ecology Search Committee, Department of Biological Sciences, University at Buffalo, Buffalo, NY 14260 1300. Application review will begin December 15, 1996. Information about the Department and the University can be viewed at: http://wings.buffalo.edu/academic/department/hnsu/bio-sci/index.html.

The State University of New York is an Equal Opportunity/Affirmative Action Employer, and encourages applications from minorities, women, and disabled persons. No applicant shall be discriminated against on the basis of age, creed, color, disability, sex, handicap, marital or veteran status.

**MOLECULAR BIOLOGIST**

The Biology Department at Carthage College invites applications for a TENURE-TRACK, Assistant Professor position in molecular biology and botany. Carthage is a dynamic liberal arts college with a commitment to developing the potential of each student. The college is located between Chicago and Milwaukee, allowing the faculty to take advantage of the academic environments of both cities. The department has a strong background in experimental biology, experience in applying molecular techniques to problems in botany, commitment to teaching at the undergraduate level, and enthusiasm for involving students in research projects, and a desire to pursue external funding. The Department is well-equipped for many teaching and research applications, including a current curriculum vita, transcripts, and three letters of reference, should be submitted to:

Dr. Charlotte Chell, Chairperson
Department of Biology
Carthage College
Kenosha, WI 53140

Review of applications will begin on December 15, 1996.

Carthage is an Equal Opportunity Employer and specifically invites and encourages applications from women and minorities.

**NEURAL CIRCUITS
UNIVERSITY OF PITTSBURGH**

Applications are invited for a TENURE-TRACK faculty position at the Assistant Professor rank in the Department of Neuroscience. A successful candidate will conduct a competitive, independent research program investigating cellular mechanisms of synaptic integration in the central nervous system (or cortical afferents). Applicants should have expertise in biological approaches in vivo, preferably combined with structural and/or computational methods. The position requires a Ph.D. and/or M.D. with at least two years of postdoctoral experience. Competitive salary support and start-up funds are provided. Applicants should submit by January 31, 1997, a curriculum vitae, a detailed description of future research goals, representative publications, and names and addresses of three references to: Dr. Pat Levitt, Chair, C/O Circuit Search Committee, Department of Neurobiology, University of Pittsburgh School of Medicine, E1440 Biomedical Science Tower, Pittsburgh, PA 15261.

The University of Pittsburgh is an Equal Opportunity Employer.

**CLINICAL RESEARCH NEUROLOGIST
NEURODEGENERATIVE DISEASE**

The University of Connecticut School of Medicine

A key focus of the School of Medicine’s strategic plan calls for the creation of a neurodegenerative disease initiative utilizing fast magnetic resonance imaging as a research tool. Having already expanded relevant basic research, we are now in a position to develop related clinical research.

To support this program, a new MRI scanner with echo-planar capability that permits functional imaging has been acquired, and we have dedicated a considerable portion of its use for research purposes. Additional start-up monies have been made available, and new positions have been created in neurology, psychiatry, and imaging science. In addition to making individual contributions, these three individuals will constitute a team dedicated to the study of neurodegenerative disease through the application of contemporary imaging science.

The TENURE-TRACK position in neurology requires a clinical researcher who uses imaging as a major component of his or her research program. Examples include a clinical scientist with experience in behavioral neurology, immunoneurology or multiple sclerosis, Alzheimer’s or other dementia illnesses, or motor disorders such as Parkinson’s disease.

Candidates must be Board-eligible/certified in neurology with fellowship training and research experience. Please submit resumes to:

Leslie Wolfson, M.D.
Professor and Chair, Department of Neurology
The University of Connecticut School of Medicine
Farmington, CT 06030-1845

(Search Code 96-304).


MACMURRAY COLLEGE

MacMurray College, a private United Methodist liberal arts college, has a TENURE-TRACK position commencing fall 1997. Ph.D. required. Expectations: teach in the areas of biology/environmental biology (including a field component) as well as zoology, vertebrate anatomy, and introductory botany. Application, curriculum vitae, teaching philosophy, graduate transcripts, and three references should be sent by December 6, 1996 to: Dr. Jim Goulding, Dean of the College, MacMurray College, 447 East College, Jacksonville, IL 62650. Affirmative Action/Equal Opportunity Employer.
Division of Agriculture and Natural Resources

Applications and nominations are invited for the position of Director of the Natural Reserve System of the University of California, encompassing more than 100,000 acres distributed among 33 academic reserves, representing most of California’s major ecosystems.

We are seeking a Director with administrative and academic experience, who will be an advocate for the NRS within the University, promote the NRS to appropriate private citizen groups, agencies and institutions, and initiate and execute NRS fundraising activities. We expect the incumbent to be qualified for an academic position within the University of California. Salary range (MSP v) is $71,300-$107,000. Salary will be commensurate with experience. Review of applications will begin on January 1, 1997.

Please send letter of interest and curriculum vitae to: Management Recruitment, Search Committee, 0-96, Director of the Natural Reserve System, Office of the President, University of California, 100 Lakeside Drive, 9th Floor, Oakland, CA 94612-3560.

Affirmative Action/Equal Opportunity Employer.

Tenure Track Faculty Positions

Department of Anatomy and Cell Biology

The Department of Anatomy and Cell Biology, chaired by Harvey B. Pollard, Ph.D., M.D., at the Uniformed Services University (USU) School of Medicine, invites applications for tenure-track positions at the Assistant or Associate Professor level. Positions are 12-month appointments with full salary. Applicants should have a Ph.D. and/or M.D. degree, a strong record of outstanding scientific accomplishment, and demonstrated ability or potential to establish and support a competitive, independent research program. The successful applicant will also have the opportunity to contribute to the Department’s award-winning teaching programs for Medical and Graduate Students. USU is located in Bethesda, Maryland, immediately adjacent to the National Institutes of Health, the National Library of Medicine, the National Naval Medical Center, the Armed Forces Radiobiological Research Institute, and the Howard Hughes Medical Institute; all share the “Medical Center” subway station. Current Departmental research strengths include neuroscience, molecular and cellular biology, medical genetics, developmental biology, and electrophysiology. Outstanding core facilities are available for state-of-the-art EM and optical imaging, molecular biology, and veterinary science. See our world wide web site for further details (http://www.usuhs.mil). Affiliations with the Department’s Institute for Molecular Medicine, and with other basic science and clinical departments in the School of Medicine are added opportunities for prospective faculty members. Salaries are competitive and commensurate with education and experience. Applicants should send a complete curriculum vitae and bibliography, a brief NIH “page 6,” an outline of their proposed research program, and names and addresses of three referees to:

Department of Anatomy and Cell Biology

Search Committee

Attn: CHRD/TP

Uniformed Services University of the Health Sciences

F. Edward Hébert School of Medicine

4301 Jones Bridge Road

Bethesda, MD 20814-4799

Applications must be received by January 1, 1997. Foreign nationals will only be considered if qualified United States citizens are not available.

USUHS is an equal opportunity employer with a strong commitment to racial, cultural, and ethnic diversity.

GEORGE MASON UNIVERSITY

Chair - Department of Biology

Applications and nominations are invited for the position of Chair of the Biology Department at George Mason University to commence in Fall 1997. The department is seeking a dynamic leader with proven administrative abilities, a distinguished record of research productivity and extramural support, demonstrated excellence in teaching, and a commitment to undergraduate and graduate education. Candidates in all areas of biology are encouraged to apply. The chair will lead a department of 30 full-time faculty with a broad range of research interests. The department offers undergraduate degrees in biology and medical technology (over 800 students), an MS degree in biology, and a PhD degree in environmental science and public policy (over 200 students). The chair will also help shape the department's interaction with the American Type Culture Collection and the recently established Molecular Bioscience and Technology Institute at GMU's campus in Manassas, VA.

George Mason is the state university for northern Virginia and is located in the metropolitan Washington, DC area. Approximately 24,000 students are enrolled. Candidates should send a letter of interest, curriculum vitae, and representative publications and should request that three letters of reference be sent to:

Chair Search Committee

Biology Department

MSN 3E1

George Mason University

4400 University Drive

Fairfax, VA 22030-4444

The closing date for applications is January 15, 1997. George Mason University is an EEO/AA institution. Minorities and women are encouraged to apply.

Department of Geosciences

PRINCETON UNIVERSITY

announces the 1997 competition for the

Harry Hess Fellows

An Honorific Postdoctoral Fellowship program named for Harry Hess has been established to provide opportunities for outstanding geoscientists to work in the field of their choice. Research may be carried out independently or in collaboration with members of the Geosciences Department. The Fellowships provide an annual stipend along with an allowance for research support. The Fellowships are awarded for one year with a nominal starting date in September of 1997. Extensions for an additional year are possible. Applicants will also be considered for other available postdoctoral positions in the Department. Current areas of research include:

- Geochemistry
- Biogeochemical Cycles
- Paleontology
- Mineralogy
- Petrology
- Structural Geology
- Solid-Earth Geophysics
- Seismology

Candidates should send a letter of application and the supporting materials listed below to the Hess Fellows Committee, c/o Professor George Philander, Department of Geosciences, Princeton University, 113 Guyot Hall, Princeton, NJ 08544. Applications must be received no later than January 31, 1997.

1. Curriculum vitae
2. List of publications and preprints
3. Brief statement of research interests and goals
4. Names and addresses of three referees familiar with the candidate's work (the candidate should arrange to have the letters of recommendation sent directly to the address above).

Princeton University is an Affirmative Action/Equal Opportunity employer and particularly welcomes applications from women and members of minority groups.
Located in Dallas, Texas, our new research effort focuses on novel therapeutic approaches, such as cell therapy using dendritic cells and gene therapy, to treat immune-related diseases such as autoimmunity, cancer, allergy, infectious diseases, and improve organ transplantation.

While provisional laboratories are presently available, a new 42,000sqft facility is being developed for occupancy in the spring of 1998. This institute will be located on the campus of Baylor University Medical Center, which is among the largest non-profit hospitals in the United States. Up to 10 laboratories will be provided for basic scientists who will focus their efforts on key clinically relevant problems.

We are seeking established investigators who are highly motivated to understand human diseases and contribute to their cure. Successful candidates will have an MD and/or PhD in the appropriate field, an outstanding publication record, a minimum of five years relevant research experience beyond the doctoral degree, and a demonstrated ability to obtain independent funding to complement their funding from the growing endowment. The candidates are expected to lead teams comprising up to 18 members (technicians, post-docs, students) based upon available funding. Core groups for image analysis, tissue culture, and nucleic acid sequencing as well as an animal facility will be available to support the various laboratories. These investigators are expected to enjoy working as part of a team effort with the Institute staff and Medical Center clinical staff. Physician researchers will have an opportunity to participate in the clinical programs of the Medical Center.

**Investigator in Cancer Biology-Immunology**

The candidate should be experienced in either tumor immunology, in vivo therapy of mouse/human tumors, and/or the molecular biology of carcinogenesis. The candidate is expected to demonstrate a particular interest in a vaccine approach to cancer, with the goal of treating patients.

**Investigator in Molecular Immunology**

The candidate will have extensive experience in molecular biology, preferably as it applies to immunology. Specifically, the candidate should be experienced in either cloning-expression of cytokines and signal transduction molecules, the construction of vectors for gene therapy, or the development of transgenic animals. An ideal candidate will demonstrate a strong interest in the cellular and molecular biology of dendritic cells.

**Investigator in Immuno Pathology**

The candidate will have extensive experience in the study of normal and abnormal immune responses in animal models as well as in humans. The candidate should be experienced in either study of cell trafficking leading to the immune responses, or the design of animal models mimicking human diseases. A specific interest in the trafficking of dendritic cells would be ideal. This investigator is expected to work in close collaboration with clinicians of various specialties.

**Junior and Senior Postdoctoral Fellowships**

A number of three-year arrangements are available for either recently graduated or more experienced PhD/MD to study the pathophysiology of human dendritic cells with J. Banchereau. Previous experience in molecular/cellular immunology is desirable.

If interested and qualified, please respond to specific positions with curriculum vitae and a one page synopsis of your research objective to: Jacques Banchereau PhD, Director Baylor Institute for Immunology Research Baylor Research Institute P.O. Box 710699 Dallas, Texas 75246

*No Agency referrals please*

Affirmative Action/Equal Opportunity Employer
Targeted Genetics Corporation is a Seattle-based biotechnology company developing integrated gene and cell therapies for the treatment of acquired and inherited diseases. The company has an extensive technology platform and three lead product development programs targeting cystic fibrosis, breast and ovarian cancer, and HIV cell therapy. Continued success has created several career opportunities within our organization:

**Director of Molecular Biology**

Play a significant role in providing scientific leadership to drive research into preclinical testing for the company's gene and cell therapy clinical trials. Take primary responsibility for developing novel gene delivery systems for *in vivo* gene therapy. Candidates must possess strong research and publication experience, as well as proven management skills, preferably in an industrial setting. Ph.D. with expertise in some or all of the following areas required: molecular biology, biochemistry, cell biology, intracellular trafficking, and gene therapy.

**Staff Scientist - Vector Process Development**

Develop, optimize and scale-up production processes for gene therapy vectors. Experience in producing viral vectors or vaccines required. Integrate virological, molecular and biochemical techniques to monitor and validate processes. Knowledge of quality control, cGMP and regulatory requirements required. Ph.D. in cell biology, virology or biochemistry and minimum of 1-3 years relevant experience required.

For consideration, please submit your C.V. to:

**Targeted Genetics Corporation**  
Human Resources  
1100 Olive Way, Suite 100  
Seattle, WA 98101  
Fax: (206) 521-7872  
e-mail: careers@target.com

**TGC is an Equal Opportunity Employer**

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**Associate Scientist/Scientist**

Athena Neurosciences, Inc. is a growing biotechnology-based company committed to the discovery and development of new products to diagnose and treat diseases of the central nervous system. We are looking for an outstanding individual to join our Alzheimer’s Disease Therapeutic Program.

This position involves the use and characterization of neuronal tissue culture models and the PDAPP transgenic mouse model of neurodegeneration for the discovery and development of therapeutics for the treatment of Alzheimer’s disease and related disorders. You will develop biochemical assays for the characterization of these disease models and the development of small molecule inhibitors of novel mechanistic targets. The position requires a Ph.D. in Neurobiology or related discipline and 3-4 years of post-doctoral experience. The ideal candidate will be proficient in neuronal tissue culture and basic methods of neurobiology research (cell biology, biochemistry, immunohistochemistry, and molecular biology techniques) and be extremely well-versed in cellular neurobiology and the biochemistry of signal transduction pathways.

Athena offers an innovative and exciting professional, scientific environment in addition to competitive salaries and benefits. Please send resume to: Athena Neurosciences, Inc., Human Resources, Attn: Job# SC1122-AS, 800 Gateway Blvd., South San Francisco, CA 94080. EOE
SCIOS is a biopharmaceutical company engaged in the discovery, development, manufacture, and commercialization of novel human therapeutics. The Company’s research and development efforts are primarily focused on acute cardiovascular and renal disorders. We currently have the following excellent opportunities available:

Scientist
Genomics Technology

The Genomics Technology group is advancing new methodologies to be applied in the area of cardiovascular disease towards identifying new therapeutics and drug targets. We seek an experienced Scientist to conduct molecular/cell biology research towards identification and characterization of novel targets related to cardiovascular disease. You must possess a PhD in Molecular or Cell Biology with experience manipulating DNA and RNA including cDNA cloning, expression cloning, and DNA transfection. Ref.: 96-071.

Senior Scientist
Research Protein Chemistry

This senior-level Scientist is sought to lead our new Research Protein Chemistry group. You will work closely with the Recombinant Expression group to design expression systems for production of protein reagents for multiple research project teams. You will provide protein purification and characterization for Research projects. You must be prepared with a PhD and 4-8 years’ experience, including postdoctoral work. Extensive protein purification experience is desirable, particularly from recombinant sources. Ref.: 96-001.

Scientist/Senior Scientist
Protein Chemistry & Process Development

An energetic, team oriented self-starter is needed to develop and implement in-process HPLC assays for protein-based pharmaceutical products. This successful, detail-oriented candidate will report to the Department Head of Protein Chemistry and Process Development. You must possess a PhD or BS/MS with 5+ years’ industry experience along with proven expertise in protein assay development; experience in assay of crude feed streams is highly desirable. Ref.: 96-062.

It is the policy of Scios Inc. to afford Equal Opportunity in employment. Applicants are considered on the basis of their qualifications without regard to race, color, religion, sex, national origin, age, marital status, or the presence of a non-job-related medical condition or physical disability.

Enjoy the benefits of Scios’ competitive salaries and excellent benefits package. Please respond to Scios Inc., Human Resources, Ref.: ______, 2450 Bayshore Parkway, Mountain View, CA 94043. Or FAX to 415/962-5966.
POSTDOCTORAL POSITIONS
INTEGRATED STRUCTURAL BIOLOGY RESOURCE

Los Alamos National Laboratory is seeking energetic and talented scientists for multiple postdoctoral opportunities in the newly formed Integrated Structural Biology Resource (ISBR). In particular, we seek individuals who are interested in combining physical and biochemical approaches to study the structural biology of DNA damage and repair systems. Los Alamos National Laboratory has made a commitment to establish the ISBR as a new interdisciplinary initiative involving biological and biochemical approaches, theory, crystallographic structure determination, laser spectroscopic probes of structure and dynamics, structural NMR, and determination of higher-order structures by neutron and X-ray scattering. Exceptional candidates will be considered for highly competitive Los Alamos Postdoctoral Research Appointments or J. Robert Oppenheimer Research Fellowships. For more information, access our home page at http://www.isbr.lanl.gov

Current research programs within the resource include:

- D. Chen, M. Park, S. Peterson, Z. Shen: Biochemical, genetic and structure-function studies of DNA repair and recombination.
- J. Berendzen, T. Terwilliger: Protein crystallography, DNA-protein interaction, MAD phasing, and protein dynamics.

A Ph.D. within the last three years or soon to be completed is required. Annual starting salaries currently range from $44,020 to $47,570 plus a generous, comprehensive benefit package. For consideration, submit TWO COPIES of a curriculum vitae and publication listing (including the names, addresses and phone numbers of at least three people who will provide references) to: Postdoctoral Program, Advertisement PD86172, Los Alamos National Laboratory, MS P230, Los Alamos, NM 87545. Affirmative Action/Equal Opportunity Employer. Individuals with disabilities needing reasonable accommodation should call (505) 667-8622. A Teleype Device for the Deaf (TDD) is available by calling (505)665-6357. Los Alamos National Laboratory is operated by the University of California for the US Department of Energy.

Los Alamos
NATIONAL LABORATORY

SYMPOSIUM

The University of Pennsylvania
Departments of Chemistry and Pharmacology

proudly presents

Enzyme Symposium III: Recent Advances in Mechanism and Structure and Their Implications for Drug Design

March 13, 1997, Austrian Auditorium, Clinical Research Building

Metalloenzymes
David Ash, Temple Univ.
Dennis Stuehr, Cleveland Clinic
John Tainer, Scripps
Julian Petersen, Univ. of Texas Southwestern Medical Center

Proteases and their Inhibitors
Harvey Rubin, Univ. of Pennsylvania
Joel Huff, Merck Research Laboratories
Wolfram Bode, Munich, Germany

Combinatorial Protein Libraries/Molecular Recognition
Ronald Hoess, DuPont Merck
Peter Kim, Whitehead Institute
Paul Axelsen, Univ. of Pennsylvania

Rational Approaches to Drug Design
Richard Silverman, Northwestern Univ.
Charles Carter, Univ. of NC, Chapel Hill

Registration Information: Graduate Students: $10.00; Faculty Members: $50.00; Scientists from Profit Organizations: $100.00. Checks must be received by Friday, February 21, 1997. On-site registration will be available at a higher cost.

Please contact one of the sponsoring departments for a registration form:

Department of Pharmacology
153 Johnson Pavilion
Philadelphia, PA 19104-6084
phone (215) 698-1184; fax (215) 573-9135
http://www.med.upenn.edu/~pharm/enzyme.html

Department of Chemistry
350 Chemistry Building
Philadelphia, PA 19104-6325
phone (215) 898-5714; 898-4771
fax (215) 573-2201

1997 MBL MICROBIOLOGY COURSES
WOODS HOLE, MASSACHUSETTS

MICROBIAL DIVERSITY, June 15 - July 31
For graduate students, postdocs, and established investigators who want to become competent in microbiological techniques for working with a broad range of microbes, and become familiar with modern molecular genetic approaches for understanding both possible affinities of as yet uncultivated bacteria and for understanding putative phylogenetic relationships. Limited to 20 students. Directors: Edward R. Leadbetter, University of Connecticut; and Abigail Salyers, University of Illinois. Application Deadline: March 3. Tuition: $3,600

MOLECULAR MYCOLOGY: Current Approaches to Fungal Pathogenesis, August 10 - 30
This course provides state-of-the-art training in molecular methods for fungal pathogens important in human disease. Intended for advanced graduate students, postdocs, and independent investigators. Limited to 16 students. Director: Aaron P. Mitchell, Columbia University. Application Deadline: April 15. Course Fee: $2,000 (room & board offered at no additional charge).

Substantial financial aid is available. Admission to MBL courses is determined by review committee appointed for each individual course, based upon information submitted in candidate applications. Women and minorities are encouraged to apply.

For application forms and information, contact: Admissions Coordinator, Marine Biological Laboratory, 7 MBL Street, Woods Hole, MA 02543-1015. Phone: (508) 289-7401 E-mail: admissions@mbli.edu • Web: http://www.mbl.edu

POSTDOCTORAL RESEARCH POSITIONS
CELLULAR IMMUNOTHERAPY

Two positions are available in the development and implementation of CTL-based therapies for EBV-positive Hodgkin's disease and HPV 6- and 11-associated laryngeal papillomatosis. Part of the work will be carried out in a state-of-the-art CGMP facility. Applicants should have a Ph.D. and a strong background in cellular immunology, tumor cell biology or molecular virology. Please send curriculum vitae and three letters of reference to:

Clima Rooney, Ph.D.
St. Jude Children's Research Hospital
332 N. Lauderdale Street
Memphis, TN 38105

St. Jude Children's Research Hospital is an Equal Opportunity, Affirmative Action Employer.
**Signal Transduction Group**

Scientists will direct research that defines key steps in signal transduction leading from the insulin receptor to glucose transport. Novel approaches to the identification of molecules involved in insulin signaling are employed to define key steps in this pathway. Experience in recombinant expression of proteins, protein-protein interactions, molecular cloning, and cellular fractionation is preferred.

**Assay Development Group**

This scientist will direct a group that develops both cell and protein-based assays for drug discovery efforts in insulin resistance, utilizing targets defined by the signal transduction group. Preference will be given to candidates who have at least 2 years of experience in the pharmaceutical or biotech industry, in addition to the requirements listed above. Experience with the development of assays suitable for high-throughput screening programs is desirable.

Metabolex offers competitive salaries and benefits. More detailed information about research and scientists at Metabolex is available upon request. Qualified applicants should send a curriculum vitae to: Metabolex Inc., Director of Human Resources, 3876 Bay Center Place, Hayward, CA 94545. Metabolex is an equal opportunity employer.
HOOD COLLEGE
Assistant Professor of Biology (2 Positions)
The Hood College Department of Biology invites applications for two positions at the level of Assistant Professor, beginning Fall 1997. We seek candidates who will have completed their doctoral studies by the time of appointment; who show promise of excellence in teaching, together with a willingness to involve students in their research; and whose record of research indicates the potential for sustained scientific accomplishment. Both positions involve responsibilities at the undergraduate and graduate levels, both call for teaching courses in environmental science and resource management, as well as in the candidate’s field of specialization.

1) Ecologist: Ph.D. in ecology or related field; interests spanning several levels of organization, such as population, community, and ecosystem study.

2) Organismal Biologist: Ph.D. in the biological sciences, with preference given to those broadly trained in behavioral/evolutionary ecology and specializing in vertebrates.

A selective residential college for women since its founding in 1893, Hood also serves commuting men and women and graduate students. The Department of Biology offers undergraduate degrees in biology and in environmental science and policy as well as Master’s degrees in environmental biology and biomedical science.

Applicants for either position should submit a curriculum vitae, a letter specifically addressing the characteristics outlined in this announcement, a description of current and projected research interests, and three letters of recommendation to: Dr. Drew M. Ferrier, Biology Search Committee, Department of Biology, Hood College, 401 Rosemont Avenue, Frederick, MD 21701. Review of applications will begin on 21 January 1997. E.O.E.

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 UNC Wilmington 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 recruitment, and conduct active outreach in 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, UNC Wilmington, Wilmington, NC 28403; Telephone: 910-962-3706; FAX: 910-962-4066; Email: Cahoon@uncwil.edu; Homepage: www.uncwil.edu

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

ASSISTANT PROFESSORS
Department of Biochemistry, Biophysics and Genetics
UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER
We are currently entering a phase of rapid expansion, and several positions will be filled over the next few years. We are now seeking applications for faculty positions in the broadly defined areas of molecular biology and biochemistry. Candidates should have a strong record of research accomplishments, and will be expected to pursue a vigorous, independent research program. Teaching interests and expertise should be suitable for a biochemistry department. Applications should include a curriculum vitae and a statement of research plans. Candidates should also arrange to have three or more letters of recommendation forwarded to:
Dr. Tom Blumenthal, Chairman Designate, Department of Biochemistry, Biophysics and Genetics, University of Colorado Health Sciences Center, Campus Box B-121, 4200 E. Ninth Avenue, Denver, CO 80262 For full consideration, completed applications should be received by January 15, 1997.
The University of Colorado Health Sciences Center is committed to equal opportunity and affirmative action.

SYSTEMATICS AND EVOLUTION OF LAND PLANTS
University of Michigan
The Department of Biology and the University Herbarium seek to fill a tenure-track position in the systematics and evolution of land plants at the level of Assistant Professor, although applications from candidates at all ranks will be considered. People who work with all groups of land plants and use all research methods are encouraged to apply, but preference will be given to those who study bryophytes or pteridophytes and to those who incorporate molecular techniques and data into their research. The successful candidate must be qualified to teach undergraduate and graduate courses in systematics and evolve-
Tenure-Track Positions
Assistant Professor Equivalent

Characterization of Chemokine-Receptor Interactions
The Laboratory of Molecular Immunoregulation, NCI, Frederick, MD is seeking an investigator to conduct independent research on studies of cytokines. Applicants should have a PhD or MD, strong record of scientific accomplishments, strong background in chemokines and their receptors, experience in immunology and molecular biology as demonstrated by high quality peer review published research reports. Space, technical and postdoctoral support provided. Applicants must be U.S. citizens or permanent residents. Submit applications to Dr. Philip Murphy, Chairperson (OE-121), Tenure-Track Search Committee, NIAID, Building 10, Room 11N113, 10 CENTER DR MSC 1888, BETHESDA MD 20892-1888. Deadline is December 15, 1996.

Geneticist
The Laboratory of Biochemistry and Genetics seeks outstanding applicants interested in developing independent studies of problems of their choosing, using genetics combined with other methods. Preference will be given to those using the simplest system appropriate to solving the problem posed. Candidates should have established strong research credentials with a substantial publication record in leading journals. Submit applications to Search Committee, Laboratory of Biochemistry and Genetics (OE-121), NIDDK, Building 8, Room 225, 8 CENTER DR MSC 0830, BETHESDA MD 20892-0380.

Medical Oncologist – Translational Researcher
The Navy-Medical Oncology Branch, NCI, seeks an MD or PhD scientist to develop an independent translational research program that operates at the interface of cancer biology and patient diagnosis, treatment, or long-term management, particularly for patients suffering from breast, colon, or lung cancer. Space, technical support, supply budget, and salary are committed. Applicant should be board certified in Medical Oncology. Applicants must be U.S. citizens or permanent residents. Applications must be received within four weeks of the publication of this advertisement. Send to Dr. J. Silvio Gutkind, Chairperson (OE-121), Building 30, Room 211, 30 CONVENT DR MSC 4330, BETHESDA MD 20892-4330.

To Apply
Please send a cover letter, curriculum vitae, bibliography, a one- to two-page statement of research interests and goals, and selected publications to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three references who can provide an evaluation of your professional qualifications.

New WWW Site
Visit the new NIH Office of Education web site listing tenure-track positions, postdoctoral positions, and much more. Converse by e-mail with NIH investigators and apply electronically. Find us at http://helix.nih.gov/8001/oe

National Institutes Of Health
Office Of Education
http://helix.nih.gov/8001/oe
The NIH is an Equal Opportunity Employer

NATIONAL SCIENCE FOUNDATION
NSF's Division of Biological Infrastructure (DBI), the Division of Environmental Biology (DEB), the Division of Integrative Biology and Neuroscience (IBN), and the Division of Molecular and Cellular Biosciences (MCB) seek qualified applicants to serve as Program Directors under the provision of NSF's rotational program in the areas listed below.
Responsibilities include research proposal evaluation, budget development, and scientific planning. Broad knowledge and specific research accomplishment are key qualifications. Positions will be filled on a one- or two-year rotational/temporary basis beginning late summer/early fall 1997. The current salary range is $62,473 to $97,366; qualification requirements are a Ph.D. or equivalent experience plus six or more years of research experience beyond the Ph.D. For information RE: DBI programs: Instrumentation, Data Bases, and Computational Biology, call Dr. James H. Brown, 703/306-1470: RE: DEB programs: Population Biology, Systematics, Ecology, Ecosystem Studies, Research Collections, Biotic Surveys, and Inventories, call Dr. Thomas E. Brady, 703/306-1480; RE: IBN programs: Developmental Mechanisms, Physiology and Ethology, and Neuroscience, call Dr. Bruce L. Mumminger, 703/306-1420; RE: MCB programs: Biochemistry, Biophysics, Genetics, and Cell Biology, call Dr. Julius H. Jackson, 703/306-1440.
Applicants must submit a resume or other application format of choice. Application must specify the job title for which you are applying, and should include the following information: country of citizenship; information about education, including major and type and year of degree(s); complete information about experiences related to this job, including job titles, duties and accomplishments, employer's name and phone number, starting and ending dates and year, and salary to: National Science Foundation, Staffing and Classification Branch, Suite 315, 4201 Wilson Boulevard, Arlington, VA 22230, Attn: Catherine Handle. Hearing impaired individuals should call 703/306-0189. NSF is an Equal Opportunity Employer.

University of New England
Biddedford, Maine USA

SCIENCE FACULTY
The University of New England invites applications for four undergraduate tenure track faculty positions at the Assistant Professor level. The Ph.D. degree or equivalent is required. We seek outstanding candidates with demonstrated excellence in teaching as well as a commitment to undergraduate education and curriculum development based upon an integrative and interdisciplinary approach to student learning. Candidates are strongly encouraged to establish research programs involving undergraduates. A new $16.5M Alfond Science Center will provide excellent and well-equipped laboratory facilities for teaching and research.
1. Biochemistry: Ability to teach general chemistry and biochemistry. Development of advanced biochemistry course offerings in the candidate's area of expertise is expected.
2. Physics/Marine Physics: Ability to coordinate the Department's curriculum in algebra-based general physics and to teach first-year life and health science majors. Preference will be given to candidates with marine interests to take advantage of UNE's affiliation with Bigelow Laboratory of Ocean Sciences.
3. Cell/Molecular Biology: Ability to teach genetics and help continue development of the department's integrated and linked courses in cell biology and biochemistry. Development of advanced molecular course offerings is expected.
4. Biology/Microbiology: Ability to teach introductory biology within the one-year Environmental Learning Community and help develop this unique program of linkages between biology and environmental issues. Ability to teach microbiology occasionally to nursing and pre-med students is also desirable.
UNE is a growth-oriented, young institution located in coastal Southern Maine, only 30 minutes from Portland and 90 minutes from Boston. Salary is commensurate with rank and experience, with an attractive benefits program. Please send letter of application, curriculum vitae, transcripts, a statement of teaching philosophy and research interests, and three letters of recommendation by January 1, 1997, to: Michael Miles, Director of Human Resources, University of New England, 11 Hills Beach Road, Biddeford, Maine 04005. For more information, visit our homepage at http://www.une.edu.
UNE is an Equal Opportunity, Affirmative Action Employer.
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.biocombiochem.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.
Postdoctoral Research Associate position is available immediately for a project on DNA repair gene transfer as a means to protect bone marrow against anticancer alkylating agent toxicity (see Blood 88:2298-2305, 1996). Qualified candidates must have a recent Ph.D in biochemistry, molecular biology or related field and a strong background in molecular genetics. Experience with use of viral vector systems is highly desirable.

Send c.v. and names (e-mail address, fax and phone numbers) of three references to: Dr. Thomas P. Brent, Department of Molecular Pharmacology, St. Jude Children’s Research Hospital, 332 N. Lauderdale, Memphis, TN 38105. e-mail: brent@stjude.org Fax: 901-521-1668. An equal opportunity/affirmative action employer.

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**FACULTY POSITIONS**

**INDIANA UNIVERSITY CANCER CENTER**

Applications are being accepted for tenure-track faculty positions at the rank of Assistant or Associate Professor for researchers interested in experimental and molecular therapeutics of cancer. Research areas of interest may include anti-cancer drug resistance, cell cycle control, apoptosis pathways, signal transduction, anti-cancer drug discovery, and other areas applicable to translational research programs. Applicants must possess a Ph.D. or M.D. degree, and have a proven track record in obtaining peer-reviewed extramural funding. Successful candidates will have academic appointments in a basic science department of the Medical School, and some teaching of medical students and graduate students is expected. Generous start-up packages and state-of-the-art research laboratory space will be provided in the new 80,000 sq. ft. Indiana University Cancer Research Institute (opening Spring, 1997). This facility is the focus of a highly interactive group of basic scientists and clinicians involved in the I.U. Cancer Center. Applicants should submit a C.V. and a description of current and future research programs, and should arrange for three letters of recommendation to be forwarded to the address below.

Leonard C. Erickson, Ph.D., Associate Director, Basic Research, Indiana University Cancer Center, 535 Barnhill Drive, Indianapolis, IN 46202

Indiana University is an Affirmative Action/Equal Opportunity Employer. Women and Minorities are encouraged to apply.

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**EXPANDING MINDS**

"What if . . . ?"

Every cure known to man started with this simple question. Answering it is precisely how Chiron has pioneered one exciting biotechnology breakthrough after another.

Since 1981, our mission to end human suffering has placed us at the forefront of genetic engineering, diagnostic, therapeutic, vaccine and ophthalmic development. Nearly 7,000 employees worldwide are behind these and other remarkable accomplishments: blood-screening products to prevent the transmission of disease; cancer treatments, the first effective treatment for multiple sclerosis and products to help physicians work with patients with vision disorders.

Are you ready to step into a challenging and intense environment? To team up with great scientific, business and marketing minds to develop innovative methods of detection, treatment and prevention of major diseases as HIV, cancer, herpes and hepatitis? Then join us at Chiron, where creative, energized professionals thrive — and where our commitment is matched by an unwavering dedication to quality. Because lives depend on it.

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**Principal/Senior Scientist—Biochemical Pharmacology**

You will play a significant role in solving unique problems of High Throughput Screening technology and assist in the development of a novel screening effort using cellular and molecular targets. "Hands-on" robotics/automation experience, as well as familiarity with database approaches, data analysis and results interpretation will be required. To qualify, you must be a Ph.D Scientist or equivalent with at least 5 years’ experience in drug screening and management of an High Throughput Screening group or laboratory in an industrial setting. A background in biochemistry, pharmacology or molecular biology is also essential. Job Code AH

**Post-doctoral position**

The ideal candidate will have training in medicinal microbiology as well as molecular biology experience. Pharage display experience preferred but not required. Job Code IW

We offer a competitive compensation and benefits package. If you'd like to explore career opportunities with us, please send your resume, indicating Job Code: to: Chiron Corporation, Human Resources, 4560 Horton Street, Emeryville, CA 94608. We are an equal opportunity employer.

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**TENURE-TRACK OR TENURED POSITION FOR A DEVELOPMENTAL BIOLIST at the NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES NATIONAL INSTITUTES OF HEALTH**

A position is available for a Developmental Biologist to establish an independent basic research program and to form a research group in the Laboratory of Reproductive and Developmental Toxicology, Division of Intramural Research. Applications are invited from scientists with demonstrated ability for creative and productive research in cellular and molecular mechanisms of mammalian development. Of particular interest are investigators using rodent models to study cell interactions, imprinting and other basic biomedical problems relating to the impact of the environment on development. The successful candidate will interact with investigators studying diverse problems in reproductive biology, developmental toxicology, hormone mechanisms, signal transduction, cell cycle regulation, cell growth and differentiation, apoptosis, gene regulation, mutagenesis and DNA repair, and cancer biology.

The position is available to citizens or permanent residents of the United States. Minimum qualifications are a doctoral degree in the biomedical sciences, three years of postdoctoral experience, and publications in quality journals. Salary will be commensurate with the experience and qualifications of the candidate. Applications from women or members of minority groups are particularly welcome. Potential candidates should provide a curriculum vitae and bibliography, a 2-5 page statement of current research interests and goals, and arrange for three letters of recommendation to be sent before 3 January 1997 to:

Ms. Lisa Rogers
Human Resource Management Branch (HNV96-23)
National Institute of Environmental Health Sciences
National Institutes of Health
P. O. Box 12233, Research Triangle Park, NC 27709
(919) 541-7513
e-mail: rogers2@niehs.nih.gov

NIEHS/NIH is an Equal Opportunity Employer.
PLANT DEVELOPMENTAL BIOLOGY

The Botany Department at the University of Georgia has an opening at the ASSOCIATE PROFESSOR level for a plant developmental biologist interested in answering questions of fundamental importance to plant growth and differentiation. Areas of interest could include signal perception and transduction, plant growth substances, ligation, and organ and meristem development. We seek an individual who utilizes innovative molecular approaches to address questions in these areas. The Botany Department has strengths in several areas of plant biology and emphasizes interdisciplinary plant-relevant research on campus. Further information is available at http://www.botany.uga.edu/. Candidates should submit a curriculum vitae, a short (two-page) statement of future research and teaching interests, and reprints of up to five papers, and should arrange to have four letters of recommendation sent to Chairperson, Plant Developmental Biology Search Committee, Botany Department, Miller Plaza, University of Georgia, Athens, GA 30602. The application deadline is January 6, 1997. The University of Georgia is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION

The Department of Biology at Clark University invites applications for a tenure-track faculty appointment in Cell Biology at the ASSISTANT PROFESSOR level. The successful candidate is expected to establish a productive research program, teach a cell biology course and a graduate course in the area of research interest, and participate in Introductory Biology. Formal review begins January 6, 1997. Applications consisting of a curriculum vitae, two reprints, a statement of teaching and research interests, and the names of three references to: Chair, Cell Biology Search Committee, Department of Biology, Clark University, 950 Main Street, Worcester, MA 01610. Clark University is an Equal Opportunity/Affirmative Action Employer.

TeNure-Track Faculty Position

Vertebrate Development

University of Massachusetts, Amherst

The Biology Department, in cooperation with the Neuroscience and Behavior Program at the University of Massachusetts, Amherst, invites applications for a tenure-track position at the ASSISTANT PROFESSOR level. We are seeking an individual using cellular, molecular, or genetic approaches to address fundamental problems of development in a vertebrate model system. Preference will be given to individuals who complement existing strengths in developing fundamental processes in the brain, behaviors, sensory systems, motor control, and peripheral systems. We are particularly interested in candidates who have a Ph.D. and a commitment to teaching and research at the level of the undergraduate curriculum. The successful candidate will be expected to establish a productive research program, teach a course in vertebrate development, and develop a commitment to teaching at the undergraduate level. Applicants who have a Ph.D. and a commitment to teaching and research are especially encouraged to apply.

BIological Science/INDUSTRIAL MICROBIOLOGIST

ASSOCIATE PROFESSOR, tenure-track position in Biotechnology/Industrial Microbiology; September 1997. Salary: $37,140 to $46,812. Ph.D. required. Responsibilities include teaching Biotechnology/Industrial Microbiology, student advising, directing student's undergraduate and Master's research, and participating in the Biotechnology Program and Environmental Biotechnology Institute. Strong background in product discovery, genetics of industrially important microorganisms, or molecular biology in industrial processes desired. The Biological Sciences Department offers the B.S. degree in Biological Sciences and minors in Environmental Science and Biotechnology and M.S. degree in biological sciences. Send letter of interest and curriculum vitae to: Dr. V. L. Flaherty, Chair, Biological Sciences Department, California Polytechnic State University, San Luis Obispo, CA 93407. Refer to Recruitment Code 73082. Deadline is January 18, 1997.

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 teaching at the graduate and undergraduate levels. We are especially interested in applicants who use molecular genetic analysis to study fundamental biological processes in tractable eukaryotic systems. Areas of interest include 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, classical genetics, bioinformatics, imaging, and computing. Applicants must have a Ph.D. and relevant experience. Please send curriculum vitae and a description of the proposed research program and have three letters of recommendation sent to: Chair, Biological Sciences Search Committee, Carnegie Mellon University, Box 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.

FACULTY POSITION

ASSISTANT PROFESSOR

BIOLOGICAL SCIENCES

Univcrsity of Pennsylvania

The Department of Animal Biology, School of Veterinary Medicine at the University of Pennsylvania, has a tenure-track position at the ASSOCIATE PROFESSOR level. The position is for a cytologist with an interest in exploring the cellular and molecular basis of development in animal systems. The successful candidate will be expected to establish a productive research program, teach a course in animal cytology, and develop a commitment to teaching at the undergraduate curriculum. Applications consisting of a curriculum vitae, names and addresses of three references, and statement of research program sent to: Dr. Steven J. Flaherty, Chair, Animal Transgenesis Search Committee, Department of Animal Biology, School of Veterinary Medicine, University of Pennsylvania, 3800 Spruce Street, Philadelphia, PA 19104-6046. An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION

ASSISTANT PROFESSOR

ANIMAL BIOLOGY

UNIVERSITY OF PENNSYLVANIA

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 teaching at the graduate and undergraduate levels. We are especially interested in applicants who use molecular genetic analysis to study fundamental biological processes in tractable eukaryotic systems. Areas of interest include 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, classical genetics, bioinformatics, imaging, and computing. Applicants must have a Ph.D. and relevant experience. Please send curriculum vitae and a description of the proposed research program and have three letters of recommendation sent to: Chair, Biological Sciences Search Committee, Carnegie Mellon University, Box 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.

FACULTY POSITION

ASSISTANT PROFESSOR

PLANT BIOLOGY

The Department of Botany at Arizona State University invites applications for a TENURE-TRACK faculty position at the Assistant Professor level. Preference will be given to candidates who have strong research programs in molecular or genetic approaches to solve fundamental questions at the organismal level. This can relate to structural, functional, or developmental issues and should complement existing strengths in the department. The successful candidate will be expected to develop a vigorous extramurally funded research program and to contribute to teaching at the undergraduate and graduate levels. Applicants must have a Ph.D. or equivalent, productive postdoctoral research experience, and teaching experience. Information about the department can be found at http://svlrls.asu.edu/botany/ and http://www.asu.edu/colleges/aa/.

Applications are due January 15, 1997. Arizona State University is an Equal Opportunity/Affirmative Action/Title IX Employer.

BIOLoGIST

Tenure-track ASSISTANT PROFESSOR position (Ph.D. required) in a small liberal arts college in south-central Michigan. Position will be considered, especially plant ecology, plant-animal interactions, invertebrate biology, and aquatic biology. Teaching responsibility will usually be two courses (with labs) each semester, with an expected teaching load of 12 credits per year in major biology courses. Send curriculum vitae, transcripts, a statement of teaching and research interests, and the names and addresses of at least three references to: Biology Search Chair, Biology Department, Adrian College, Adrian, MI 49221. All materials should be received by January 21, 1997. Equal Opportunity Employer.
The University of Texas at Austin
Assistant Professor
Molecular/Cellular Biology

A tenure-track assistant professor is being sought to join a group of nutritional molecular biologists in the Division of Nutritional Sciences. Applicants should have a desire to define the function of nutrients in developmental processes, and/or their role in the etiology of nutritionally related diseases. The successful candidate will develop an independent research program in the molecular or cellular biological aspects of nutrition, and teach in the undergraduate and graduate program. A Ph.D. and postdoctoral experience is required, and preference will be given to applicants with demonstrated research productivity, grantsmanship, and teaching competency. Send curriculum vitae, transcripts, selected research publications, a statement of research interests, and names of references to:

Dr. Steven D. Clarke, Chairman
M.M. Love Chair of Nutritional, Molecular, and Cellular Sciences
GEA 115/A2700
The University of Texas
Austin, Texas 78712
e-mail: stevedclarke@mail.utexas.edu

Applications received by December 31 will receive full consideration.

The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.
MOLLEcular Life Scientist (Cell and Molecular BIOlogist)
San Diego State University

A tenure-track faculty position is available at the AssisTant/AssOciate professor level for a cell and molecular biology research and teaching inter-

ests related to biotechnology. The successful candidate is expected to establish an independent basic research program relevant to the biotechnology industry; to mentor students in research and instruction; to participate in, present, and publish in cell, and molecular biology; to teach in a newly integrated under-

graduate biotechnology, cell biology, molecular biology, and biological chemistry courses; and to interact with a diverse faculty and student body. The candidate is also expected to work with Biology, Chemistry, Engineering, and Business faculty to establish novel, interdisciplinary programs devoted to biotechnology-related training and research. Previous experience in the biotechnology and/or pharmaceutical industry is desirable.

A Ph.D. in a related field and postdoctoral experience are required. Applicants must submit a curriculum vitae, research/teaching statement, and selected reprints and arrange to have three letters of recommendation sent to: Molecular Life Scientist Search Committee, Depart-

ment of Biology, San Diego State University, San Diego, CA 92182-4618. New applications will begin January 6, 1997. Visit http://www.bio.sdsu.edu/ for details. San Diego State University is an Affirmative Action/Equal Opportunity Employer. Do not discriminate against persons on the basis of race, religion, national origin, sexual orient-

ation, gender or marital status or age or disability.

ASSISTANT PROFESSOR OF ENOLOGY
Assistant Microbiologist in the Experimental Station University of California, Davis

The Department of Viticulture and Enology invites applicants for a one-month, one-year (nine-month tenure-track) Assistant Professor position. A Ph.D. in microbiology or related discipline is required; postdoctoral experience is desirable. Will be expected to become a vigorous externally funded research and teaching faculty in the graduate program (M.S. and Ph.D.) students, and teach at the undergraduate and graduate level.

Experience should complement existing programs in micro-

biology with preference given to the field of lactic acid bacteria. Send letter of interest, curriculum vitae, a statement of research and teaching goals, graduate transcripts (if within 5 years of application), and addresses of three references to: Dr. Linda F. Bisson, Search Chair, Department of Viticulture and Enology, University of California, Davis, CA 95616-8707. The Department reserves the privilege of reviewing applications until filed. To ensure consideration, applications must be received by February 15, 1997. Applications by facsimile will not be accepted.

ASSISTANT PROFESSOR TENURE-TRACK
Georgetown University School of Medicine Department of Pharmacology

The Department of Pharmacology at Georgetown University invites applications for a tenure-track position at the level of ASSISTANT PROFESSOR. Candidates should have postdoctoral experience, preferably, but not necessarily, in research oriented toward molecular and cellular approaches to cardiovascular studies. Preference will be given to individuals with a strong commitment to excellence in research and teaching in pharmacology.

Candidates should send their current vitae, a summary of research interests with an indication of future research directions, and names of three references to: Dr. Barbara M. Bayer, Chair, Phar-

macology Search Committee, Georgetown University School of Medicine, 3900 Reservoir Road, NW, Washington, DC 20007.

Georgetown University is an Equal Opportunity/Affirmative Action Employer.

ZOOLOGY, PHYSIOLOGIST

Two TENURE-TRACK FACULTY positions to be filled August 1997 at State University, Utah, Ph.D., teaching experience, and demonstrated ex-

pertise in zoology or mammalian physiology required. First screen January 17, 1997. Contact: Human Re-

sources, Telephone: 801-222-8207 or visit home page www.usuc.edu or Email application request to bartlena@usuc.edu. No résumé accepted without applica-


EXECUTIVE DIRECTOR FOR THE NETWORK OFFICE

Long-Term Ecological Research Network

Applications are invited for the position of Executive Director of the Long-Term Ecological Research (LTER) Network Office. The LTER Network Office serves the organizational, commu-

nication, and networking needs of the LTER Network and the connection to the International Long-Term Network. Advertised to be the Executive Director at a salary of $75,000 per year, this position will be based at http://LTERnet.edu. The candidate must have a Ph.D. de-

gree in some area of environmental science, demonstrated experience in project and personnel management, and evi-

dence of excellence in written and oral communication. The position will be filled by October 1, 1997.

Applications must be received by January 15, 1997. Contact: Executive Director, LTER Network Office, University of Colorado, Box 294, Boulder, CO 80309-0294. Visit http://LTERnet.edu/

for more information. LTERnet is an Equal Opportunity/Affirmative Action Institution.

FISHERIES BIOLOGIST

Full-time, tenure-track, ASSISTANT PROFESSOR, Department of Forestry and Natural Resources, Purdue University. Research responsibilities (60%): conduct re-

search in freshwater fisheries management at the popula-

tion level. Requirements: Ph.D. in fish biology, aquatic food chain dynamics, competitive interactions, effects of land-use change on aquatic communities, and habitat evaluation and restoration. Teaching responsibilities (40%), potential opportunities (at least 18 credits per year) in fisheries biology and the field experience. A Ph.D. degree in fisheries biology, fisheries management, aquatic ecology, or related field and ability to work effec-

tively with resource management agencies required. Appli-

ed research and international experience are desirable. Review of applications begins January 15, 1997. Send resume; transcripts; copies of leading publications; and statement of professional goals, teaching philosophy, and research interest, and arrange to have at least three letters of reference sent. Address correspondence and inquiries to: Dr. Ann Spacie, Chair, Fisheries Biologist Search Committee, Department of Forestry and Natural Resources, Purdue University, 1159 Forestry Building, West Lafayette, IN 47907-1159. Purdue University is an Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSISTANT OR ASSOCIATE PROFESSOR

Departments of Medicine (Oncology) and Genetics
Stanford University School of Medicine

We are seeking candidates who can develop an inde-

pendent research program in the field of cancer genetics. We are especially interested in investigators eager to ex-

ploit the emerging human genome sequence information in innovative ways. Participation in clinical care activities and teaching will be expected. Candidates should have a strong background and significant laboratory research ac-

complishments in molecular and/or cellular genetics ideally both. Please send curriculum vitae, a statement of career plans, and names of three references to: Ronald Levy, M.D., Director, Division of Oncology, Stanford University School of Medicine, SUMC M211, Stan-

ford, CA 94305-5206. Stanford University is committed to increasing representation of women and members of minority groups in the University and encourages applications from candidates.

Microbiologist Ph.D. Begins fall of 1997. TENURE-TRACK position to teach microbiology, human anatomy and physiology, and other courses in biology department. Participation in modest undergraduate research encour-

aged. The department participates in a number of arts and sciences program affiliated with the United Methodist Church. Enroll-

ment: 1400. Biology majors: 100. Send curriculum vitae, letter of application, reference list, and transcripts to: Dr. Gary Wilson, Dean of Arts and Sciences, McMurry University, Abilene, TX 79607-0057. Deadline: De-

cember 31, 1996.

CHAIR

Department of Microbiology and Immunology

The University of North Dakota School of Medicine and Health Sciences invites applications and nominations for the position of CHAIR of the Department of Micro-

biology and Immunology. The candidate must be a medical scientist with a strong research record in immunolo-

gy, pathogenic microbiology, or virology who will complement, expand, and strengthen existing areas of research emphasis. The department is expected to partic-

ipate in medical and allied health education and therefore must be committed to excellence in teach-

ing. The applicant should also possess interpersonal and leadership skills, be committed to directing students, and performing administrative duties.

Specific information concerning faculty research inter-

ests, course offerings, and facilities is available at http://

www.und.edu.

Review of applications will begin January 15, 1997, but the search will remain open until the position is filled. Applicants should submit a detailed curriculum vitae; a statement that addresses administrative philosophy, re-

search goals, and teaching interests; and the names and addresses of three references to: Dr. David W. Hein, Chair of the Department of Pharmacology and Toxicology, The University of North Dakota School of Medicine, Department of Pharmacology and Toxicology, Box 9037, Grand Forks, ND 58202-9037. The University of North Dakota is an Equal Opportunity/Affirmative Action Institution.

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SCIENCE • VOL. 274 • 22 NOVEMBER 1996
Texas A&M University's Institute of Biosciences and Technology (IBT) offers prospective graduate students and postdoctoral fellows in the biosciences an opportunity to work in laboratories with internationally recognized scientists in state-of-the-art facilities.

Doctoral and postdoctoral studies are conducted at IBT, located in the Texas Medical Center in Houston, in conjunction with academic departments at Texas A&M University in College Station or with the University of Texas-Houston's Graduate School of Biomedical Sciences in Houston. Special programs are also available in which graduate students can do thesis research at IBT while enrolled in programs of other academic institutions.

After admission to Texas A&M, graduate students can rotate through the different research labs at IBT either the summer before or after the first year of their graduate training in College Station. After admission to UT-Houston's Graduate School, students can rotate through the IBT labs during their first year of graduate study.

IBT includes the following:
- **Center for Animal Biotechnology**: Director, Fuller W. Bazer, Ph.D., pregnancy and uterine biology; Stanley R. Glasser, Ph.D., embryo/uterine inter-relationships
- **Center for Cancer Biology and Nutrition**: Director, Wallace L. McKeegan, Ph.D., signal transduction; James F. Martin, M.D., Ph.D., craniofacial genetics; Mikio Kan, Ph.D., growth factors and extracellular matrix
- **Center for Extracellular Matrix Biology**: Director, Magnus Hook, Ph.D., molecular interactions in the ECM; Ramiro Ramirez-Solis, Ph.D., mouse genetics; Joe Patti, Ph.D., microbial pathogenesis; David J. McQuillan, Ph.D., extracellular matrix glycoproteins
- **W.M. Keck Center for Genome Informatics**: Director, Leland Ellis, Ph.D., informatics and telecommunications
- **Center for Genome Research**: Director, Robert D. Wells, Ph.D., DNA structure and human diseases; Richard R. Sinden, Ph.D., DNA structures and mutagenesis; Paul Gershon, Ph.D., post-transcriptional modification of mRNA; Vladimir N. Potaman, Ph.D., triplex DNA
- **Center for Macromolecular Design**: Frederick S. Gimble, Ph.D., protein-nucleic acid interactions

IBT's location in the Texas Medical Center gives trainees easy access to other nearby institutions, including Baylor College of Medicine, the University of Texas-Houston Health Science Center, the University of Texas M.D. Anderson Cancer Center, Rice University, and the University of Houston. These institutions offer additional seminars and collaborative research opportunities.

For more information, potential applicants are encouraged to write to the address listed below or to contact IBT at the telephone or fax number given below:

**Training Programs, Institute of Biosciences and Technology, Texas A&M University, 2121 West Holcombe Boulevard, Houston, Texas 77030-3303; Telephone: 713/677-7552; Facsimile: 713/677-7576; Internet: mhook@ibt.tamu.edu**

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**CARNEGIE MUSEUM OF NATURAL HISTORY**

Pittsburgh, Pennsylvania

**DIRECTOR**

Reporting to the President and the CEO of Carnegie Institute and working closely with the Board of Carnegie Museum of Natural History (CMNH), the Director will oversee the staff of CMNH. He/She will provide leadership and direction in developing strategy, implementing programs and ensuring that the financial operations of CMNH are sound. He/She will be the chief spokesperson for CMNH and will communicate and articulate its mission, vision, and goals to its regional, national, and international audiences. It will be particularly important for the Director to increase revenue by obtaining grants and overseeing the development of programs to increase visitor attendance, product sales and fundraising. The Director must ensure that the Museum maintains its primary position as a scientific research institution.

Individuals must have an advanced degree that will complement the mission of the Museum and ten years experience in a senior level management position with a proven track record as a leader and manager capable of increasing revenue while remaining focused on the scientific mission of the institution.

Please send nominations and applications by Friday, December 6, 1996:

**Carnegie Museum of Natural History**

c/o Heidrick & Struggles, Inc.

1301 K Street, N.W., Suite 500 East
Washington, D.C. 20005

Fax: 202/289-4451

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**RESEARCH SCIENTIST**

Amgen, the world's largest biotechnology company, is currently seeking a Research Scientist for its Boulder, Colorado facility.

Working in a multi-disciplinary research team you will develop and implement state-of-the-art high throughput and secondary screens to identify and characterize small molecule effectors of molecular and cellular targets. You will analyze HTS and follow-up data and perform preliminary SAR to advance active compounds. Requirements for this position include a Ph.D. in Biochemistry, Cell Biology, or a related field and typically 3-5 years of industrial HTS experience. The successful candidate will have knowledge of cell biology and of molecular mechanisms of drug action. The ability to work productively in a goal-oriented team is essential.

We recognize that diverse perspectives are a key factor in the process of discovery.

At Amgen, you'll find our approach as rewarding as it is effective. We offer a highly competitive compensation and benefits package. Please mail your resume to: Amgen, Boulder, Human Resources, Dept. BPSC-9852, P.O. Box 19409, Boulder, CO 80308-2409. Please consult our on-line Job Bulletin Board at http://www.bio.com for information on other career opportunities available at Amgen. Principals only, please.

EEO/AA Employer M/F/D/V
ECOLOGIST

The Department of Biological Sciences, Union College, is seeking to fill one, tenure-track position at the ASSISTANT PROFESSOR level with an ecologist(s) who has a strong commitment to both teaching and research. One of the positions requires that the appointee be trained and enthusiastic to involve students in field experience. Development of an active research program in which undergraduates can participate is expected. Candidates working in one of the following areas are particularly encouraged to apply: 1) population or community ecology of terrestrial, freshwater, or marine systems; 2) behavioral ecology; or 3) chemical ecology. Union is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. Email: colin.hernans@sonoma.edu. Completed applications must be postmarked by 6 January 1997. An Affirmative Action/Equal Opportunity Employer.

TWO BIOL OGY POSITIONS

Geneticist and Cell Physiologist

Texas A&M University–Kingsville (TAMUK) is open
ning a search for two tenure-track positions at the ASSISTANT PROFESSOR level. The two positions are 1) geneticist with a focus on those involved in DNA sequence work and 2) cell biologist. Successful applicants for either position will have postdoctoral experience in biomedical research, the ability to write competitive research proposals, and a strong desire to communicate in teaching and a publication record commensurate with experience. Both positions will have a half-time teaching and a half-time research component devoted to biomedical research. Laboratory space and start-up funds are available. TAMUK is a Hispanic-serving institution located in South Texas. Candidates for either position must submit: 1) a letter of application that describes teaching and research interests, 2) a current CV, 3) a curriculum vitae, and 4) three references. Incomplete applications will not be considered. The deadline to submit an application is January 15, 1997. Inquiries should be addressed to: Biology Department, Box 158, TAMUK, Kingsville, TX 78363. Inquiries can be made by Telephone: 512-593-3803. Texas A&M University–Kingsville is an Affirmative Action/Equal Opportunity Employer.

GENERAL AND MEDICAL MICROBIOLOGY / VIROLOGY AND IMMUNOLOGY

The University of Texas–Pan American

The Department of Biology invites applications for an entry-level, tenure-track ASSISTANT PROFESSOR position beginning September 1, 1997. The successful applicant must have a Ph.D. and be able to assist with existing general biology courses and general and medical microbiology courses. He or she will be expected to develop courses in virology and immunology and a research program in microbiology. Strong commitments to teaching and research, and a willingness to engage undergraduate and graduate students are expected. Position requires research experience. Inquiries should be directed to the Search Committee Chair, Department of Biology, The University of Texas–Pan American, 1201 West University Drive, Edinburg, TX 78541-2999. Telephone: 210-381-3543; FAX: 210-381-3657. Email: faroqui@panam.edu. Application deadline: January 15, 1997. The University of Texas–Pan American is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. (96/97-20)

MICROBIOLOGIST

The Department of Biology, Sonoma State University, invites applications from broadly trained microbiologists with expertise in molecular techniques for a TENURE-TRACK assistant or associate professor position. Sonoma State University is a comprehensive institution with a full announcement on our web page (www.sonoma.edu/biology) for application requirements or request it from: Dr. Colin O. Hermans, Chair, FAX: 707-664-3012; Email: colin.hermans@sonoma.edu. Completed applications must be postmarked by 6 January 1997. An Affirmative Action/Equal Opportunity Employer.

TWO BIOLOGY POSITIONS

Molecular/Cell Biology

Tenure-track Assistant Professor, Ph.D. required. Teach molecular and cell biology courses as well as introductory courses for majors and non-majors. Commitment to teaching in the liberal arts tradition of the college and potential for developing a collaborative research program involving undergraduates is vital.

DIRECTOR, Pre-professional and Allied Health Programs: Tenure-track, Assistant Professor, Ph.D. required. Teach in pre-professional programs as well as in teaching departmental and university-wide courses. Applications from any biology specialization are invited.

Both positions begin August 1997. Interested individuals should submit curriculum vitae, three letters of reference, undergraduate and graduate transcripts, and statement of teaching and research interests by January 17, 1997 to: Dr. Terry Matthews, Chair, Department of Biology, Millikin University, Decatur, IL 62522. Millikin University is an Equal Opportunity Employer. Applications from women and members of minorities are encouraged.

ASSISTANT/ASSOCIATE PROFESSOR BIOPHYSICS

The Department of Biochemistry and Biophysics invites applications for a full-time, TENURE-TRACK (nine-month) faculty appointment. We are seeking outstanding candidates for faculty responsibilities in molecular biophysics, particularly using x-ray diffraction or spectroscopic methods to study macro-molecular structure and function, and who will participate in teaching and research in biochemistry and biophysics. The successful candidate for this position is expected to develop an active externally supported research program that complements, but does not duplicate, the present research in the department. To apply, candidates should send a letter of interest, a curriculum vitae, concise statement of research plans, and copies of two representative publications, and have three reference letters sent to: P. Shing Ho, Department of Biochemistry and Biophysics, TAMU, College Station, TX 77843-1242. TAMU is an Equal Opportunity/Affirmative Action Employer, and has a policy of being responsive to dual-career couples.

DIRECTOR

Environmenal Protection Unit

Direct research and public policy efforts through environmental protection, land acquisition, conservation stewardship, and research activities. Requires Ph.D. in ecology or related field; experience in aquatic ecology/hydrology environmental policy, hands-on experience in the protection of ecosystems and natural resources; demonstrated leadership, supervisory, and team-building skills; excellent written and oral communication skills; demonstrated experience in writing and administering grants and contracts; and experience in developing and managing budgets. To apply, send application letter highlighting relevant experience, curriculum vitae, three references, and a letter of interest, to the Human Resources Manager, The Conservancy, 1450 Merrimac Drive, Naples, FL 34102. Salary: commensurate with qualifications and experience. Equal Opportunity and Drug-Free Employer.

ASSISTANT PROFESSOR IN BIOLOGY

TENURE-TRACK full-time position beginning September 1997. Ph.D. required. Teach introductory molecular biology and co-teach first-year cellular and molecular biology. Opportunity to teach additional upper-division or interdisciplinary course. Develop research program for undergraduate participation. Applications from a Ph.D. for full consideration, should be received by December 9, 1996. Send letter of application, professional curriculum vitae, statement of teaching philosophy and research interests, and three letters of recommendation to: Dr. Kathy Valley, Department of Biology, Texas A&M University, College Station, TX 77843. Interviews will be held early January 1997. An Equal Opportunity/Affirmative Action Employer.
DIRECTOR of the
PRINCETON
MATERIALS INSTITUTE

Princeton University is seeking applicants for the position of Director of the Princeton Materials Institute. The position is at the senior, tenured faculty level. The Institute was established in 1990 to promote multi-disciplinary collaborations in materials research and education. Princeton Materials Institute now has more than 55 associated faculty from various science and engineering departments. It has several multi-million dollar awards from the NSF and DOD. In FY 1995/96, research expenditures totaled approximately $6 million dollars.

Please send a resume and statement of research interests by December 31, 1996 to Associate Provost Allen J. Sinisgalli, Princeton University, P.O. Box 36, Princeton, New Jersey 08544-0036; Fax # 609-258-1159, e-mail: allens@princeton.edu. Also include a list of three names of individuals (with telephone numbers and addresses) who would be willing to provide an assessment of your qualifications for the position.

Princeton University

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

TENURE-TRACK POSITION

The Liver Diseases Section of the National Institute of Diabetes and Digestive and Kidney Diseases invites applications for a tenured-track position in the intramural program of NIH. The Section is located in the Warren Magnuson Clinical Center (Building 10) with newly renovated laboratory space. The mission of the Section is to develop integrated, multidisciplinary approaches to the study of liver diseases, and to bridge clinical medicine and basic science with translation of fundamental knowledge to prevention, diagnosis and treatment of liver diseases. In addition to providing clinical services on liver diseases in the Clinical Center, the Section also carries on active basic and clinical research programs. Ongoing basic research activities focus on molecular pathogenesis of hepatitis B and C virus infections as well as on animal models of liver diseases. Active clinical investigations into the evaluation and treatment of various forms of liver diseases are also an integral part of the research activities of the Section. Applicants should have a M.D. or Ph.D. degree, a special interest in liver diseases, a strong record of scientific accomplishments, a commitment to the aims and overall direction of the Section, and the ability to establish an independent research program. Candidates with strong background in immunology, molecular and cell biology, or gene therapy are especially encouraged to apply. Salary, resources and personnel support will be commensurate with education and experience. Applicants should send a curriculum vitae and three letters of recommendation to:

DIVISION OF INTRAMURAL RESEARCH, NIDDK
BUILDING 10, ROOM 9B16
10 CENTER DRIVE MSC 1800
BETHESDA, MD 20892-1800

Applications must be received by December 16, 1996.
NIH is an Equal Opportunity Employer

Campbell McLaurin Chair for Hearing Deficiencies

The University of Calgary Faculty of Medicine and the Campbell McLaurin Foundation for Hearing Deficiencies invite applications and nominations for a full-time academic position at the Professor level as the Campbell McLaurin Chair for Hearing Deficiencies. The successful candidate will be a senior established investigator in hearing deficiencies with an international reputation in clinical or basic research. If this research is patient-based and involves the provision of patient care, the selected individual must be eligible for licensure in the Province of Alberta. The incumbent will provide leadership in the further development of a world-class research program in hearing deficiencies in a collaborative research environment, as well as help attract outstanding students, research associates and faculty.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary is committed to Employment Equity.

Please submit a curriculum vitae, a statement of research interests and goals, and the names of three referees by January 15, 1997 to:

Dr. E.R. Smith, Chair
Selection Committee
Faculty of Medicine
The University of Calgary, 3330 Hospital Drive N.W.
Calgary, Alberta, Canada T2N 4N1

The University of Calgary

www.ucalgary.ca

Penn State College of Medicine

Graduate Studies and Postdoctoral Training

Microbiology and Immunology

Areas of research interest include: Viral gene regulation and virion assembly; Antiviral design; Viral protein transport and processing; Antigen recognition; Viral pathogenesis, latency, oncogenesis, and vaccines; Transmembrane and intracellular signal transduction; Eukaryotic cellular differentiation and growth control; Molecular and cellular immunology; Human genome mapping

College of Medicine Programs

Anatomy
Biochemistry and Molecular Biology
Cell and Molecular Biology
Microbiology and Immunology

Neuroscience
Pharmacology
MD/PhD Program
PhD/MBA Program

Inter-College Programs

Bioengineering
Genetics
Nutrition

Physiology
Integrative Biosciences

For more detailed information and to apply visit our WWW site at http://www.hmc.psu.edu or contact

Assistant Dean for Graduate Education, Penn State College of Medicine, Hershey, PA 17033-0850, Telephone: (717) 531-8892
Fax: (717) 531-4582; E-mail: grad-hmc@psu.edu

Penn State is an affirmative action, equal opportunity university.
METABOLISM OF XENOBIOTICS
Battelle, Pacific Northwest Laboratory (PNLL)

The Molecular Biosciences Department seeks to hire a SENIOR-LEVEL investigator with interests in an established program in the areas of molecular biology of xenobiotic metabolism. The incumbent would be a key collaborator in a program designed to pursue low dose effects of chemicals and other xenobiotics on health. Opportunities exist for scientists with expertise in developing pharmaceutically-based models for estimating effective doses of a chemical or its metabolite in target tissue of various species and for collaboration in designing structure-function questions for proteins of interest. Of specific interest within the laboratory are phase 2 enzymes involved in activation/deactivation of chemicals, especially those involved in glutathione conjugation and detoxification. Experience should include understanding of and an ability to compare various P450 isoforms and their catalytic properties between species is also important.

Send your curriculum vitae; two to three examples of recent publications; a summary of current research interests and future directions; and a list of five potential references with their addresses, telephone, and e-mail numbers. Applications are invited from qualified candidates for the position known as Dr. Richard J. Bull, Molecular Biosciences Department, P.O. Box 999, M/S KI-24, Richland, WA 99352. Or email: emply@pnl.gov in ASCII, Word or PDF. Initial review of applications will begin on December 15, 1996 and will continue until the positions are filled. PNLL is an Equal Opportunity/Affirmative Action Employer and supports diversity in the workplace. Women, minorities, Vietnam-era and disabled veterans, and disabled persons are strongly encouraged to apply.

KENNYON COLLEGE
Molecular Microbiologist and Neurobiologist

Kenny College seeks a Molecular Microbiologist who holds a Ph.D. for a visiting position and a Neurobiologist (with Ph.D.) for a one-year visiting position beginning in August 1997.

The successful MOLECULAR MICROBIOLOGIST candidate will teach an upper level course in molecular biology in year one, an upper-level microbiology course in year two, and introductory biology courses in both years, and may supervise undergraduate research projects. The position will require curriculum vitae, statement of teaching and research interests, graduate and undergraduate transcripts, and three letters of reference to: Molecular Microbiology Search Committee, Department of Biology, Kenyon College, Gambier, OH 43022. Review of applications will begin January 15, 1997, and will continue until the position is filled.

The successful NEUROBIOLOGIST candidate will teach an upper level course in neurobiological courses, and have involvement in Kenyon's neuroscience program. Strong preference will be given to candidates who can also teach developmental biology. Send medical curriculum vitae, statement of teaching and research interests, graduate and undergraduate transcripts, and three letters of reference to: Neurobiology Search Committee, Department of Biology, Kenyon College, Gambier, OH 43022. Review of applications will begin January 15, 1997, and will continue until the position is filled.

An Equal Opportunity Employer. Kenyon encourages the applications of women and minority candidates.

STAFF ASSOCIATE
COLUMBIA UNIVERSITY

The Gertrude H. Sergievsky Center currently has a full-time position available for a Staff Associate to create and maintain database management systems for epidemiological research on Alzheimer’s disease. Responsibilities include database programming, supervision of data entry, data editing, and data analysis. A M.S. or B.S. in statistics and computer science or computer information systems is preferred. Good written and verbal skills essential. Background in epidemiology, psychology, and statistics, and/or health sciences research preferred. Salary commensurate with experience.

Qualified applicants send resume with salary history to: Howard Andrews, Ph.D., Columbia University, 722 West 166th Street, Box 47, New York, NY 10032. (Please include Affirmative Action toward Equal Opportunity.)

MICROBIOLOGY POSITION

IntraBiotics Pharmaceuticals, Inc. is a young biopharmaceutical company currently developing novel anti-crobiol peptides for treatment of unmet medical needs. The Microbiology group has an opening for a SCIENTIST position who will be responsible for developing programs that continue to develop and evaluate novel therapeutic agents for treatment of infectious diseases. Background in microbial pathogenicity, antimicrobial agents, and animal models strongly desired. The company offers competitive salary, benefits, and significant equity participation. Please send resume to: Human Resources–Micro, IntraBiotics Pharmaceuticals, Inc., 816 Kifer Rd., Mountain View, CA 94042.

PLANT SYSTEMATIST
IDAHO STATE UNIVERSITY

The Department of Biological Sciences anticipates a 10-month tenure-track position at the ASSISTANT PROFESSOR level (contingent upon funding) for August 1997. Candidates must hold a doctorate (postdoctoral experience preferred) and have the ability to supervise students from /ndergraduate to doctoral levels. The successful candidate will be expected to develop a research program that complements existing research strengths in plant biology. Teaching responsibilities include participation in introductory courses, undergraduate genetics, and advanced courses in the candidate’s area of specialization. Plant Physiologist: Will be responsible for a program of research that complements existing research strengths in botany, ecology, or molecular biology. Teaching responsibilities include participation in introductory courses, whole plant physiology, cell biology, and plant systems. All candidates are expected to be well trained in their specialization. Both positions will remain open until filled. Please send a letter of application, curriculum vitae, and statements of teaching and research goals, and have three letters of recommendation sent to: Search Committee Chair, Department of Biological Sciences, Box 8007, Idaho State University, Pocatello, ID 83209-8007. Information about the department, its programs and facilities can be obtained at http://www.isu.edu/departments/bios. Idaho State 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 focused on prokaryotic or eukaryotic gene regulation or cellular or molecular aspects of bacterial, viral, or parasitic pathogenesis; interactions of pathogens with the immune system; or oncogenesis and tumor immunity. 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, LSUHSC, 1501 Kings Highway, Shreveport, LA 71130. An Affirmative Action Employer.

MOLECULAR BIOL ORIST (INSECTS)

USDA, Agricultural Research Service (ARS), announces a position for a Research Entomologist (Insect) GS-14/15, for the Red River Valley Agricultural Research Center at Fargo, North Dakota. The successful applicant will lead a research unit in the development of biological and biochemical insecticides and other insecticidal agents. The Incumbent will utilize molecular biology techniques for genome characterization, DNA sequencing, hybrid gene construction, and the development of gene transfer technology. Application must include a description of research experience at least one year of research experience at the postdoctoral level equivalent to the next lower grade salary ($61,348 to $93,811) is commensurate with qualifications. For vacancy announcement ARS-0566-96-OR, contact Dr. John Zimmerman, Telephone: 701-239-1203 and for information on research position, contact: Dr. John Zimmerman, Telephone: 701-239-1203 and for information on research position, contact: Dr. John Zimmerman, Telephone: 701-239-1203. Application must be postmarked on or before January 7, 1997. ARS is an Affirmative Action Employer. Women and minorities are encouraged to apply.

UNIVERSITY OF IDAHO

Idaho State University, Department of Biological Sciences, anticipates two TENURE-TRACK positions (contingent upon funding) for August 1997. Successful candidates must hold a doctorate (postdoctoral experience preferred), and will train students from undergraduate to doctoral levels. Molecular Geneticist: Will be expected to develop a research program with emphasis in gene regulation that complements existing research strengths in systematics and molecular biology. Teaching responsibilities include participation in introductory courses, undergraduate genetics, cell biology, and an advanced course in the candidate’s area of specialization. Plant Physiologist: Will be responsible for a program of research that complements existing research strengths in botany, ecology, or molecular biology. Teaching responsibilities include participation in introductory courses, whole plant physiology, cell biology, and plant systems. All candidates are expected to be well trained in their specialization. Both positions will remain open until filled. Please send a letter of application, curriculum vitae, and statements of teaching and research goals, and have three letters of recommendation sent by December 30, 1996 to: Search Committee Chair, Department of Biological Sciences, Box 8007, Idaho State University, Pocatello, ID 83209-8007. Information about the department, its programs, and facilities are available at: (503) 226-8738. Molecular Research Core Facility, Plant Sciences Research Building can be found at: http://www.isu.edu/departments/bios. Idaho State University is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR, GENE THERAPY

Tulane University Medical Center in New Orleans, Louisiana, invites nominations and applications for a position as Director of the Genetics Center. Qualified candidates must be physicians with a proven record of extramural funding. They should have administrative and leadership experience, including supporting a strong extramural research program. Strong emphasis will be placed on the candidate’s ability to marshal the resources of the Medical Center, which includes a School of Medicine, a School of Public Health and Tropical Medicine, an Institute for Cellular and Molecular Biology, and the Tulane University Graduate School. The successful candidate will develop and organize an endowed chair. Applicants should send a current curriculum vitae and the names of at least three references to: Dr. Peter J. Gerome, Chairman, G1 Research Committee, Office of the Chancellor, Sl. 76, Tulane University Medical Center, 1430 Tulane Avenue, New Orleans, LA 70112. Tulane University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minority groups.

ENVIRONMENTAL SCIENTIST

Austin College seeks an environmental chemist or environmental biologist for a position as ASSISTANT PROFESSOR position beginning August 1997. Ph.D. required. Successful applicant will have a strong background in both chemistry and biology, broad interests in interdisciplinary environmental issues, and a commitment to undergraduate education. Teaching will be primarily within the environmental studies curriculum with some responsibilities in college-wide programs. Austin College is a selective liberal arts institution. Send letter of application, résumé, graduate transcripts, three letters of reference, and one-page descriptions of teaching philosophy and research interests to: David Jordan, Vice President for Academic Affairs, Office of the President, 6600 Pine Avenue, Sherman, TX 75090-4440. Review of applications begins January 15, 1997. An Affirmative Action/Equal Opportunity Employer.

UNIVERSITY OF COLORADO
AT COLORADO SPRINGS


The University of Colorado is an Affirmative Action/Equal Opportunity Employer.
RESEARCH PROJECT DIRECTORS
Institute for Human Gene Therapy
UNIVERSITY OF PENNSYLVANIA

Faculty positions in the research track to participate in the development of research programs in defined areas relevant to gene therapy. Participate in basic research in Dr. J. Wilson's laboratory and have primary responsibility for coordinating the translation of basic discovery through clinical trials, including preclinical studies, vector manufacturing, pharmacology/toxicology, phase I clinical trials, and regulatory affairs. Individual Research Project Directors needed:

- **Lung-directed gene therapy.** Coordinate the efforts in gene therapy for cystic fibrosis. A knowledge of lung biology and physiology is required; research experience in cystic fibrosis is preferred.
- **Muscle-directed gene therapy.** Efforts currently focus on adenovirus and adeno-associated virus as vehicles for gene therapy to muscle. Strategies for clinical applications are being developed. Experience with animal models and background in muscle biology required.
- **Liver-directed gene therapy.** *In vivo* and *ex vivo* approaches are being developed for treatment of liver metabolic diseases.
- **Immunology.** Many projects are designed to exploit or prevent immune responses of the host to the vector or vector engineered cells. The specific nature of these responses is studied in both preclinical and clinical models.

D.V.M., M.D., and/or Ph.D. with at least one postdoctoral fellowship. Experience in molecular biology and animal models is required; background in toxicology is desirable. Appointment at the rank of Research Associate, which is a non-tenure-track faculty position.

Send CV and 3 references to: James M. Wilson, M.D., Ph.D., Director, Institute for Human Gene Therapy, 204 Wistar Institute, 3601 Spruce Street, Philadelphia, PA 19104-4268. AA/EOE. We encourage minority and women candidates.

DAKO is an international, biomedical products company that manufactures and markets immunological reagents and diagnostic kits for use in clinical and research laboratories.

Biochemical Production Manager

This position is responsible for reagent formulations used in immunohistochemistry and in situ hybridization kit systems. Formulations include bulk dilution of immunochemicals and enzyme conjugates and compounding of chemical substrate solutions. Responsible for establishing hybridoma cell lines, small scale monoclonal antibody production and downstream processing of tissue culture supernatants to final products. Related quality control by immunohistochemical and immunochemical methods. Development, implementation and maintenance of manufacturing and testing methods for new and existing products; involved in new product scale-up and process optimization. Supervisory responsibility of Biochemical Production and Cell Production/Immunoprocessing groups.

Good communication skills across functional areas; ability to operate within an active ECO and new product introduction environment. A background in immunocytochemistry and antibody production, or a related area, with 5-8 years manufacturing experience in a GMP or ISO 9000 regulated industry. B.S. degree required, M.S. degree preferred. Knowledge of microscopic anatomy a plus.

Human Resources Department
DAKO CORPORATION
6392 Via Real
Carpinteria, CA 93013
Fax: 805-684-5935

### MEETINGS

**Fundamental Issues in Vaccine Immunity**
A Meeting Sponsored by the Edward Jenner Institute for Vaccine Research to be held at Keble College, Oxford, UK from the 3rd - 6th April 1997.

The meeting will address problems of antigen presentation, tissue specific immunity, carbohydrate antigens, immaturity of the neonatal immune system, the nature of protective immune responses and microbial evasion strategies, as well as considering new methods for immunisation and the potential for elimination of diseases by vaccination. Speakers will include H. Bodmer, P. Borrow, P. Doherty, G. Dougan, S. Inglis, M. Liu, I. MacLennan, P. Matzinger, A. Lanzavecchia and D. Tough.

For further details please contact: Stuart Norridge/Suzanne Hazelhurst, Harvey Thomas Travel, 10 Parlaunt Road, Slough, SL3 8BB, United Kingdom.

THE EDWARD JENNER INSTITUTE FOR VACCINE RESEARCH
An Equal Opportunity Employer
Promoting Health through Vaccine Research
POSTDOCTORAL POSITION

Available immediately to conduct research on the active sites of dehydrogenases using site-directed mutagenesis and affinity labeling. Recent Ph.D. in biochemistry (at / or molecular biology required. Send curriculum vitae and names of three references to: Dr. M. G. Monahan, Department of Chemistry and Biochemistry, University of Delaware, Newark, DE 19716. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Available immediately to study the mechanism of activation and regulation of protein kinase C and related proteins at the cell and subcellular level. Send curriculum vitae and names of three references to: C. D. Stubbins, Ph.D., Center for Neuroscience, Thomas Jefferson University, 1020 Locust Street, Philadelphia, PA 19107. Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available immediately to define the role of chimeric transcription factors in human leukemia. Send curriculum vitae and names of three references to: Dr. F. R. Diaz-Mitoma or Dr. Ashok Kumar, Division of Virology, Department of Pediatrics, Children's Hospital of Eastern Ontario, 401 Smyth Road, Ottawa, Ontario, K1H 8L2. Fax: 613-787-2736; FAX: 613-787-6308; 613-787-2736; 613-787-4819; Email: akumar@lab.nlm.ottawa.ca, or diaz@cheek.on.ca.

POSTDOCTORAL POSITION

Children's Hospital Los Angeles—RESEARCH SCHOLAR position available immediately to study molecular biologic mechanisms of tumor suppressor genes and oncogene. Competitive salary depending on experience. Please send curriculum vitae with names and telephone numbers of three references to: Dr. Stephen D. Nimer, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. An Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available immediately to study molecular mechanisms of tumorogenesis, involving tumor suppressor genes and oncogene. Competitive salary depending on experience. Please send curriculum vitae with names and telephone numbers of three references to: Dr. Stephen D. Nimer, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. An Equal Opportunity Employer.

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**DEPUTY DIRECTOR**
**DIVISION OF ACQUIRED IMMUNODEFICIENCY SYNDROME**

The National Institute of Allergy and Infectious Diseases, National Institutes of Health (NIH), is recruiting for the Senior Executive Service position of Deputy Director, Division of Acquired Immunodeficiency Syndrome (DAIDS). Annual salary range between $100,526 - $122,688. (M.D.s may be eligible for up to $20,000 Physician's Comparability Allowance.) This individual, in concert with the Director, DAIDS, provides scientific and administrative management to a staff of approximately 126 employees in three major scientific programs (basic sciences, therapeutics, and vaccine and prevention) and manages an annual budget of over $400 million. Responsibilities include planning, conducting, coordinating, and evaluating a national and international research effort focused on HIV/AIDS. Applicants must hold either an M.D. or Ph.D. degree with research management experience in the biological, clinical and/or epidemiological aspects of infectious diseases. U.S. citizenship is required. Persons interested in this position may contact Dr. John Killen, Director, DAIDS at (301) 496-0545. For more information on the application process and position description, please contact Ms. Lynn Hellinger (see below). Applicants should submit either an Application for Federal Employment (SF-171), an Optional Application for Federal Employment (OF-612), a Curriculum Vitae, or resume by December 31, 1996 to: Ms. Lynn Hellinger, Director, Office of Human Resources Management, NIAID, Bldg 31/Room 7A20, 31 Center Drive MSC 2520, Bethesda, Maryland 20892-2520; (301) 496-9686.

NIH is an Equal Opportunity Employer

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**Clarion University of Pennsylvania**

**Tenure Track Positions**

**Animal Physiologist/ Aquatic Ecologist**

Two tenure track positions are available in the Department of Biology for a broadly-trained Animal Physiologist and an Aquatic Ecologist. Appointments will be at the Assistant Professor level. The Ph.D. is required by August 25, 1997 for the positions to be tenure track. Postdoctoral experience desirable. Candidates must have a commitment to excellence in teaching and the potential for developing an extramurally funded research program that includes supervision of M.S. students. Teaching duties for the Animal Physiologist include: animal physiology, biology of aging, general biology for majors and non-majors, and a course in the candidate’s area of expertise. Experience in instructional technology is desirable as is an interest in a growing preprofessional program. Teaching duties for the Aquatic Ecologist include: participation in an introduction to biology and ecology courses and upper-level/graduate courses in biometry, applied ecology, and aquatic resources management. Research interest in northeastern stream and/or lake systems is desired. For full consideration, send letter of application, curriculum vitae, three letters of recommendation, unofficial transcripts, statement of teaching philosophy and research interests, and recent reprints by January 15, 1997 to: Dr. Roger McPherson (Animal Physiology Position) or Dr. Charles Williams (Aquatic Ecologist Position), Department of Biology, Clarion University of Pennsylvania, Clarion, PA 16214-1232. For more information: Animal Physiology Position: 814-226-2560 or email: mcpherson@vaxx.clarion.edu. Aquatic Ecology Position: 814-226-1936 or email: cwilliams@vaxx.clarion.edu. Clarion University is building a diverse academic community and encourages people of color, women, Vietnam era veterans, and persons with disabilities to apply. Affirmative Action/Equal Opportunity Employer.

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**GLOBAL CAREER OPPORTUNITIES**

**Postdoctoral Position in Pharmacokinetics**

**Our profile**

The Drug Metabolism & Pharmacokinetics group at F. Hoffmann-La Roche Ltd in Basel, Switzerland, is actively involved in both drug discovery and development activities. Main tasks are to collaborate with R&D groups to optimize the selection of new drug candidates, make new methodologies available to discovery and development projects and provide support in the non-clinical and clinical development of new drugs.

**Your task**

To study active transport processes involved in drug disposition and develop suitable in vitro models for studying affinity for and interspecies differences in specific carrier systems.

**Your profile**

You have a Ph. D. in pharmacy, biochemistry or a related field. Experience in molecular biology would be an advantage. You have a strong background in pharmacokinetics, along with experience in developing in vitro models to study carrier systems and in mathematical modelling of biological systems. You have an excellent command of written and spoken English, and a working knowledge of a second language, preferably German or French, would be highly desirable.

**Contact Address**

We welcome your application. Please send your application, including a current CV, to our Personnel Department, F. Hoffmann-La Roche Ltd, 4070 Basel, Switzerland, quoting reference As2179.
POSTDOCTORAL POSITION
DEPARTMENT OF OTOLOGYNGRY

Available to study neurotransmitter pathways underlying changes in the central auditory system in response to extreme sound exposure. Individuals with a Ph.D. and experience in neurophysiology and/or neuropharmacological techniques are especially encouraged to apply. This position is funded by Pfizer Pharmaceutical and offers a very competitive stipend ($42,000 plus fringe benefits). Interested individuals should send curriculum vitae and the names and telephone numbers of three referees to: Dr. James A. Kaltenbach, Department of Otolaryngology, 5E-UHC, Wayne State University, Detroit, MI 48201.

Two POSTDOCTORAL POSITIONS available in cell biology and molecular biology of autophagy in an NIH-funded pediatric arthritis center. Areas of investigation include: 1) MHC-immunoglobulin fusion protein studies to study anergy induction in autoreactive T cell clones. 2) Protein catabolism. The role of delivery of anti-inflammatory cytokines to the joint space in an experimental model of arthritis. Experience in molecular biology, biochemistry, or cellular immunology is desirable. Outstanding academic environment, competitive salary, and excellent benefits. Applicants must have Ph.D. or M.D. degree. Send curriculum vitae, summary of research experience, and names and telephone numbers of three referees to Dr. Raphael Heine, Department of Rheumatology, Children's Hospital Medical Center, Pav. 2-129, 3333 Burnet Avenue, Cincinnati, OH 45229. FAX: 513-589-5568.

POSTDOCTORAL POSITIONS, one available immediately and two anticipated openings, to participate in studies of cellular and molecular biology and pathology. Applicants should have a Ph.D. or relevant experience in protein purification and molecular techniques. Previous work with Candida pathogenic fungi, or yeast is an asset. Send resume and names and contact information for three referees to Dr. Jack C. Letheby, Department of Microbiology and Immunology, Texas Tech University Health Sciences Center, Lubbock, TX 79430. Email: micwcle@ttuhsc.edu. Texas Tech University Health Sciences Center is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study the mechanism of action of neuropeptides on lipid-derived second messenger production and their cross-talk with AMP in irritable smooth muscle and muscle cells. Candidates should have Ph.D. or relevant experience in pharmacology. Experience in molecular characterization of signal transduction pathways and publications in this area are desirable. Send curriculum vitae, brief description of research achievements, and names of three referees to: Professor Atal Abdel-Latif, Department of Biochemistry and Molecular Biology, Medical College of Georgia, Augusta, GA 30912-2100.

The Medical College of Georgia is an Equal Opportunity/Affirmative Action Employer.

A POSTDOCTORAL RESEARCH ASSOCIATE position is available December 1, 1996 to continue the study of the immunologic effects of biliary obstruction in a rat model of bile duct ligation. A background in immunology is preferred, along with experience and knowledge of molecular biology. Work will be done as part of an established collaborative research program between the Department of Surgery and the Department of Immunology and Microbiology. Cell culture and experience with molecular biology will be beneficial. Send curriculum vitae, summary of research experience, and a list of three referees to: Kim U. Kang, M.D., Vice-Chairman, Department of Surgery, MCP-Hahnemann SOM, 3300 Henry Avenue, Philadelphia, PA 19129.

Ph.D. MOLECULAR BIOLOGIST

POSTDOCTORAL FELLOW position available in the Cardiology Division, Brigham and Women's Hospital/Harvard Medical School to study molecular interactions of the extracellular matrix with the cell. Applicants must have knowledge of fibronectin and integrins and the role of fibronectin in angiogenesis. Experience in molecular biology and use of transgenic mice required. Send curriculum vitae to: Dr. Daniel Simon, Cardiology Division, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. FAX: 617-732-5132. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

National Institutes of Health National Center for Human Genome Research

One POSTDOCTORAL RESEARCH position is immediately available for study of the leukemia gene CBFB-MYH11 fusion protein. Originally generated by chromosome 16 inversion in acute myeloid leukemia subtype M4Eo. A novel gene targeting approach, knock-in, was used recently to create the CBFB-MYH11 fusion gene in the mouse. Using an "in vivo" mouse model showed that the fusion gene functions in a dominant negative fashion and blocks hematopoietic differentiation (Castilla et al., Cell, in press). Further genetic and molecular studies of this mouse model will be important. Applicants must have a Ph.D. and/or M.D. and less than five years of postdoctoral experience. Please send a curriculum vitae, statement of research interests, and the names of three references to: Dr. Paul A. Labella, Laboratory of Gene Transfer, NCHGR, Building 49, Room 3A18, 49 Convent Drive MSC 4422, Bethesda, MD 20892-4422. Telephone: 301-402-2529; FAX: 301-402-4929; Email: plah@nchgr.nih.gov. The NIH is an Equal Opportunity Employer.

Two POSTDOCTORAL POSITIONS are now available in my laboratory for those who are interested in the structure/function studies on electron transfer and energy-coupling mechanisms. One position will involve bacterial and mitochondrial transmembrane complexes focusing on the NADH:quinone, succinate-quinone, and quinol-cytochrome oxidoreductase systems. Electron paramagnetic resonance, optical, and structural methods are used in a biochemistry approach. The second position will be for the development of basic techniques in my laboratory. We also conduct collaborative projects with other laboratories with expertise in molecular biology or other spectroscopic techniques such as NMR. Experience with yeast (S. cerevisiae) is desirable. Send curriculum vitae and names of three referees to: Professor Tomoko Ohnishi, Johnson Research Foundation, Department of Biochemistry and Biophysics, University of Pennsylvania, 37th Hamilton Walk, Philadelphia, PA 19104-6089. FAX: 215-573-3748; Email: ohnishi@mail.med.upenn.edu. The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.

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. degree in Molecular Biology, Genetics, or a related field. Must have firm commitment to academic search, 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, 6066, 600 Highland Avenue, Madison, WI 53792-0001.

POSTDOCTORAL POSITION in allergy and inflammation research laboratory to study a new receptor-mediated proteinase from mast cell degranulation (DNase I, 93:10809). Candidates should have a strong background in signal transduction and/or molecular biology, preferably with experience in mammalian cell transfection or transgenic mice. Cell culture experience and cell line, viral or peptide expression systems are required. Send curriculum vitae and contact information for three references to: Howard R. Katz, Ph.D., Harvard Medical School/Brigham and Women’s Hospital, 250 Longwood Ave., Boston, MA 02115. Email: hkatz@warren.med.harvard.edu. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE

Hebrew University—Hadassah Medical School Jerusalem

To study neurons and glial cells in autonomic ganglia, using transgenic mouse models and methods for gene targeting in mice. Applicants must have experience in the patch clamp technique. Send curriculum vitae, publications list, and names of three references to: Menachem Hanani, Ph.D., Laboratory of Experimental Surgery, Hadassah University Hospita- l, Mount Scopus, Jerusalem, 91240, Israel. FAX: 972-2-8238518; Email: hananim@cc.huji.ac.il.

POSTDOCTORAL AND JUNIOR FACULTY POSITIONS

Cell Signaling/TGFβ/Cell Cycle/Human Cancer

Available immediately. Cellular/molecular studies to identify TGFβ signaling components. Experience in cell biology and molecular biology experienced documented in publications. Send curriculum vitae and three letters of reference to: Dr. Kathleen M. Mulder, Department of Pharmacology, School of Medicine, University of Nevada, Reno, University Drive, Hershey, PA 17033. FAX: 717-531-5013; Email: kmml515@psu.edu. Penn State is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWS/RESEARCH ASSOCIATES: Two positions are available immediately for highly motivated individuals with strong backgrounds in neurochemistry and/or neuropharmacology to study signal transduction pathways involved in molecular mechanisms of anesthetic action. For one position, expertise in cells and their molecular/cell biology nature is required while for the other, expertise in pharmacodynamic techniques including in vivo isolated tissue experiments is required. Knowledge of CNS pharmacology and experience in in vivo drug delivery will be a plus. Send curriculum vitae, a one page description of research interest, interests, and future goals, and names of three references to: Dr. M. Bansalni, Department of Anesthesiology, University of Nevada, Reno, Medical Center, 550 First Ave- nue, New York, NY 10016.

POSTDOCTORAL POSITIONS available immediately in biomimetics and tissue engineering. Expertise is required in one of the following areas: 1) polymer synthesis, 2) polymer processing, 3) drug delivery, and 4) cell and tissue culture. Submit curriculum vitae and names of three references to: Dr. A. G. Mikos, Rice University, Institute of Biosciences and Bioengineering—MS 144, 6100 Main Street, Houston, TX 77005-1892. FAX: cnpw-bioci@rice.edu; Institute/IBR/bioc bölge/index.html

Rice University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION is available immediately to study two other potential targets to identify bacterial populations in food. Project includes development and use of oligonucleotide hybridization assays and the use of phage display libraries to develop potential oligopeptide probes. Applicants must have a strong background in molecular biology and protein sequencing. Send curriculum vitae, a statement of research interests, and the names and addresses of three references to: Dr. Andrew K. Benson, Department of Food Science and Technology, University of Nebraska—Lincoln, 358 Food Industry Complex, Lincoln, NE 68583-0919. FAX: 402-472-1693; Email: abenson@foodsci.unl.edu.

POSTDOCTORAL POSITION in gene expression to study transcription factor regulation of Drosophila muscle development. Applicants should have a background in computational genomics and/or in molecular biology. 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. University of Illinois, Chicago is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available for a biochemist to perform mechanistic studies on yeast oroticine 5’-monophosphate decarboxylase at San Francisco State University (SFSU) and University of California, San Francisco (UCSF). Experience in protein overexpression and purification required; site-directed mutagenesis and enzymology desirable. Send curriculum vitae and names of two references to: Dr. Weiming Wu, Department of Chemistry, San Francisco State University, San Francisco State University, San Francisco, CA 94132. FAX: 415-338-2384; Email: wuww@sfsu.edu.

POSTDOCTORAL POSITION is immediately available to investigate the mechanism(s) by which intestine-specific rat pro-opiomelanocortin (POMC) gene expression controls cell proliferation and differentiation. A strong background in molecular biology, protein chemistry, and cell biology is highly desirable. Please forward a curriculum vitae and names of three references to: Dr. Gregory W. Aponte, Department of Nutritional Sciences, Univer- sity of California, Berkeley, CA 94720-3104.

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SCIENCE • VOL. 274 • 22 NOVEMBER 1996
**EMBL**

European Bioinformatics Institute (EBI), Hinxton, UK

The European Molecular Biology Laboratory, an international research organization with a headquarters laboratory situated in Heidelberg, Germany, has vacancies at its Outstation, the European Bioinformatics Institute (EBI) at Hinxton, near Cambridge, UK for

**RESEARCH AND DEVELOPMENT OFFICERS (2)**

**APPLIED COMPUTING AND BIOINFORMATICS**

To participate in a European research project designing and developing new information retrieval systems which are capable of interoperating between independent data sources and their services. This project will utilise leading edge technologies requiring innovative and well motivated candidates holding a relevant university degree.

A PhD would be an advantage. Candidates should be familiar with biological databases and have programming skills in C++ and/or Java. Experience of database theory and design, WWW and CORBA would be useful but not essential.

The contract will be for three years in the first instance.

EMBL is an inclusive, equal opportunity organization.

The closing date for applications is 15.01.1997

Please send your CV, quoting ref. no. 96/61, to:

The Head of Human Resources, EMBL, Postfach 10.2209, 69012 Heidelberg, Germany.

Fax: +49 6221 387555 email: jobs@EMBL-Heidelberg.de

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**GENESIS**

Genesis Research and Development Corporation Limited

Plant Molecular Biology

Research Scientists/Postdoctoral Fellows

Genesis is a biotechnology company located in Auckland, New Zealand, with research programmes centred on molecular mechanisms of development in plants and animals. Genesis currently has a staff of 60 scientists and support staff.

We seek molecular biologists with experience in plant development or biochemistry to join a multidisciplinary team involved in the regulation of maturation phase changes and wood development in forestry trees. We are especially interested in candidates with experience in the following areas:

- Plant transgenics
- Cloning and analysis of plant promoters
- Regulation of plant reproduction
- Plant biochemistry

We have positions as staff scientists for individuals with postdoctoral experience and as postdoctoral fellows for individuals who have just completed a Ph.D. We offer a competitive salary and a stimulating scientific environment.

Interested candidates may fax or mail applications and enquiries concerning Genesis and current research programmes to Dr. J.D. Watson, Director of Research, Genesis Research and Development Corporation, P.O. Box 50, Auckland, New Zealand.

Fax: +64 09-373-5601.

Applicants should send a cover letter detailing experience relevant to one or more of the subdisciplines listed above, a curriculum vitae and the names of three scientists who can evaluate their accomplishments and potential. Applications close 15 December 1996.

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**KUWAIT UNIVERSITY**

Health Sciences Centre

Faculty of Medicine

**Post of Chairperson**

in Medical Biochemistry

The Faculty of Medicine is seeking applications for the post of Chairperson for the Department of Biochemistry. Applications are sought from individuals with a strong academic, research, and administrative background. The post will be at the rank of Professor. Candidates with extensive experience in teaching and administrative background in a medical school are preferred. Specialization may be in any of the following areas: molecular biology, endocrinology, enzymology, nutrition, and clinical chemistry. Applicants must have 15-20 years of experience in the field, after completing their Ph.D.

The Department is currently involved in undergraduate programs and is planning to reactivate its M.Sc. programs.

A generous package is offered, which includes annual round trip airline tickets for appointee, spouse, and children to the age of 18 years; allowances for accommodation and furniture; 60 days paid summer leave; two weeks midyear break; end-of-service gratuity, school allowance for children up to 18 years of age; and free medical care in Kuwait government hospitals.

Monthly (tax-free) salary according to the University’s Academic Staff salary scale. A clinical allowance is paid by the Ministry of Health for 10 months a year to staff involved in the Ministry program.

Applications may be obtained from:

Embassy of the State of Kuwait
Kuwait University Office
3500 International Drive, NW
Washington, DC 20008
U.S.A.
Telephone: 202-363-8055

Applicants should send application, a copy of their C.V., and the names and addresses of three references to:

The Dean
Faculty of Medicine
Kuwait University
P.O. Box 24923
13110 Safat, KUWAIT
Fax: 965-533-8936
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POSTDOCTORAL POSITION
A POSTDOCTORAL POSITION is available immediately to study drug- and disease-induced regulation of gene expression in the CNS. The project involves: 1) cloning of the gene(s) perturbed by either drug treatments or neuropathological disorders; 2) elucidating the function(s) of the genes in the CNS; and 3) characterizing the factors governing the regulation of the genes. The successful candidate will have a Ph.D. in Molecular Biology, or in a related discipline with experience in gene cloning, PCR, RNA protection assays, and regulation of gene expression in mammalian systems. Interested applicants should send a curriculum vitae, three letters of recommendation, and a career goal to: Richard F. Tuan, Dept. of Anesthesiology, University of Washington, Seattle, WA 98195. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
University of Washington Department of Biochemistry
Available January 1, 1997. Seeking recent Ph.D. or M.D. interested in working on a project involving the purification and characterization of specific proteins from human macrophages. Must have solid background in protein chemistry and molecular biology and be fluent in English. Position restricted to individuals who have no more than one year of prior postdoctoral experience. Three-year maximum support for 1996 or early 1997. Ph.D. candidates should send curriculum vitae, three letters of recommendation, and a career goal to: Dr. John Glomset, Department of Biochemistry, Box 357270, University of Washington, Seattle, WA 98195. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
University of North Carolina, Chapel Hill
Departments of Anesthesiology and Pharmacology
A POSTDOCTORAL POSITION is available in neuropharmacology (patch clamp, PT-PCR, and neuroanatomy techniques are primary) to study the mechanism of anesthetic effects on ligand and voltage-gated ion channels. The successful candidate must have a Ph.D. degree with a background in neurophysiology or pharmacology. Experience with patch clamp or molecular biology techniques is desirable. Interested applicants should send their curriculum vitae and names of three references to: Dr. John Glomset, Department of Neurology, UNC at Chapel Hill, Chapel Hill, NC 27599-7010. University of North Carolina is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS
CELL BIOLOGY—MAYO CLINIC
Position available to study the role of the large GTP-binding protein dynamin in vesicle-based protein transport in epithelial cells and neurons. Another position available to study the detrimental effects of alcohol on vesicle-based protein trafficking in epithelial cells. Applicants should be permanent U.S. residents or citizens; have a Ph.D. or M.D. degree; and be proficient with chemical, cell biological, or molecular techniques. Send résumé and letters of reference to: Dr. Kenneth F. Kominiarek, Mayo Clinic, 200 First Street SW, Rochester, MN 55905. Mayo Foundation is an Affirmative Action/Equal Opportunity Educator and Employer.

POSTDOCTORAL POSITION
POSTDOCTORAL POSITION
MOLLECUAR MOLECULAR BIOLOGY
The Infectious Diseases Section of the Bowman Gray School of Medicine, Wake Forest University, announces an opening for a two-year postdoctoral position. Candidates should have a Ph.D. degree in a molecular discipline, preferably with mycology experience. Duties will be 100% research, focused on pathogenesis of human opportunistic fungal infections including aspergillosis and cryptococcosis. Applicants should submit a curriculum vitae and the names of three references. Applications will be accepted until the position is filled. Please send materials to: Ronald G. Washburn, M.D., Associate Professor of Internal Medicine, Section on Infectious Diseases, Bowman Gray School of Medicine, Wake Forest University, Medical Center Boulevard, Winston-Salem, NC 27187. Email: rwashburn@bsgm.edu. Affirmative Action/Equalification Employer.

GLOBAL CAREERS

DEPARTMENT OF BIOCHEMISTRY
ETH Zurich
Protein and Molecular Biology Technologist
To work in a multidisciplinary research team on the mechanism of cholesterol and lipid absorption in the small intestine.
Job duties involve the preparation of brush border membrane vesicles from small intestine, lipid uptake measurements using brush border membrane vesicles and other models of the brush border membrane, isolation and purification of integral membrane proteins, and molecular biology research using the following techniques: 1) For lipid uptake measurements: fluorescence and other spectroscopic assays. 2) For protein chemistry: gel filtration, ion exchange chromatography, affinity chromatography, chromatofocusing, SDS-PAGE and immunoblotting, protein and lipid analysis. 3) For molecular biology: DNA and RNA isolation and analysis, restriction mapping of DNA and RNA, electrophoresis, hybridization, southern and northern blotting, recombinant DNA techniques.
Applicants must have a B.S. in biochemistry, biology, molecular biology, or a related field. Salary is negotiable and will depend on experience and expertise, in the range of $25,000 to $55,000. Please send complete curriculum vitae together with a statement of your research experience and expertise and letters of reference to: Prof. Dr. H. Hauser, Department of Biochemistry, Swiss Federal Institute of Technology, CH-8092 Zurich, Switzerland.

DEPARTMENT OF BIOCHEMISTRY
ETH Zurich
Ph.D. Studentship
The STUDENTSHIPS are available immediately and will be tenable for three to four years with a taxable grant of $24,000 per annum. We are seeking outstanding undergraduates who are interested in undertaking a Ph.D. study in a multidisciplinary research group. They will be working on cholesterol and lipid absorption in the small intestine. Proteins of the brush border membrane and the epithelial cells are involved in lipid absorption, and the main aim of the project is to isolate and characterize these proteins and also to identify the cDNA encoding these proteins. Candidates who hold a first class honours degree in biochemistry, molecular biology, or a related field, should send a full curriculum vitae and two to three letters of reference to: Prof. Dr. H. Hauser, Department of Biochemistry, Swiss Federal Institute of Technology, CH-8092 Zurich, Switzerland.
In vivo gene transfer using in vivo electroporation in rat brain tumors, with the BTX T 820 and the Optimizor® 500

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University of British Columbia
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