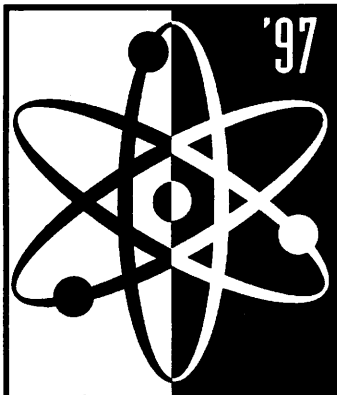


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## IGEN International, Inc.

IGEN International, Inc., a rapidly growing life sciences company in Gaithersburg, MD, has an immediate opening for a Director, Separations Products Research and Development, and a Senior Research Scientist/Project Manager.

### DEVELOP SEPARATIONS PRODUCTS

IGEN is developing a separations product business based on its proprietary position in two significant, new technologies: **Molecularly Imprinted Polymers** and **Carbon Nanotubes**. This is an opportunity for an experienced scientist with exceptional vision, creativity, and productivity to participate in the rewards of creating a new separations business directed at the analytical laboratory and pharmaceutical processing.

#### DIRECTOR, SEPARATIONS PRODUCTS RESEARCH AND DEVELOPMENT

You will build a research and product development group which will new/create new separations materials and methods based on molecular imprinting and carbon nanotubes. Your development efforts will bring to market new products which improve the analysis and production of life sciences molecules. You will manage outside research and participate in the development of commercial partners and key customers. To qualify for the position you will need a Ph.D. in organic chemistry or an allied field. You will be an innovative thinker and a motivated leader. You will have developed commercial separations products and understand the separations needs of the pharmaceutical industry. Strong communication skills are essential.

Attn.: Human Resources/GH

### DEVELOP NEW ENVIRONMENTAL/FOOD DIAGNOSTIC TESTS

IGEN is developing a new line of diagnostic tests appropriate for the environmental and food/dairy markets utilizing its proprietary electrochemiluminescent detection technology. A scientific manager with the following qualifications is needed to drive these efforts forward.

#### SENIOR RESEARCH SCIENTIST/PROJECT MANAGER

This scientist will be responsible for in-house research on the biology and detection of pathogens/parasites prevalent in the water, food, and dairy markets. The individual will drive new product development (kits) for detection of pathogens commonly found in these matrices. Identification, isolation, purification, and characterization of relevant pathogen antigens, then demonstration of assay feasibility will be performed prior to transfer to IGEN product development teams. This position requires a Ph.D. with a minimum of 5 years of postdoctoral experience in infectious diseases (pathogens, parasites) and (immuno)assay development, and industrial product development experience. Identification and participation in establishing new business opportunities and collaborators in these markets is a critical function, and therefore the position requires frequent travel.

Attn.: Human Resources/BC

IGEN offers an environment of innovative science, experienced business development and a commitment to developing early stage technology into commercial success. IGEN offers both an excellent compensation and benefits package and an attractive location in the heart of Maryland's high technology corridor. For more information about IGEN, visit our Web site at [www.igen.com](http://www.igen.com). For prompt, confidential consideration, we invite you to forward a resume to:

IGEN International, Inc. 16020 Industrial Drive, Gaithersburg, MD 20877.

### DGI BioTechnologies

DGI BioTechnologies, L.L.C. (DGI) is a New Jersey biopharmaceutical company formed in 1995 to develop and utilize its proprietary pathfinder technology as platform from which the Company will find active preclinical drug leads for ethical pharmaceuticals. The Company is focused on the establishment of promising drug assays and discovery leads for license to pharmaceutical and biotechnology companies. DGI has an active research program that involves the design and construction of novel antibody and peptide libraries on bacteriophage and an informatic approach to obtaining structure-function relational data on drug targets and drug leads. Programs under development include molecular pharmacology and high-throughput drug screening. DGI is currently looking for scientists with the following expertise:

#### Staff Scientist, Molecular Biology and Phage Display

Candidates should have a Ph.D. in Biology or related discipline, postdoctoral experience, and the demonstrated ability to implement molecular biology approaches to study protein interactions and protein structure-function. Familiarity with phage display techniques, cell-based receptor systems or tissue culture is a plus.

#### Postdoctoral Fellow, Molecular Biology

The selected candidate will work on a project that involves applying gene libraries on filamentous phage to structure-function relationship of selected receptors. Ph.D. in Biology or related discipline and experience in molecular biology are required.

#### Staff Scientist or Associate Scientist, Protein Purification

Candidates should have an advanced degree in Biology or related discipline and two or more years of experience on projects involving protein purification. The selected candidate will work on purification and characterization of single-chain antibodies and fusion proteins.

#### Associate Scientist, Biochemistry

The successful candidate will participate in construction and screening of gene libraries. Experience with gene cloning, expression and protein purification is necessary. Bachelor's degree and 2 years experience, or Master's degree in Biology or related discipline is required.

The Company occupies a newly furnished 7,500 sq. ft. facility in the Edison, N.J. headquarters of New Brunswick Scientific Company, in an attractive location 30 miles southwest of New York City in the proximity of several major universities and colleges, including Rutgers University (New Brunswick and Piscataway campuses) and Princeton University. DGI offers competitive salaries and benefits, as well as an excellent opportunity for career growth in a stimulating environment.

Please send your resume and list of three references to: **DGI Biotechnologies, Attn: Job Search, 40 Talmadge Road, P.O. Box 424, Edison, NJ 08818-0424.**

## Assistant Professor Position

### Department of Microbiology and Molecular Genetics Harvard Medical School and Molecular Medicine Unit Beth Israel Deaconess Medical Center

Applications for a tenure track faculty position at the Assistant Professor level are sought. The successful candidate will hold the Ph.D. and/or M.D. degrees, and have completed a minimum of two years of postdoctoral training. Applicants will be expected to establish independently funded research at the interface between cell biology and microbiology/molecular genetics and to participate in the currently existing teaching programs. Generous start-up funds and some ongoing support will be provided. The Molecular Medicine Unit faculty currently investigate protein translocation and targeting, cell-cell interactions in embryogenesis, signal transduction and ion homeostasis. Candidates should send their CV and names of three references to:

Sergei Y. Sokol, Ph.D.

Faculty Search Committee

Beth Israel Deaconess Medical Center

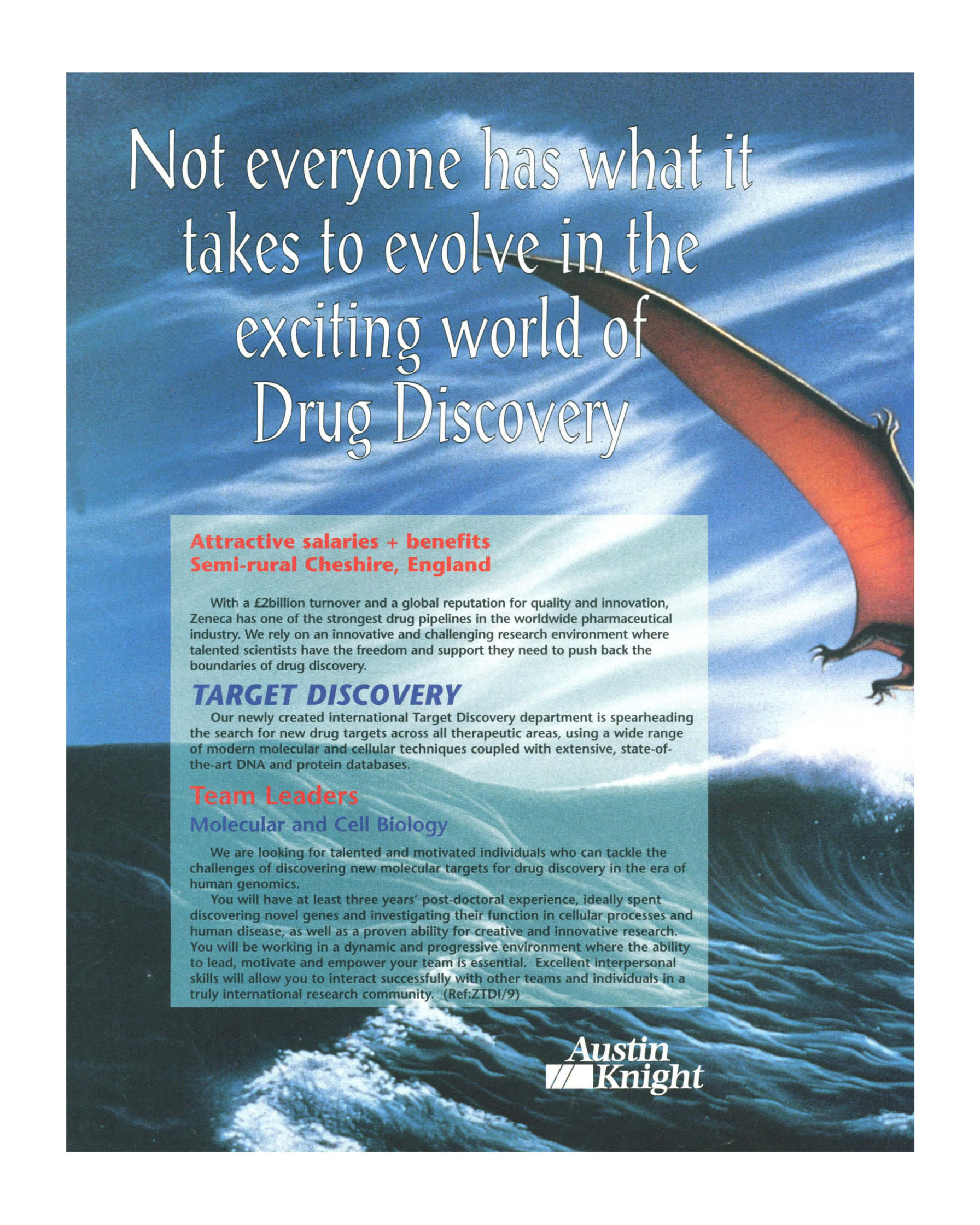
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## **TARGET DISCOVERY**

Our newly created international Target Discovery department is spearheading the search for new drug targets across all therapeutic areas, using a wide range of modern molecular and cellular techniques coupled with extensive, state-of-the-art DNA and protein databases.

## **Team Leaders** **Molecular and Cell Biology**

We are looking for talented and motivated individuals who can tackle the challenges of discovering new molecular targets for drug discovery in the era of human genomics.

You will have at least three years' post-doctoral experience, ideally spent discovering novel genes and investigating their function in cellular processes and human disease, as well as a proven ability for creative and innovative research. You will be working in a dynamic and progressive environment where the ability to lead, motivate and empower your team is essential. Excellent interpersonal skills will allow you to interact successfully with other teams and individuals in a truly international research community. (Ref:ZTDI/9)

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 **Knight**





## CONNECTIVE TISSUE DISORDERS

We have a long-term commitment to the identification and development of novel therapeutic approaches to chronic degenerative connective tissue diseases such as Osteoarthritis. For example, major initiatives include: novel in-house research projects; a collaboration with the Wellcome Trust searching for the genetic component of Osteoarthritis and; active work in non-invasive imaging techniques.

### Team Leader Osteoarthritis

Your role will be to lead a small team of Scientists looking at new approaches to the treatment of Osteoarthritis. You will take a broad overview of all the team's activities and advise on strategies for taking the work forward. It will be up to you to identify new targets, generate new ideas and get the best out of your team.

With a PhD in a bioscience related discipline, you will have at least three years' experience gained in either an academic or industrial environment. Practical skills in cell biology and advanced molecular biology techniques will be allied to experience of genomic database searching. Management and motivational skills are essential as is an awareness of the commercial implications of your work. (Ref:ZCAM/6)

### Post Doctoral Fellowship

This is an excellent opportunity to exercise your skills as we undertake sharp-end research into Osteoarthritis. Target identification involving you in pro-active, investigative work characterises this key role within the laboratory team.

You must possess a PhD, possibly some work experience, and knowledge of cell biology and advanced molecular biology techniques. Key personal attributes will be your tenacity in seeking out information, the willingness to move into new areas of investigation and your ability to share your findings with other members of the team - critical for a cohesive, targeted strategy.

The fellowship is initially for two years with a possible extension for a third year. Of equal importance to you will be the opportunity to contribute to novel in-house projects, sometimes via stimulating collaborations, as well as the encouragement to publish. (Ref:ZCAM/7)

In all positions we need people who can combine first-class, hands-on technical skills with the ability to work effectively within a team environment. In return, we offer you the opportunity to develop your career within a truly international business operating at the frontiers of technical capability.

Salaries are dependent upon qualifications and experience, and are geared to attracting high calibre individuals. For Team Leaders, the comprehensive range of benefits includes performance bonus, generous holidays, non-contributory family medical insurance, 12 months' notice and relocation assistance, if appropriate. Zeneca is located in a semi-rural area close to the major commercial centres of the North and well situated for first class cultural and leisure activities.

For more information, please send full CV to Bill Cogle, Director - Consultancy Services, Austin Knight UK Limited, 98 King Street, Manchester, United Kingdom M2 4WD. Email: [tstott@austinknight.co.uk](mailto:tstott@austinknight.co.uk). Please ensure that you quote the relevant reference number in your covering letter.

# ZENECA Pharmaceuticals





THE UNIVERSITY OF SHEFFIELD

## DEPARTMENT OF BIOMEDICAL SCIENCE

## TWO LECTURESHIPS IN BIOMEDICAL SCIENCE

Two new Lectureships in Biomedical Science are available as a result of an agreement between the University of Sheffield and the ASEAN Medical College in Ipoh, Malaysia, to teach anatomy and physiology to ASEAN medical students in Sheffield. Successful applicants will be expected to establish active research programmes with external funding in any area of biomedical science, but an ability to interact closely with existing research programmes in neuroscience, cell membrane function and signal transduction, or developmental biology and cell differentiation will be an advantage. Appointees will also be required to undertake some teaching in anatomy and/or physiology; at least one of the appointees should be specifically competent to teach neuroanatomy and physiology in the medical course. These posts are available to be taken up between 1 April and 1 October 1997.

Salaries on the scale for Lecturer Grade A (£16,045 - £21,016 pa) or Grade B (£21,894 - £27,985 pa), depending upon experience.

*Closing date for applications: 28 March 1997. (Ref: R1137)*

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Further particulars from the Director of Human Resource Management,  
The University of Sheffield, Western Bank, Sheffield S10 2TN,  
Tel: 0114-222 1631 (24hr) or e-mail: [jobs@sheffield.ac.uk](mailto:jobs@sheffield.ac.uk)  
Web site at: <http://www.shef.ac.uk/jobs/>

## IRRI

INTERNATIONAL RICE  
RESEARCH INSTITUTEPosition Announcement for  
Plant Molecular Geneticist

The International Rice Research Institute (IRRI) is seeking a plant molecular geneticist to work on genome mapping and marker-based selection for rice improvement. IRRI is supported by the Consultative Group on International Agricultural Research (CGIAR), a donor consortium including the World Bank, FAO, and UNDP. It is a nonprofit, autonomous organization engaged in research and training on rice-related technology aimed at improving the well-being of present and future generations of rice farmers and consumers, particularly those with low incomes. IRRI's headquarters are located in Los Banos, the Philippines, 65 km south of Manila.

The plant molecular geneticist will work as a member of an interdisciplinary team of plant breeders, plant pathologists, entomologists, and physiologists. Specific duties will include 1) developing a research program in molecular genetics aimed at incorporating molecular marker technology into the plant breeding program; 2) tagging genes of agronomic importance using molecular markers, with emphasis on quantitative traits; 3) developing and leading a marker-aided selection service to make the tool fully available to breeders; 4) collaborating with advanced research laboratories to develop the potential for map-based cloning strategies; and 5) contributing to biotechnology training for national rice research systems. International travel will be necessary.

Candidates should have a Ph.D. or equivalent in plant molecular biology, plant breeding, genetics, biochemistry, or related discipline. Four years of post Ph.D. experience in molecular markers mapping and quantitative trait analysis and familiarity with plant breeding strategies are required. Candidates should also have skills in interdisciplinary research and in communicating with international teams of plant breeders and other scientists. Skills in project leadership and previous experience in providing biotechnology training are desirable.

Salary and perquisites are internationally competitive. IRRI offers children's education allowances, medical insurance, and other attractive benefits. The Institute provides a gender-sensitive work environment and particularly welcomes women applicants.

Evaluation of applications will begin 1 April 1997 and continue until a suitable candidate is identified. Send a comprehensive curriculum vitae and names, addresses, and fax numbers of three referees to:

**Dr. K.S. Fischer, Deputy Director General for Research IRRI,**

**P.O. Box 933, 1099 Manila, Philippines**  
**Fax: 63-2-891-1292**

**Email: [postmaster@irri.cgnet.com](mailto:postmaster@irri.cgnet.com) (with subject title: molecular biologist position)**  
Refer to Code IR-PMG-002.



UWA

The University of Western Australia

Perth

## RESEARCH ASSOCIATE

DEPARTMENT OF COMPUTER SCIENCE AND  
CRYSTALLOGRAPHY CENTRE

(Ref:A9/97)

Applications are invited for a research appointment funded by the ARC, for 3 years. Applicants should have a PhD or equivalent in Computer Science or Informatics or equivalent related experience. Strong programming skills and a familiarity with scientific data handling are essential. Knowledge of existing data archival and retrieval formats is desirable. The appointee will develop procedures for exchanging, archiving and accessing macromolecular structure data using the STAR File Format. **For further information and copies of the selection criteria please contact** Dr N Spadaccini on telephone [61 9] 380 3452 or email [nic@acs.uwa.edu.au](mailto:nic@acs.uwa.edu.au)

**Salary Range per annum:** Level A: A\$30,130 - A\$40,889. (Minimum starting salary for appointee with PhD will be AU\$38,092)

Conditions of appointment will be specified in any offer of appointment which may be made as a result of this advertisement.

Written applications quoting reference number, telephone number, qualifications and experience and the names, addresses (including Email) and fax/telephone numbers of three referees should reach the Director, Human Resources, The University of Western Australia, Nedlands, Western Australia 6907, by **16 May 1997**.

<http://www.acs.uwa.edu.au/hrs/jobvacs/vacancies.htm>

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## POSITIONS OPEN

### EXPERIMENTAL PARASITOLOGIST

The Department of Pathology in the College of Veterinary Medicine and Biomedical Sciences at Colorado State University is seeking applicants for a tenure-track **FACULTY POSITION** in parasitology. Candidates must possess a Ph.D. degree in parasitology or a closely related field. An established investigator at the associate or full professor level is preferred. Candidates will develop an independent, extramurally-funded research program concerned with investigation of the molecular biology/biochemistry of protozoan or helminth infections and/or the vectors that transmit these diseases. Part of the commitment of that research program will be graduate student training. It is anticipated that teaching will be at the graduate level. The Department of Pathology plays a major role in the Colorado State University Center of Excellence in Infectious Disease Research. The appointed faculty member will be expected to productively interact with investigators in the infectious disease/vector biology group, and to integrate themselves within the university research environment. The salary and start-up package will be competitive and commensurate with the qualifications of the individual selected. The closing date for applications is May 1, 1997, or until suitable candidates are identified. Applicants should submit a curriculum vitae, a letter outlining professional interests and goals, and the names of three references capable of evaluating the candidate's potential. The letter should contain statements proposing a self-defined program of academic activity and/or proposed approaches to this position. Inquiries may be directed to: **Experimental Parasitologist Search Committee, Department of Pathology, Colorado State University, Fort Collins, CO 80523. FAX: 970-491-0603. Colorado State University is an Affirmative Action/Equal Opportunity Employer.**

### CELLULAR AND TUMOR IMMUNOLOGISTS FACULTY APPOINTMENTS MOUNT SINAI SCHOOL OF MEDICINE INSTITUTE FOR GENE THERAPY AND MOLECULAR MEDICINE

Mount Sinai School of Medicine is recruiting several basic science faculty to this new academic institute at all **TENURE-TRACK** levels. A major research program in cellular immunology and immunotherapy of cancers is under development. Successful applicants will be expected to develop—or have in place—strong independent research programs in antigen processing and presentation, T-cell activation and immune memory, and T-cell suppression and immune tolerance. Opportunities exist for exceptionally productive collaborations with other Institute faculty whose primary research interests are cell and molecular biology, molecular virology, stem cell development and gene therapy in animal models of disease.

We offer excellent start-up benefits and state-of-the-art laboratory space. Interested individuals should forward curriculum vitae, a summary of past accomplishments and future research interests, and three letters of reference by April 30, 1997 to: **Lloyd Mayer, M.D., Immunology Faculty Search, Institute for Gene Therapy and Molecular Medicine, Mount Sinai School of Medicine, One Gustave L. Levy Place, Box 1089, New York, NY 10029-6574. The Mount Sinai Medical Center is an Equal Opportunity Employer. We foster diversity in the workplace.**

USDA, Agricultural Research Service—Tropical Fruit, Vegetable, and Ornamental Crop Research Laboratory, in Hilo, Hawaii, is seeking a Supervisory Research Entomologist, GS-0414-14/15, to serve as **LABORATORY DIRECTOR** and provide administrative and technical leadership for all research activities at the Laboratory, with facilities in Hilo, Hawaii; Honolulu and Aiea, Oahu; and Kapaa, Kauai. Research activities of the Laboratory include basic and applied research on: a) the biology and ecology of tephritid fruit flies and other pests to develop biologically-based and environmentally-acceptable suppression, eradication, and commodity quarantine treatment technologies; b) plant molecular physiology to improve and strengthen crop production in tropical regions; and c) to assist in developing appropriate production systems. Salary range \$60,270–\$92,161 per annum (plus 15% COLA). The application deadline is April 21, 1997. Additional information on job requirements and application procedures can be obtained from the ARS homepage at <http://www.ars.usda.gov>, or call Barbara Ueda at 808-959-4301 between 8:00 a.m. and 12 noon, Hawaiian time, Monday through Friday. ARS is an Equal Opportunity Employer; women and minorities are encouraged to apply. U.S. citizenship is required.

## POSITIONS OPEN

### WEST VIRGINIA SCHOOL OF OSTEOPATHIC MEDICINE PHARMACOLOGY FACULTY POSITION AVAILABLE

The Department of Pharmacology invites applications for a **TENURE-TRACK POSITION**; appointment to be made at a level commensurate with experience. Ph.D. in pharmacology preferred; Ph.D. in related area may be considered. The successful applicant should have prior pharmacology teaching experience, particularly in the area of cardiovascular pharmacology. Research opportunities are available. Applicants should submit a letter describing their teaching experience, research interests, curriculum vitae, and three letters of reference to: **Chairperson, Pharmacology Search Committee, Human Resources Offices, West Virginia School of Osteopathic Medicine, 400 North Lee Street, Lewisburg, WV 24901.** Applications will be accepted until the position is filled. *An Equal Employment Opportunity/Affirmative Action Employer.*

### INVERTEBRATE PALEONTOLOGIST HARVARD UNIVERSITY

The Departments of Organismic and Evolutionary Biology and Earth and Planetary Sciences seek an invertebrate paleontologist with a productive record of high quality research and a demonstrated interest and ability in teaching at the undergraduate and graduate levels. The appointment will be to a **TENURED PROFESSORSHIP**. Applicants should submit, by March 31, 1997, a curriculum vitae and statement of research and teaching interests to:

**Professor Paul Hoffman  
Department of Earth and Planetary Sciences  
Harvard University  
20 Oxford Street  
Cambridge, MA 02138**

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

### PRESIDENT

**RARE Center for Tropical Conservation** seeks a **PRESIDENT** to lead the organization in its mission to promote the conservation of tropical wildlife and its habitats by developing and demonstrating comprehensive model programs for use by local and international organizations. The ideal candidate possesses a keen understanding and deep familiarity with international conservation issues, significant fund raising experience at the institutional and major donor levels, superior communication skills, considerable management experience, and proven ability to work with a geographically diverse, volunteer board. Spanish fluency is desired. Send résumé, salary history, and names of three references to: **President Search Committee, RARE Center for Tropical Conservation, 1616 Walnut Street, Suite 1010, Philadelphia, PA 19103. An Equal Opportunity Employer.**

The University of California, Davis, School of Medicine has a full-time endowed professorship position available in the tenured track as an **ASSISTANT/ASSOCIATE PROFESSOR**. Appointment will be in the Department of Internal Medicine, Nephrology and Human Physiology, one of the basic sciences departments. Candidates must possess a Ph.D. and interest in molecular or cellular biology, as related to inflammation in vascular biology or inflammation in renal injury. Applicants at the associate professor level must have an established externally-funded research program. Applicants at the assistant professor level must have postdoctoral experience with the potential to build a solid research program based on externally-funded support as well as documented productivity. The responsibilities for this position include development of an active, innovative, independent research program and participation in graduate and medical education in the departments. Address inquiries to: **George A. Kaysen, M.D., Ph.D., TB 136, University of California, Davis, CA 95616.** Position open until filled, but not later than June 30, 1997; anticipate starting date of July 1, 1998.

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**Program Officer:  
Biological and  
Chemical  
Oceanography**

The Office of Naval Research (ONR) is seeking qualified individuals to manage basic/applied research together with exploratory and advanced development programs and projects in *biological and chemical oceanography*. The sponsored research is conducted principally at U.S. universities and industrial or Federal laboratories. This is a Federal Civil Service position, GS-14/15 (\$60,270-\$92,161 per annum plus a 7.11% locality pay adjustment).

The incumbent plans, evaluates, directs, and coordinates broad science and technology projects essential to the Navy and Department of Defense. The incumbent will conceive, organize, and direct research and development programs pertaining to Navy problems and applications. Specific technical and programmatic fields or applications include, but are not limited to: biological and chemical processes/distributions, including acoustical and optical effects on the water column, atmosphere, and seabed.

Applicants must have a degree in oceanography or a related area and 1 year of specialized experience directly relevant to the applicable programmatic and technical areas described above. To be qualifying this experience must have been at a level of difficulty and responsibility equivalent to that of the next lower grade level in the Federal Service. A Ph.D. and demonstrated research and/or technology development experience is desired.

All applicants have a choice of submitting either a new Optional Application for Federal Employment (OF-612), a resume, or other written format including the old SF-171 (Application for Federal Employment). A resume or any other written format other than the OF-612 or SF-171 must contain: the announcement number; full name and mailing address; daytime telephone number; social security number; country of citizenship; veteran's preference; reinstatement eligibility; highest Federal civilian grade held; name and location of your high school, date of diploma or GED; name and location of your college or university, your major, and type and year of any degrees received. Only include work experience directly related to this position, including job title, duties and accomplishments, employers' names and addresses, supervisors' names and phone numbers, starting and ending dates, hours per week, salary, and whether we may contact your current supervisor. Also include any job-related training courses, skills, certificates and licenses, and awards. Application and the supplemental forms must be postmarked by the closing date. **Applicants may lose consideration if information necessary to determine minimum qualifications is not submitted. Applicants will not be contacted to determine minimum qualifications.**

Submit application, supplemental forms, and a list of submitted or presented publications or papers to: ONR, Satellite Human Resources Office, ATTN: Annc. #96-38 (S), 800 North Quincy Street, Arlington, VA 22217-5660.

Applications must be postmarked by April 18, 1997 and should be received by that date. **Applicants are requested to complete the appropriate supplemental forms.** For information about this vacancy and to request copies of the vacancy announcement and supplemental forms, contact ONR's vacancy hotline, 703-696-0972, or Angelica Hackney, 703-696-4649 or our TDD number, 703-696-6357. Application forms are also available on the ONR Web Site, URL <http://www.onr.navy.mil>, under Employment Annc. #96-38. For technical information, call Melbourne Briscoe, 703-696-4120, or e-mail [briscoem@onr.navy.mil](mailto:briscoem@onr.navy.mil).

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## PRINCIPAL SCIENTIST/ GROUP LEADER

### DRUG METABOLISM

The R.W. Johnson Pharmaceutical Research Institute (RWJPRI) conducts a wide range of R&D activities supporting Johnson & Johnson's pharmaceutical business units. Due to our continued growth and success, we are now seeking a Group Leader to join us in Central New Jersey.

In this high profile position, you will design and conduct *in vitro* metabolism and pharmacokinetic studies for selection of new drug candidates. This will involve model development and participation in discovery teams. To qualify, you must possess a PhD along with 1-3 years of postdoctoral experience in pharmacology or a related field.

Long considered one of the nation's most progressive employers, Johnson & Johnson is a \$21+ billion company committed to maintaining its strong reputation as a forward-thinking, "family-friendly" organization. We provide competitive salaries and comprehensive benefits including medical/dental insurance, 401(k) plan and our LIVE FOR LIFE Wellness Program with on-site fitness center. To apply, please forward a scannable copy of your resume to: Dept. 1220, Johnson & Johnson Recruiting, P. O. Box 16597, New Brunswick, NJ 08906-6597. We are an equal opportunity employer and support diversity in the workplace.



THE R.W. JOHNSON  
PHARMACEUTICAL RESEARCH INSTITUTE

a *Johnson & Johnson* company

A Recipient of the 1996 National Medal of Technology  
and New Jersey's Most Admired Company

### Molecular Genetics Urologic Cancers

Research fellow and postdoctoral fellowships are available in the Urologic Oncology Branch, NCI for scientists with experience in cellular or molecular biology for research projects dealing with:

#### VHL Tumor Suppressor Gene

W. Marston Linehan

Richard D. Klausner

1. Studies of molecular genetics of renal carcinoma, including the role of the recently identified VHL tumor suppressor gene and the processes whose disruption causes acquired or hereditary cancer are under investigation. Study of the subcellular localization, identification of associated proteins and of function of the VHL protein are underway.

#### Prostate Cancer Genes

W. Marston Linehan

2. The role of tumor suppressor genes in prostate cancer is under investigation. Study of the molecular changes associated with hereditary and sporadic prostate cancer are underway.

A background in molecular biology, cell biology or protein chemistry is optimal but not required. Applicants must have a Ph.D. and/or M.D. and less than five years of postdoctoral experience.

W. Marston Linehan, M.D.

Urologic Oncology Branch

National Cancer Institute

Bldg. 10 Rm. 2B47

Bethesda, MD 20892-1502

Phone: (301) 496 6353

FAX: (301) 402 0922

National Institutes of Health (NIH) is an Equal Opportunity Employer



## DRUG METABOLISM SCIENTISTS

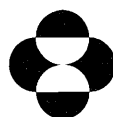
Positions are available for drug metabolism and analytical scientists who are interested in joining the drug discovery effort in Merck Research Laboratories. The selected candidates will participate actively in conducting pharmacokinetic and metabolism studies in preclinical species and provide essential information in support of drug discovery and development.

**Drug Metabolism (Associate Scientist)** - A BS/MS degree in chemistry/biochemistry (or a related field) with at least two years of research experience is required. Some knowledge of drug metabolism with demonstrated strength in modern analytical techniques such as HPLC, NMR and mass spectrometry is desirable. Other desirable experience includes isolation and purification of metabolites from biological fluids, separation technology, molecular biology, cell culture, small animal surgery and handling of radioactive material.

**Drug Metabolism (Senior Research Scientist)** - A PhD degree in pharmacology/medicinal chemistry/pharmaceutical sciences/biochemistry (or a related field) with 1-2 years of postdoctoral training in the field of drug metabolism or pharmacokinetics. The successful candidate should have demonstrated strong performance in drug metabolism research and proven ability in oral and written scientific communication.

**Mass Spectrometry (Associate Scientist)** - A BS/MS degree in chemistry/biochemistry (or a related field) with at least 2-3 years of research experience in mass spectrometry and liquid chromatography is required. A strong background in instrumental analysis and organic chemistry is required. Previous experience in quantitative and qualitative analysis of drug molecules in biological samples and sample preparation is desirable.

Merck Research Laboratories are located in Rahway, NJ, approximately 25 miles from New York City. Our salaries, benefits, and growth potential are excellent. For consideration, send your resume with the names of three references to **Merck & Co., Inc., P.O. Box 2000, Ad #25, Rahway, NJ 07065, RY80A-3**. EOE/AA/VH Employer.



**MERCK**

Research Laboratories



## NORTHWESTERN UNIVERSITY VICE PRESIDENT FOR RESEARCH AND GRADUATE STUDIES

The vice president for research and graduate studies is the senior officer with primary responsibility for the quality and vitality of Northwestern University's graduate education, research, and other scholarly activity on the Evanston and Chicago campuses. Within these areas, the vice president provides leadership in policy formulation, strategic planning, and operational oversight. The vice president's portfolio includes the Graduate School, University research centers, Office of Research and Sponsored Programs, and Technology Transfer Program. Northwestern's research awards exceed \$170 million annually, and the Graduate School enrolls 2,700 students in 80 degree programs. Staff reporting to the vice president include the dean of the Graduate School and the associate vice presidents for research and for business and technology development.

For full consideration, nominations and applications should arrive by April 15, 1997, at the office of: Secretary, Search Committee for the Vice President for Research and Graduate Studies, Northwestern University, Rebecca Crown Center 1-110, Evanston, Illinois 60208-1119.

Northwestern is an affirmative action, equal opportunity educator and employer.



## Electronic Resources Manager

Project 2061, the K-12 science education reform initiative of the American Association for the Advancement of Science (AAAS), is looking for a unique individual to lead its computer technology and information management efforts. A primary responsibility will be the design, development, and testing of new computer-based products to help K-12 educators learn more about science literacy and make changes in what and how they teach. These new products will be based on Project 2061's existing print and disk products already in wide use and on other products now under development. Products involve the full range of information technologies: multimedia, large and distributed data bases, web site development, simulations, and more. Product development will be undertaken in close collaboration with Project 2061's professional staff and consultants. Other responsibilities include supervision of the Project's computer/information technology personnel. This is a full-time regular position for an initial period of two years. Position requires advanced university or college level training leading to a Master's degree in related field (computer science, engineering, science, or mathematics); five to ten years related work experience (extensive knowledge and experience of database and web site design; comprehensive knowledge of instructional technology and materials); experience analyzing and using innovative curriculum materials, experience in using applications software; excellent communication, organizational, and analytical skills; supervisory experience; excellent skills for communicating with curriculum developers, teachers, scientist and computer systems professionals; knowledge of issues of education reform; strong commitment to improving science, mathematics, and technology education for all students. Interested applicants may send resume and cover letter with salary requirements to the **American Association for the Advancement of Science (AAAS), Human Resources Department, 1200 New York Ave., NW #101-CRD-901, Washington, DC 20005**. EOE. Non-smoking work environment.

## PROTEIN CRYSTALLOGRAPHY AND PHYSICAL BIOCHEMISTRY

### University of Oklahoma Health Sciences Center

The Health Sciences Center is in the process of expanding and enhancing its faculty and research programs in a variety of areas. Several full-time tenure-track positions are now available in the Department of Biochemistry & Molecular Biology at the Assistant, Associate, or Full Professor levels for investigators in Structural Biology, particularly the X-ray crystallography of macromolecules and structure-function analysis using biophysical approaches such as fluorescence, microcalorimetry, cryoEM image reconstruction, etc. The Department has expanded over the past two years with the appointment of Dr. Paul Weigel as Chair and the addition of five other new faculty members. Protein crystallographers are presently on the Health Sciences Center at the Oklahoma Medical Research Foundation and on the main Norman campus. NMR capabilities and facilities (400, 500, and 600 MHz) are available nearby and the Department has access to a new 300 MHz instrument on campus. A MALDI-TOF mass spectrometry facility was also recently installed in the Department. The Department expects to commit the resources needed to establish a state-of-the-art crystallography facility. Established protein crystallographers in particular are invited to inquire about details and, as successful candidates, could participate in the recruitment of the junior faculty, one of whom will also be a crystallographer. Successful candidates are expected to develop and lead independent research programs, to participate in graduate and professional teaching programs, to interact with colleagues on and off campus and to serve as a resource for other faculty and students. The University of Oklahoma has \$100 million in research support, over half of which is at the Health Sciences Center. There are six colleges in the University of Oklahoma Health Sciences Center located on a 200 acre modern campus in Oklahoma City, with over 3,300 students and 2,200 faculty. Within the last two years, new buildings for Biotechnology, Family Medicine, a health club, out-patient clinic and a Student Center have been completed. A Biomedical Research Center Building (100,000 sq. ft.) is under construction. Review of applications will begin March 20, 1997, with a possible starting date of June 1st, 1997. The positions will remain open until filled. A letter of application, curriculum vitae, outline of current and future research activities, selected reprints if appropriate, and names of four references should be sent to **Dr. Gillian Air, Chair, Search Committee, Department of Biochemistry & Molecular Biology, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, OK 73190**. Information about the Department can be found in our web site at <http://www.uokhsc.edu/home/college/medicine>. The University of Oklahoma is an Equal Opportunity/Affirmative Action Employer.



## U.S. Department of Energy Accepting Grant Applications

The Office of Health and Environmental Research (OHER) of the Office of Energy Research, U.S. Department of Energy (DOE), hereby announces its interest in receiving applications for grants in support of the Microbial Genome Program (MGP). The MGP focus is on developing and using high-throughput microbial genome sequencing that will provide functional genomic sequence and mapping information on microorganisms with environmental or energy relevance; of phylogenetic significance, and of potential commercial importance and application. Bioinformatics tools relating to complete genomic sequences are also of importance to the MGP.

### Preapplications

- should be received by March 24, 1997.
- send to Dr. Marvin E. Frazier, Office of Health and Environmental Research, ER-72, Office of Energy Research, U.S. Department of Energy, 19901 Germantown Road, Germantown, MD 20874-1290, e-mail: lana.ahalt@oer.doe.gov.

### Formal applications

- should be received by 4:30 p.m., E.D.T., June 9, 1997.
- should be forwarded to U.S. Department of Energy, Office of Energy Research, Grants and Contracts Division, ER-64, 19901 Germantown Road, Germantown, MD 20874-1290, ATTN: Program Notice 97-10.

Applications are being sought in three complementary areas: genomic sequencing, functional analysis, and bioinformatics. Each application must clearly state which area is being addressed; if an applicant wishes to address more than one area, the application must clearly describe the expected advantages of an integrated approach.

Potential applicants are strongly encouraged to submit a brief preapplication that consists of two to three pages of narrative describing the research objectives and method of accomplishment. Preapplications will be reviewed relative to the scope and research needs of the BER Microbial Genome Program, as outlined in the summary paragraph and in the SUPPLEMENTARY INFORMATION. Principal investigator telephone number, FAX number, and e-mail address are required as part of the preapplication. A response to each preapplication discussing the potential programmatic relevance of a formal application will be communicated to the Principal Investigator within 14 to 21 days of receipt.

It is anticipated that approximately \$7 million will be available for all MGP awards, five to ten awards are anticipated, contingent on availability of appropriated funds in FY 1998. Multiple year funding is expected, also contingent on availability of funds and progress of the research. Previous awards have ranged from \$200,000 to \$2 million per year with terms of one to three years.

For further information contact: Dr. Marvin E. Frazier, ER-72, Office of Health and Environmental Research, Office of Energy Research, U.S. Department of Energy, 19901 Germantown Road, Germantown, MD 20874-1290, telephone: (301) 903-5468, e-mail: lana.ahalt@oer.doe.gov. Access to ER's Financial Assistance Application Guide is possible via the World Wide Web at: <http://www.er.doe.gov/production/grants/grants.html>.

## UAB VISION SCIENCE RESEARCH CENTER VSRC University of Alabama at Birmingham (UAB)

The UAB Vision Science Research Center (VSRC) is a University-wide Interdisciplinary Research Center comprised of 43 faculty in many disciplines with a particular strength in the area of **Visual Neuroscience**. Further information on the VSRC can be found at <http://vision.vsrc.uab.edu>.

### Postdoctoral Positions

VSRC faculty who currently have postdoctoral positions available are listed below along with their research interests.

- Dr. Franklin Amthor - *Retinal information processing mechanisms and projections*
- Dr. Ramon Dacheux - *Molecular biology/electrophysiology of mammalian retina*
- Dr. Allan Dobbins - *Models of vision; visual cortex electrophysiology; fMRI*
- Dr. Paul Gamlin - *Neural control of eye movements; cortical electrophysiology and fMRI*
- Dr. Timothy Gawne - *Neural mechanisms of visual perception; cortical electrophysiology*
- Dr. Kent Keyser - *Retina and central visual structures: neurotransmitters and receptors*
- Dr. Stuart Mangel - *Synaptic plasticity and circadian rhythmicity in the vertebrate retina*
- Dr. Richard Mayne - *Vitreous structure and pathology*
- Dr. Lawrence Mays - *Neural control of ocular vergence and accommodation*
- Dr. Thomas Norton - *Neural regulation of eye size; control of scleral extensibility*
- Dr. Jean Peduzzi - *Neuroprotection and regeneration in the CNS after traumatic injury*

### Predocctoral Positions

The Graduate Program in Vision Science has positions available for study through various interdisciplinary programs that lead to a doctoral degree. Potential candidates must have completed an undergraduate degree in biological, physical, or health sciences. Trainee fellowships are funded by the National Eye Institute, other Federal agencies, and the UAB Graduate School.

### Combined Program in Vision Science

Funded positions are available in a combined OD/PhD program for students interested in obtaining both a research degree in vision science and a clinical degree in optometry. Students admitted to this highly competitive program receive substantial benefits in the form of stipends and waiver of tuition and fees.

For further details of these opportunities please contact: **UAB Vision Science Research Center, 622 Worrell Building, University of Alabama at Birmingham, Birmingham, AL 35294.** Clearly indicate in your correspondence the position of interest.

*UAB is an equal employment opportunity employer.*

## FAIRCHILD TROPICAL GARDEN

has two scientific positions available:

### DIRECTOR OF RESEARCH

A background in botanical research is required along with a proven track record of collaboration and grant-winning ability. Must have experience, energy, and ability to move a small but strong research department to the forefront of international botanical science. Reporting to the Director, the ideal candidate will be a self-starter able to work within a corporate, not-for-profit institution and will be able to balance a diverse portfolio of research programs and to catalyze and develop new ones. He/she will lead research at the Garden.

The successful candidate will possess a Ph.D. degree and accomplishments in the field which provide professional credibility; a track record successfully developing collaborative research programs and managing those programs to meet institutional goals and objectives; experience in preparing research proposals and budgets and the ability to work within approved funding to meet program objectives; and action-oriented ability to translate ideas into results.

### RESEARCH SCIENTIST

Coordinate and develop Fairchild's South Florida Plants and Environments Program. A background in scientific research with an emphasis on conservation, environmental or floristic work is required. The position will include supervision and curation of the Garden's 80,000-sheet herbarium which specializes in Florida and Bahamian plants, palms, cycads, and cultivated plants. South Florida Plants and Environments is a top research priority for the institution, and research could include: studies of invasive plant species; studies on the flora of Florida; interpretation of coastal communities and their ecology; and enhancement of conservation work on rare and endangered plants. This position is an excellent opportunity for a biologist who wants to take advantage of Fairchild Tropical Garden's unique location, make a real difference to the threatened biodiversity of south Florida, and develop a significant research program.

The successful candidate will possess a degree and accomplishments in the field which provide professional credibility; strong leadership skills with vision, integrity and the self-confidence to motivate a variety of constituencies; well-developed communication skills at all levels; experience in preparing research budgets; and the ability to translate ideas into results.

Fairchild Tropical Garden comprises 83 acres of landscaped grounds with over 4,000 wild-collected species. The 8-acre research center and nursery complex is located about one mile from the public garden. Established in 1938, the Garden has an annual budget of \$3.4 million and a staff of 54.

To be considered for either position, please send a letter and current curriculum vitae to: **Dr. Brinsley Burbidge, Fairchild Tropical Garden, 10901 Old Cutler Road, Miami, FL 33156. Equal Opportunity Employer.** No phone calls, please.



## Applications Scientist

At **Molecular Devices**, our proprietary technologies have allowed us to develop revolutionary new analysis systems that combine instruments, living cells and software to make exciting new products for the life sciences industry. We've been growing aggressively during the past three years, and our continued success has created the following opportunity.

We are seeking a scientist to join our Applications Support group. You will be responsible for demonstrating scientific applications for our Systems. In addition, you will be involved in experimentation with customer samples, giving technical seminars, providing scientific support to customers and internal staff, and will assist in the development of new business opportunities in cell biology.

Requires an MS or Ph.D. in cell biology/pharmacology. Must have excellent oral and written communication skills and a desire to work closely with others. Industrial and high throughput screening is a plus. Significant travel will be required.

Molecular Devices offers a competitive compensation and benefits package. Please send your resume to: Molecular Devices Corporation, Attn: Professional Staffing, 1311 Orleans Drive, Sunnyvale, CA 94089. FAX: (408)747-3699. E-mail: [hr@moldev.com](mailto:hr@moldev.com). Principals only, please. EOE.



## A new global leader in pharmaceuticals is born.

Innovative. Progressive. Responsive. This best describes our philosophy at **Novartis Pharmaceuticals Corporation**. Resulting from the merger of Ciba and Sandoz, Novartis is now the second largest pharmaceutical company in the world. And we will continue to grow by discovering and developing innovative prescription drugs that treat a wide variety of diseases and conditions — helping millions of people live longer, healthier lives. We are also dedicated to providing a stimulating environment that's conducive to professional growth. We invite you to investigate the following opportunities at our state-of-the-art northern New Jersey locations:

### UNIT HEAD—DRUG METABOLISM

You will be responsible for the design and conduct of *in vitro* and *in vivo* drug metabolism studies, with an emphasis on enzyme induction studies. This may involve the development and use of contemporary drug metabolism techniques (e.g., organ slice cultures, hepatocytes, etc.) as well as radiotracer studies. In addition, you will write protocols, technical reports and summaries. Qualifications include a PhD in Biochemistry, Chemistry, Pharmaceutical Sciences or equivalent; 2-3 years of postdoctoral experience and 1-2 years in the pharmaceutical industry preferred. A strong background in enzymology and molecular biology is required; the ability to supervise scientists/technicians and oversee a laboratory unit is a must. Excellent verbal and written communication skills are important. Please send resume/curriculum vitae, letter of interest, and the names and addresses of three references, to: Staffing Department-MS-4091, Novartis Pharmaceuticals Corporation, Building 122/3, East Hanover, NJ 07936.

### RESEARCH SCIENTIST-CV

With a focus on producing genetically altered strains of mice, your responsibilities will include: mouse husbandry; constructing gene-targeting vectors; mammalian cell and embryonic stem cell culture techniques; and derivation of embryonic stem cells, blastocyst injection and pronuclear injections. Qualifications include a BS with 5+ years (or MS with 3+ years) of relevant experience, with the demonstrated ability to produce transgenic and gene-targeted strains of mice. Please send your resume with salary history and requirements to: Staffing Center-JN-381, Novartis Pharmaceuticals Corporation, 556 Morris Avenue, Summit, NJ 07901.

### BIOCHEMIST-ONCOLOGY RESEARCH

As a member of our Oncology Discover Research Department, you will work on programs aimed at understanding the process of cell death in tumor and normal cells. This will involve molecular cloning, protein expression and characterization of protein-protein interactions that occur in cells. Qualifications include a Master's degree in Molecular Biology, Biochemistry or equivalent, and 4+ years (or a Bachelor's degree with 8+ years) of hands-on experience in drug discovery research and screen development. Experience in sterile cell culture techniques is essential; a background in high throughput screening is preferred. The ability to design and perform complex experiments with a minimum of supervision, and strong written and verbal communication skills a must. Please send resume/curriculum vitae, letter of interest, and the names and addresses of three references, to: Staffing Department-MS-3992, Novartis Pharmaceuticals Corporation, Building 122/3, East Hanover, NJ 07936.

Attractive salaries and comprehensive benefits. You will find them all and much more at Novartis. Write your own prescription for success and apply today. Send your resume to the address indicated for your position of interest. We are an equal opportunity employer M/F/D/V. We appreciate your interest in our Company. Unfortunately, we will only be able to respond to those candidates chosen for interviews or additional follow-up.



## POSITIONS OPEN

### ASSISTANT PROFESSOR

The Department of Biological Sciences at the University of Alabama in Huntsville announces a tenure-earning faculty position beginning in August 1997. We are recruiting an **ASSISTANT PROFESSOR** to contribute in the instruction of our freshman biology sequence and to teach advanced level courses in one or more of the following areas: genetics, cell biology, developmental biology, and/or human anatomy and physiology. Applicants in the areas of genetics or cell biology can have animal or plant orientation. Anatomy and physiology is primarily a service course for nursing students, although it is also taken by majors and minors. The applicant should have the appropriate educational background and expertise to provide insightful instruction in one or more of the above areas and to be able to integrate modern biological knowledge at the cellular/molecular level to evolutionary, ecological, or organismal perspectives. A Ph.D. with broadly based training in one or more of the above biological disciplines is required. Postdoctoral experience is desirable. Development of a specialty course(s) at the graduate level is encouraged. Although the area of research interest is open, we are particularly interested in the ability to develop a strong, independent research program with the potential to attract extramural funding. The successful candidate will involve both undergraduate and graduate students in his/her research program. Salary is competitive. Send letter of application, curriculum vitae, statement of teaching philosophy and research interests, and have four letters of reference forwarded to: **Yvonne Hughes, Search Committee Liaison, Department of Biological Sciences, Wilson Hall, The University of Alabama in Huntsville, Huntsville, AL 35899.** Applications will be accepted for review until a suitable candidate is identified, but screening of applicants will start soon after publication of this announcement. It is anticipated that on-campus interviews will be conducted during late April or early May 1997. For further information about the university and the department, visit our homepage at <http://www.uah.edu>. Additional information about the position can be requested by Email at [campbellp@email.uah.edu](mailto:campbellp@email.uah.edu). *University of Alabama in Huntsville is an Affirmative Action/Equal Opportunity Institution.*

**MOLECULAR ONCOLOGY LABORATORY DIRECTOR.** Ph.D. tenure-track position, Department of Surgery, Medical University of South Carolina. Seeking an independent investigator able to conduct and direct high-quality molecular oncology research as part of a new tumor biology research group. Qualifications: Ph.D. with relevant postdoctoral fellowship. Should have evidence of research productivity with peer-reviewed publications and clear potential for independent funding. Responsibilities: development of an independent molecular oncology laboratory directed towards translation into cancer vaccine and gene therapy programs in conjunction with current surgical faculty. Contact: **D. J. Cole, M.D., Medical University of South Carolina Department of Surgery, 171 Ashley Avenue, Charleston, SC 29425. Telephone: 803-792-1387; FAX: 803-792-2048; Email: coledj@muscc.edu.**

Research **ASSISTANT PROFESSOR** in the Department of Anesthesiology at the University of Illinois at Chicago. Non-tenure-track position for independent investigator with research interests in the area of cerebral ischemia. Candidates should be committed to excellence in research and training and have substantial outside funding. Interested persons should address correspondence to: **Ronald F. Albrecht, M.D., Head, Department of Anesthesiology, University of Illinois at Chicago, 1740 West Taylor, m/c 515, Chicago, IL 60612, attention: June Palmer, Ph.D.** Please include curriculum vitae, names of three references, and a brief description of research program. *Equal Opportunity/Affirmative Action Employer.*

**Crustal Geochemistry/Petrology, Yale University:** The Department of Geology and Geophysics invites applications for a **SENIOR POSITION** in the area of crustal geochemistry/geochemistry to begin in the academic year 1997-1998. Send curriculum vitae, publications, and at least three names and addresses of references by April 18, 1997 to: **Prof. Ronald B. Smith, Chair, Department of Geology and Geophysics, Yale University, P.O. Box 208109, New Haven, CT 06520-8109.** *Yale University is an Affirmative Action/Equal Opportunity Employer. We especially encourage applications from qualified women and minority scientists.*

## POSITIONS OPEN

### FACULTY POSITION DEPARTMENT OF MOLECULAR CARDIOLOGY RESEARCH INSTITUTE THE CLEVELAND CLINIC FOUNDATION

The Cleveland Clinic Foundation is seeking an **ASSISTANT STAFF MEMBER** (Assistant Professor equivalent), to establish a research program dealing with leukocyte endothelial cell interactions and their relationship to cardiovascular disease. The molecular mechanisms supporting this cell-cell interaction and associated intracellular signaling events are viewed as appropriate topics of research. The successful candidate must hold a Ph.D. or M.D. degree and must have completed a minimum of four years of postdoctoral training in molecular biology and signaling mechanisms, with a strong publication record. The applicant will be expected to establish an independently-funded research program. Start-up funds and some ongoing support will be available. The Department of Molecular Cardiology currently has 13 faculty members investigating various aspects of basic cardiovascular research, including platelet adhesion receptors, integrin structure-function, integrin-induced signaling, cardiovascular remodeling, thrombolytic mechanisms, and cardiac muscle physiology. The Cleveland Clinic Research Institute is comprised of seven highly interactive departments: Molecular Cardiology, Molecular Biology, Cancer Biology, Cell Biology, Neurosciences, Immunology, Biomedical Engineering. It has a highly developed network of core service departments supporting the basic research. The applicant should send a curriculum vitae, including a summary of research interests and the names of three references to: **Dr. Subha Sen, Chair, Search Committee, Department of Molecular Cardiology/FF40, Research Institute, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195.** Please check our website for additional information: <http://www.ccf.org/ri/ccfri/hum>. *The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT PROFESSOR OF PHARMACOLOGY

The Department of Pharmacology at Midwestern University invites applications for a full-time, tenure-track faculty position at the rank of **ASSISTANT PROFESSOR.** Applicants must have a Ph.D. in pharmacology or a closely related field, a minimum of two to three years of postdoctoral training, and possess excellent oral communication skills. The successful candidate will be expected to participate in the teaching of team-taught pharmacology courses for medical, pharmacy, and allied health students at the university's main campus in Downers Grove, Illinois. In addition, he/she will be expected to develop an independent research program that is capable of attracting extramural support. Although the area of research is open, candidates with teaching expertise in the areas of antimicrobial chemotherapy or autonomic pharmacology are especially encouraged to apply. Applications, including a brief summary of research and teaching interests, and the names, addresses, and telephone numbers of four references, should be sent to:

**Walter C. Prozialeck, Ph.D.  
Department of Pharmacology  
Midwestern University  
555 31st Street  
Downers Grove, IL 60515**

*Midwestern University is an Affirmative Action/  
Equal Opportunity Employer.*

*Women/minorities/veterans/persons with disabilities  
are encouraged to apply.*

The Department of Obstetrics, Gynecology and Reproductive Sciences, University of California, San Francisco is seeking a physician-scientist at the **ASSISTANT** or **ASSOCIATE PROFESSOR** in-residence rank, to join the Department's Reproductive Biology Research Group. The successful candidate is expected to mount an independent basic research program at the cellular/molecular level in some aspect of reproductive genetics, gynecologic oncology, perinatal biology, or reproductive endocrinology. She/he should have demonstrated significant research productivity and the capacity to secure outside funding. Please send curriculum vitae and names for three letters of reference to: **Richard I. Weiner, Ph.D., Vice-Chair, Department of Obstetrics, Gynecology and Reproductive Sciences, University of California, San Francisco, San Francisco, CA 94143-0556.** *Applications from women and minority candidates are encouraged.*

## POSITIONS OPEN

### RESEARCH SCIENTIST GASTROINTESTINAL DISEASES RESEARCH UNIT, QUEEN'S UNIVERSITY/HOTEL DIEU HOSPITAL

The Gastrointestinal Diseases Research Unit (GIDRU) of Hotel Dieu Hospital and Queen's University, is recruiting an Adjunct 1 faculty member at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. The successful candidate will hold a Ph.D. degree and will have the ability to establish an independent, funded basic research program in the area of molecular gastrointestinal neurobiology. An interest in the interaction between gastrointestinal mucosal inflammation and the enteric nervous system would also be an asset. The successful candidate will have a cross appointment in the appropriate basic sciences department.

The GIDRU is a well-established group of basic scientists and clinicians with a strong track record of research in GI mucosal injury/inflammation, motility and enteric nervous system function. The successful candidate will be closely affiliated with the new Centre for Molecular Neurosciences.

Deadline for applications is April 30, 1997. Please send curriculum vitae and the names and addresses of three references to:

**Dr. P. W. Munt, Professor and Head  
Department of Medicine, Queen's University  
Etherington Hall, Room 3041  
Kingston, Ontario, K7L 3N6 Canada**

*In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. Queen's University has an employment equity program, welcomes diversity in the workplace and encourages applications from all qualified women and men, including visible minorities, aboriginal people, persons with disabilities, gay men and lesbians.*

### UNIVERSITY OF MINNESOTA TENURE-TRACK ASSISTANT PROFESSOR

The University of Minnesota Cancer Center and Department of Medicine invite applications for a tenure-track **ASSISTANT PROFESSOR** position from candidates with a strong research program in the field of mammalian cell cycle regulation as part of the new Program in Stem Cell Biology. Candidates must have a Ph.D. and/or M.D. degree (or foreign equivalent) and a minimum of three years of postdoctoral experience. They must have demonstrated the ability to carry out high quality research with publications in mainstream journals in the area of biochemical and molecular characterization of regulatory pathways that control the cell cycle in normal and malignant mammalian cells, and will be expected to develop a strong, extramurally-funded research program. Strong emphasis will be placed on the candidate's ability to interact with other faculty in the Stem Cell Biology Program, and in the Department of Medicine, the Cancer Center and Bone Marrow Transplant Program. The Stem Cell Biology Program offers excellent facilities in the University of Minnesota Cancer Center and opportunities for collaborative research. Salary and start-up funds will be competitive. Opportunities for joint appointments in other departments will exist.

Applicants should include a current curriculum vitae, statement of research interests and intentions, and three letters of reference. Please send to: **Catherine M. Verfaillie, M.D., Director, Stem Cell Biology Program, University of Minnesota, Box 806 UMMC, 420 Delaware Street, S.E., Minneapolis, MN 55455.**

Last date for receipt of applications: May 15, 1997.

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

Richard Stockton College of New Jersey: Sabbatical replacement positions for academic year 1997-1998. Geology: half-time **INSTRUCTOR** or **ASSISTANT PROFESSOR** to teach lectures and laboratories in introductory geology, the earth and/or geophysics. Marine Science: half-time Instructor or Assistant Professor to teach marine plants and additional marine science courses. Master's Degree or ABD (Instructor) or Ph.D. (Assistant Professor). Salary range: \$15,570-\$19,787 (half-time). May be higher depending on qualifications, experience, and increases in the appropriately established compensation plan. Screening begins April 4, 1997. Send letter of application, résumé, and three letters of recommendation to: **Barbara J. Byrne, Dean, Faculty of Natural Sciences & Mathematics, The Richard Stockton College of New Jersey, AA29, Pomona, NJ 08240.** *Stockton is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. R703945*



... is a rapidly developing biopharmaceutical company engaged in R & D of pharmaceuticals against serious diseases. We are seeking creative scientists to join our molecular medicine group in each of the following areas:

### Senior Scientist Molecular Medicine

Ideal candidate must have experience in immunology, physiology, pharmacology and molecular biology. The position will offer leadership of a group of scientists and technicians examining the biology of, and therapeutic approaches to animal models of asthma, allergy and infection.

### Senior Scientist Genomics

Candidate must have experience in identification of novel cDNA transcripts, polymorphism discovery and analyses, and sequencing of large DNA segments. The successful candidate will lead a team of post-doctoral fellows and technicians in these areas of gene discovery.

### Post-Doctoral Fellow Genomics

Candidate must have experience in polymorphism analysis and cDNA transcript discovery using techniques such as exon trapping. Join a team of scientists looking for new human disease genes.

### Senior Scientist Molecular Immunopharmacology

Candidate must have experience in screening of phage display libraries, in addition to a background in cellular immunology. The individual will lead the discovery of potential therapeutic agents for human disease based on these approaches.

For consideration, please submit your curriculum vitae to **Human Resources, Magainin Pharmaceuticals, Inc., 5110 Campus Drive, Plymouth Meeting, PA 19462**. MPI offers excellent compensation and benefits. EOE. No phone calls please.

## Infectious Diseases Biology Research Scientist

You've Heard of Us. Now Get to Know Us.

We are seeking an individual with a background in antibacterials discovery to join our productive multidisciplinary team and be responsible for the design and conduct of experiments to identify, clone, express, purify and characterize novel bacterial gene products and validate these as potential molecular targets for new antibacterial drug discovery. You will also develop primary and secondary in vitro systems to assess enzyme kinetics and inhibition by experimental compounds. The ideal candidate will have a Ph.D. in microbiology, biochemistry, molecular biology or a related field. A strong theoretical and practical knowledge of enzymology, bacterial genetics and molecular biology as demonstrated by work and publication history is also required. Hands-on experience with state-of-the-art computer technologies is essential. Experience working with a variety of bacterial pathogens preferred. 2-5 years' pharmaceutical experience in discovery research is desired. **Job Code: 2107**

### Research Assistant

This individual will conduct laboratory experiments to support antibacterials discovery projects. With a supervisor, you will design experimental protocols and conduct experiments. You will also collect, collate and provide preliminary analysis of data for review. A BS/MS or equivalent in microbiology, molecular biology or related field and 3+ years' research experience in an academic or industrial setting are required. You will have a solid understanding and experience with molecular biology techniques including RNA and DNA isolation, PCR, plasmid construction and E.coli or Baculovirus expression as well as experience with protein purification and analysis. Experience with pathogenic bacteria is a plus. **Job Code: 2108**

### Post-Doctoral Position Molecular & Biochemical Mechanisms of Macrolide Resistance

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

Strains of staphylococci resistant to erythromycin by cleavage of the macrocyclic nucleus or by unknown mechanisms have been detected. Many of these strains also efflux 14- and 15-membered macrolides using MsrA. The aim of the work is to characterize the genes and proteins encoding the macrolide inactivating activities after cloning in *Escherichia coli* or *Staphylococcus aureus*. Characterization of the products of inactivation using NMR techniques and the development of an efflux system from purified membrane vesicles is also anticipated. The award is for three years, with the first 18 months to be spent in the Infectious Diseases department of Pfizer's Groton, CT Central Research Facility, under the direction of Dr. J. Sutcliffe. The collaborative project will continue an additional 18 months in the laboratory of Pr. P. Courvalin, Unité des Agents Antibactériens, Institut Pasteur, Paris, France. **Job Code: 2109**



We're part of the cure.



## POSITIONS OPEN

### FACULTY POSITION IN ENVIRONMENTAL MEDICINE AND TOXICOLOGY UNIVERSITY OF ROCHESTER

The Department of Environmental Medicine at the University of Rochester Medical Center invites applications for a tenure-track position to be filled at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. The candidate's research interest should be in the general area of steroid hormone receptor-mediated signal and transduction processes. We are particularly interested in individuals working on the role of phosphorylation/dephosphorylation in the regulation of these processes. The Medical Center has recently announced plans for a major expansion of research activities and facilities focusing on the areas of aging and development, cancer, and vaccine biology and immunology. Applicants whose research interests are also related to these areas are particularly encouraged to apply. The successful candidate is expected to maintain an independent research program and participate in the graduate program in Toxicology that is administered by the Department. Review of applications will begin immediately and will continue until the position is filled. Applicants should send their curriculum vitae, a statement of research interests and goals, and three letters of reference to: **Dr. Thomas A. Gasiewicz, Chair, Faculty Search Committee, Department of Environmental Medicine, University of Rochester Medical Center, Box EHSC, 601 Elmwood Avenue, Rochester, NY 14642.** For information about the Department, see web site: <http://www.envmed.rochester.edu>.

The University of Rochester is an Equal Opportunity/Affirmative Action Employer. Applications from women and underrepresented minorities are encouraged.

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

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

Applicants should send their curriculum vitae, statement of research interests, and the names of four references by April 15, 1997 to:

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

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

### MOLECULAR GENETICS

Applications are invited for a tenure-track **ASSISTANT PROFESSOR** faculty position in Molecular Genetics. The Division of Life Sciences offers the Ph.D. with an emphasis in neurobiology. Requirements include a doctoral degree in the appropriate discipline and postdoctoral experience. Candidates must have demonstrated research accomplishments and a strong commitment to undergraduate and graduate teaching. Candidates who have research interests in mammalian systems or neurobiology are preferred. Set-up funds and laboratory space are available. Send curriculum vitae, a letter describing research interests, selected publications, and the names, addresses, and telephone numbers of three people who will write reference letters to: **Dr. Joe L. Martinez, Jr., Director, Division of Life Sciences, The University of Texas at San Antonio, San Antonio, TX 78249-0662,** by April 28, 1997. Applicants who are not U.S. citizens must state current visa and residency status. Position is pending budget approval. *University of Texas at San Antonio is an Affirmative Action/Equal Opportunity Employer. Minorities and women are especially encouraged to apply.*

## POSITIONS OPEN

### FACULTY POSITION

The Department of Biology, Rochester Institute of Technology invites applications for a tenure-track, **ASSISTANT PROFESSOR** position. The position is pending, subject to final budget approval. Assume responsibility for portions of existing introductory biology lecture/laboratory courses that are crucial foundations for the Department's 360 undergraduate biology and biotechnology degree majors and several other science-based degree programs on the campus. Possible development of course in area of expertise. Research in specialty area encouraged. Share advising of department majors and other service activities with 11 full-time faculty. Requires Ph.D. degree in an area of the biological sciences. Capable of using innovative teaching techniques, including multimedia. Teaching experience at the undergraduate level and some postdoctoral experience preferred. Experience with bioinformatics or other computer applications in biology strongly desired. Position to start September 1, 1997. Applications accepted and reviewed until position is filled. Submit curriculum vitae and arrange to have three reference letters sent to: **Chair, Search Committee, Biology Department, Rochester Institute of Technology, 85 Lomb Memorial Drive, Rochester, NY 14623-5603.** *Rochester Institute of Technology is an Equal Opportunity/Affirmative Action Employer, and especially encourages applications from persons able to contribute in a meaningful way to the Institute's commitment to diversity and pluralism.*

### TENURE-TRACK POSITIONS AVAILABLE

**ASSISTANT/ASSOCIATE PROFESSOR, Oral Biology:** Applications are invited for two full-time, tenure-track faculty positions. The positions will be available as early as September 1997, but may be filled during the academic year. Applicants must have a doctoral degree, appropriate postdoctoral experience, and will be expected to develop research programs with external funding. Areas of research should be focused on the head and neck biology of the following: mineralization and demineralization; soft connective tissue; and the immune system. Other interests in the department include craniocervical systems: developmental, functional, and pathological anatomy. Teaching competence is required at the dental, graduate, and postgraduate student levels and should include either or both general as well as oral/dental histology and oral immunobiology. Application deadline is May 1, 1997, or until the positions are filled. Priority consideration will be given to applications received by May 1. Applicants should send curriculum vitae, statement of research interests, and the names of three or more references to: **Dr. James H. Fuller, Chair, Search Committee, Department of Oral Biology, College of Dentistry M/C 829, The University of Illinois at Chicago, Chicago, IL 60612-7213.** *University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

### UCLA SCHOOL OF MEDICINE POSTDOCTORAL POSITIONS CANCER RESEARCH

Seeking postdoctoral **RESEARCHERS** from scientifically acclaimed graduate programs with knowledge and interest in the molecular biology of cancer. Applications are invited from Ph.D.s or M.D.s with a strong background in cellular and molecular biology; must desire an academic career. Successful candidates will work on various aspects of basic science research of cancer. Salary will equal or exceed NIH standards. To apply, send your curriculum vitae and one-page description of professional/research goals along with names, addresses, and telephone numbers of references to: **H. Phillip Koeffler, M.D., Division of Hematology/Oncology, Cedars-Sinai Medical Center/UCLA, 8700 Beverly Boulevard, B-213, Los Angeles, CA 90048.** *Equal Opportunity Employer/Affirmative Action.*

### RESEARCH ASSISTANT

**RESEARCH ASSISTANT** is needed for studies of HIV latency and host genetic resistance to HIV. Cell culture and molecular biology experience (minimum one year) is required. This project is financially supported by a major foundation with research direction and evaluation at University of Texas Medical Branch, Galveston facilities. Send résumé only (no telephone calls) to: **Dr. Miles Cloyd, Professor, Department of Microbiology and Immunology, University of Texas Medical Branch, Galveston, TX 77555-1019.** *University of Texas Medical Branch is an Equal Opportunity/Affirmative Action Employer, Minorities/Females/Disabled/Veterans.*

## POSITIONS OPEN

### UNIVERSITY OF UTAH SCHOOL OF MEDICINE Ph.D. MOLECULAR BIOLOGIST: RESEARCH LABORATORY DIRECTOR

The Division of Reproductive Sciences/Department of Obstetrics and Gynecology is seeking applications for the above non-tenure-track position. Academic rank: **RESEARCH ASSISTANT PROFESSOR**. Start date: immediately. The successful candidate is expected to become an integral member of a research group concerned with the molecular and cellular endocrinology of the mammalian ovary. Participation in the delineation of the research agenda, in day-to-day operations, and in supervision of postdoctoral trainees is anticipated. Prior experience in reproductive biology is not a prerequisite. Experience with differential screening technology is desirable but not mandatory. Salary support will be guaranteed for a minimum of five years.

Curriculum vitae should be forwarded to:

**Eli Y. Adashi, M.D.**  
Professor and Chair  
Department of Obstetrics and Gynecology  
University of Utah School of Medicine  
50 North Medical Drive, 2B200  
Salt Lake City, UT 84132

The University of Utah is an Equal Opportunity/Affirmative Action Employer, and encourages applications from women and minorities.

### ASSISTANT/ASSOCIATE PROFESSOR NEUROSCIENTIST

Applications are invited for two **TENURE-TRACK** positions in the Department of Cell and Neurobiology at the University of Southern California School of Medicine. Applicants should have a Ph.D. or M.D. degree with at least three years of postdoctoral experience. Academic rank is to be commensurate with qualifications and experience. The successful candidate will be expected to establish a vigorous, externally-funded research program in the area of vision or circadian rhythms and participate in medical school and graduate education in anatomy, cell biology, pharmacology, or neuroscience.

Applicants should send an introductory letter addressing their research focus and direction; names, addresses, and telephone numbers of three references; and copies of most significant recent publications by April 15, 1997 to:

**Dr. Cheryl M. Craft, Chair**  
Department of Cell and Neurobiology  
University of Southern California  
School of Medicine  
1333 San Pablo Street, BMT 401  
Los Angeles, CA 90033

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

### VISITING ASSISTANT PROFESSORS DEPARTMENT OF BIOLOGY INDIANA UNIVERSITY

We seek applications for one or more non-tenure-track visiting faculty positions of two years duration, beginning August 1997. Candidates whose performance during the two-year visiting appointment is excellent will be considered for appointment to a longer-term position at a different rank. Applicants should be able to teach courses in one or more of the following areas: evolution and organismal biology, cell biology, genetics, molecular biology, and microbiology. Ph.D. required. Send curriculum vitae and description of prior teaching experience and teaching interests, and arrange to have three letters of recommendation sent to: **Search Committee, Department of Biology, Indiana University, Bloomington, IN 47405.** To assure consideration, applications should be received by April 7. *Indiana University is an Equal Opportunity/Affirmative Action Employer.*

### CHIEF ZOOLOGIST

The Latin America and Caribbean Division of The Nature Conservancy seeks a **CHIEF ZOOLOGIST** to coordinate zoology activities related to conservation, provide training and technical assistance to partners in Latin America. Requirements include advanced degree in zoology (Ph.D. preferred), minimum three years of Latin American field experience, competency in database software and uses of GIS, fluency in English and Spanish. For a copy of full job description contact: **Claire Teixeira, Conservation Science & Stewardship, The Nature Conservancy, 1815 North Lynn Street, Arlington, VA 22209.** *Equal Opportunity Employer.*



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

ALSAC • Danny Thomas, Founder

## POSTDOCTORAL FELLOWSHIPS

**St. Jude Children's Research Hospital**, a premier research center for catastrophic diseases of childhood and biomedical research, offers the **George J. Mitchell Fellowship in Basic Science Research**. The fellowship was established by the American Lebanese Syrian Associated Charities/St. Jude Children's Research Hospital Boards of Governors and Directors in honor of Mr. Mitchell's contributions to the political life of the nation.

The fellowship is open to junior investigators with an M.S., Ph.D., D.V.M., or Pharm.D. degree who seek training experience in one of the specialty areas of laboratory biomedical research available which include: biochemistry, experimental oncology, experimental hematology, infectious diseases, genetics, cell and gene therapy, immunology, pharmaceutical sciences, molecular pharmacology, structural biology, tumor cell biology and virology/molecular biology.

Fellowship award is made for up to three years and is based on merit, recommendations and promise of a productive career in biomedical research. Stipends are highly competitive.

Applicants should provide a curriculum vitae, a brief description of their research interests and have three referees send letters of reference to:

**Christian C. Patrick, M.D., Ph.D.**

**Office of Academic Programs-Mitchell Fellowship**

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

**332 N. Lauderdale Street**

**Memphis, TN 38105-2794**

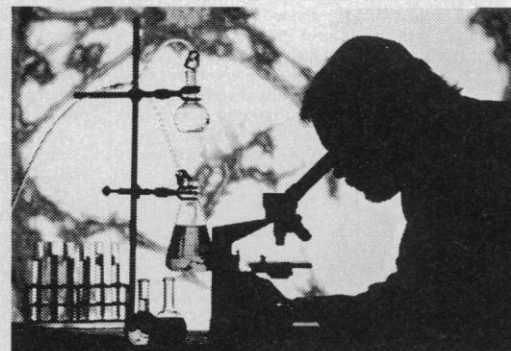
**USA**

*Please use source code: (MIT - CH) when applying. All information must be received by April 15, 1997. Award notification will be May 20, 1997 with a beginning date thereafter.*

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# Unparalleled Opportunities...

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with World-Class Capabilities*



## **Drug Discovery Research Positions**

### **Behavioral Pharmacology**

The Parke-Davis Pharmaceutical Research Division of the Warner Lambert Company, located in Ann Arbor, Michigan, adjacent to the North Campus of the University of Michigan, has position openings for behavioral pharmacologists in the preclinical section of Psychiatric Disorders Therapeutics. The successful candidates will join a team of biological researchers focused on identifying new psychotherapeutic drugs and discovering future biological targets for psychiatric illness, including psychotic, mood and anxiety disorders.

### **ASSISTANT SCIENTIST**

Applicants should have a B.S. degree in biology or psychology as well as 2-5 years of experience in behavioral pharmacology research. The successful candidate must be capable of conducting behavioral tests to assess the therapeutic potential and in vivo mechanism of action of drugs and assist in developing new disease relevant assays. Rodent dosing and testing experience is essential; primate dosing and testing experience is desirable. Candidates should have an understanding of the basic principles of psychopharmacology and neuroscience. **Reference Job Code KW97007**

### **ASSOCIATE SCIENTIST**

Applicants should have a B.S. or M.S. degree in biology or psychology as well as 5-10 years of experience in behavioral pharmacology research. The successful candidate must be capable of independently designing and conducting behavioral tests, including use of operant techniques, to assess the therapeutic potential and in vivo mechanism of action of drugs. The ability to design and develop new behavioral tests and to work with both rodents and primates is essential. Applicants must understand the basic principles of psychopharmacology and neuroscience and should have some record of relevant scientific presentations and publications. **Reference Job Code KW/TH**

## **POSTDOCTORAL FELLOW**

Applicants should have a Ph.D. degree in biology or psychology as well as strong background in psychopharmacology, neuroscience and behavioral pharmacology. The focus of this position will be basic research on new animal models for psychiatric disease. The ability to work independently to design and develop new behavioral tests is essential. Candidates should have relevant scientific presentations and publications. **Reference Job Code KW/THPD**

Parke-Davis colleagues enjoy competitive salaries, benefits and career growth potential. For consideration, please mail, fax or E-mail a resume (with references) to: **Parke-Davis Pharmaceutical Research, Human Resource Department, 2800 Plymouth Road, Ann Arbor, MI 48105. Fax: 313-998-3394. E-mail: resume@aa.wl.com** Be sure to reference Job Code of interest. Equal Opportunity Employer.



**PARKE-DAVIS**



## POSITIONS OPEN

### CHANNEL REGULATION FACULTY POSITIONS CASE WESTERN RESERVE UNIVERSITY SCHOOL OF MEDICINE

The School of Medicine at Case Western Reserve University invites applications for several positions at the level of **ASSISTANT** (tenure-track) or **ASSOCIATE PROFESSOR**. We seek candidates with a strong background and independent research program in membrane ion channel regulation who will augment the School's existing strengths in this area. We offer a highly competitive compensation package, state-of-the-art research facilities, as well as ample start-up funds provided by the Research Resources Program of the Howard Hughes Medical Institute. Candidates should submit a curriculum vitae, statement of research interests, three representative reprints, and the names and addresses of four references by April 30, 1997 to: Anne D. Dick, Program Administrator, School of Medicine Research Office, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4919.

Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.

**Faculty Position:** The Medical Biotechnology Center of the University of Maryland Biotechnology Institute (UMBI) invites applications for a **RESEARCH ASSISTANT PROFESSOR** (non-tenure-track) position in the Department of Molecular Biology and Biophysics. Candidate should have expertise in cell and molecular biology, with training in molecular cloning, biochemical purification, yeast two-hybrid and bacterial and eukaryotic expression systems, with particular emphasis on proteins involved in mammalian centromere structure and function and their relationship to the generation of autoimmunity. Initially, for three years, 75% salary support will be provided through existing grant funding. The applicant will be expected to generate 25% of his/her own salary during that period. Candidates should submit a curriculum vitae, bibliography, three letters of recommendation, a detailed statement of research interests, and selected publications by April 15, 1997 to: Dr. Joe Kao, Chairman of the Search Committee, UMBI, 725 West Lombard Street, Baltimore, MD 21201. UMBI is an Affirmative Action/Equal Opportunity Employer. Women, minorities, candidates with disabilities, and veterans are encouraged to apply.

**ASSOCIATE/ASSISTANT PROFESSOR**—The University of Texas Health Science Center at San Antonio, Department of Surgery, has four full-time academic openings for a Ph.D. with a research background in biochemistry, physiology, and immunology. Opportunities for medical student teaching and conducting research. Salary and academic rank commensurate with qualifications. Please direct all replies and send curriculum vitae to: William E. Strodel, M.D., Professor and Chairman, Department of Surgery, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7844. The University of Texas Health Science Center at San Antonio is an Equal Employment Opportunity/Affirmative Action Employer.

### MOLECULAR RETROVIROLOGY

**RESEARCH POSITION** is available to participate in ongoing research projects on simian immunodeficiency virus (SIV). Current projects focus on envelope and nef proteins of SIV to understand the basic mechanisms of immuno- and neuropathogenesis of AIDS. Highly motivated applicants having Ph.D. or B.S./M.S. degree with extensive experiences in virology, molecular biology, and/or immunology are encouraged to send a letter of interest, curriculum vitae, and three references to: Toshiaki Kodama, Ph.D., Division of Pathobiology and Immunology, Oregon Regional Primate Research Center, 505 N.W. 185th Avenue, Beaverton, OR 97006. Affirmative Action/Equal Employment Opportunity.

### LIKE PLAYING DETECTIVE?

NERAC Inc. helps America's leading high-tech and manufacturing companies explore state-of-the-art solutions for today's and tomorrow's innovations. Join our dynamic, progressive team in Connecticut. Qualified candidates possess: superb communications skills, customer-orientation, science or engineering degree, and experience. Comprehensive benefits package and competitive salary. Affirmative Action/Equal Opportunity Employer. Visit our Web page for details: <http://www.nerac.com>.

## POSITIONS OPEN

### RESEARCH SCIENTIST

VICAL Inc., a leader in the development of gene-based pharmaceutical products for human gene therapy, has an immediate opportunity for an individual to be responsible for the characterization of immune responses in experimental animals after administration of plasmid DNA encoding immunoregulatory proteins or tumor antigens.

Requires a Ph.D. in Immunology with at least three years of research experience in cellular immunology and first authorship on top quality cellular immunology papers. Must be able to perform standard types of ELISA, prepare MLCs and monolayer cell cultures, and be familiar with chromium release-based CTL assays, adoptive transfer of immune cells, fluorescence activated cell analysis, antibody purification, immunostaining and experimental use of mice. The ability to carry on independent research projects, conduct team-oriented research and supervise technician a must.

If you're looking for a company that can challenge you scientifically and provide excellent benefits, please send your résumé to: Human Resources, Code: SDU, VICAL Inc., 9373 Towne Centre Drive, Suite 100, San Diego, CA 92121. FAX: 619-646-1350. Equal Opportunity Employer.

### MOLECULAR ONCOLOGY OF HEAD AND NECK NEOPLASIA

The Divisions of Head and Neck Surgery and Oncology at the Massachusetts Eye and Ear Infirmary and the Massachusetts General Hospital seek qualified candidates for a full-time position as a research scientist in the area of molecular oncology of head and neck neoplasia.

The successful candidate should have a Ph.D. or M.D./Ph.D. and be willing to collaborate with other researchers and clinicians in an effort to integrate research and diagnostic and treatment protocols in the management of epithelial malignancies of the head and neck. Start-up laboratory space, equipment, and supplies will be available. An appointment at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level at the Harvard Medical School is anticipated.

Letters of interest and curriculum vitae should be directed to: Richard L. Fabian, M.D., Co-chairman, Search Committee, Director, Head and Neck Surgical Oncology, Massachusetts Eye and Ear Infirmary/Massachusetts General Hospital, 243 Charles Street, Boston, MA 02114. Qualified female and minority candidates are particularly encouraged to apply.

### GASTROENTEROLOGIST

The Division of Gastroenterology invites applications for a position as a **GASTROENTEROLOGIST** and independent investigator able to conduct high-level research in molecular oncology, including the application of molecular/genetic mechanisms to the therapy of pancreatic adenocarcinoma. Qualifications include an M.D. with internal medicine and subspecialty training in gastroenterology and a research training fellowship. The candidate should have evidence of productivity in research with publications in peer reviewed journals and current independent research funding. Responsibilities include independent basic research, development of translational research to complement active clinical programs in the Pancreas Clinic of the Division of Gastroenterology, and clinical participation in the Pancreas Clinic. Submit applications to: Dr. N. F. LaRusso, Chair, Division of Gastroenterology, Mayo Clinic, 200 First Street SW, Rochester, MN 55905. Mayo Foundation is an Affirmative Action/Equal Opportunity Employer and Educator.

### MOLECULAR BIOLOGY SCIENTIST POSITION

Corixa Corporation is a biotechnology company dedicated to the development of T cell vaccines and therapies for cancer and infectious diseases. Corixa is seeking **Ph.D. SCIENTISTS** with three to five years of experience to expand our gene expression group in Antigen Discovery. Candidates should have a background in heterologous gene expression. Emphasis is on demonstrated performance in non-coli expression methodologies including insect and mammalian systems. Experience in development and scale up expression methods is a plus. Competitive salary and benefits. Please send curriculum vitae, statement of research interests and experience, with names of three references to: Corixa Corporation, Attention: HR275, 1124 Columbia, Suite 464, Seattle, WA 98104. FAX: 206-667-5715. An Equal Opportunity Employer.

## POSITIONS OPEN

**RESEARCH INSTRUCTOR** position available immediately. This position requires participation in research on immunocontraceptive development at the cellular and molecular level. A Ph.D. in reproductive biology, at least three years of postdoctoral experience in immunology and molecular biology, and experience working with non-human primates are required. Appointment is contingent upon continued availability of funds. Send curriculum vitae and names of three references to: Dr. M. O'Rand, Department of Cell Biology & Anatomy, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599. An Equal Opportunity/Affirmative Action Employer.

### HEALTH RESEARCH ANALYST

ECRI, a nonprofit health research agency, seeks doctoral-level **SCIENTISTS** with life science or clinical epidemiology training and a voracious reading ability to evaluate clinical literature and critique new health technologies. Excellent analytical, statistical, and science-writing skills essential. Experience in meta-analysis helpful. Send or FAX résumé to: Department CT, ECRI, 5200 Butler Pike, Plymouth Meeting, PA 19462. Equal Opportunity Employer/Affirmative Action.

Pangene is commercializing novel gene recombination technologies for genomics, transgenics, and therapeutics. Positions open for Molecular and/or Cell Biologists (Ph.D. plus one to two years experience) to design recombination tools; Transgenicist with microinjection experience (no less than five years) and Lab Manager (B.S./M.S., one to two years and industry experience) with PCR, cloning, cell culture, and transfection skills. Send curriculum vitae with three references and salary history to: Pangene, 333 Ravenswood Avenue, Menlo Park, CA 94025, USA. FAX: 415-859-5655.

**POSTDOCTORAL RESEARCH ASSOCIATE** immediately available for Ph.D. or M.D. to study impact of bacterial pathogens on epithelial cell gene transcription and physiological function. Experience in molecular biology is essential. Position is supported by NIH grant for four years. Send curriculum vitae and names of three references to: Gail Hecht, M.D., Section of Digestive and Liver Diseases, University of Illinois at Chicago, 840 S. Wood Street, CSB (m/c 787), Chicago, IL 60612. Email: [gahocht@uic.edu](mailto:gahocht@uic.edu); FAX: 312-996-5103.

## NEUROSCIENCE



### UNIVERSITY OF CALIFORNIA, DAVIS COGNITIVE AND SYSTEMS NEUROSCIENCE

The Graduate Group in Neurosciences and the Graduate Program in Psychology offer research and training opportunities in Cognitive Neuroscience and Systems Neuroscience of Attention, Language, Memory, Sensory and Motor Processes, including those using Developmental and Evolutionary approaches.

Persons interested in more information should contact: Dr. Lynn C. Robertson, Program Chair, Group in Neurosciences; Email: [marva4lynn@ucdavis.edu](mailto:marva4lynn@ucdavis.edu) or Dr. George R. Mangun, Head, Cognition and Perception Section, Department of Psychology; Email: [grmangun@ucdavis.edu](mailto:grmangun@ucdavis.edu) or visit our web sites: <http://neuroscience.ucdavis.edu>; <http://psychology.ucdavis.edu>.

The University of California, is an Equal Opportunity Employer.

### DEPARTMENT OF NEUROSCIENCES UNIVERSITY OF CALIFORNIA, SAN DIEGO SCHOOL OF MEDICINE

The Department of Neurosciences at the University of California San Diego is seeking an academic pediatric neurologist with emphasis in research, teaching and clinical care. Board certification or eligibility is required. Appointment level and series will be determined by the individual's background and experience. Salary will be based on UC salary scales. All advertisements received by June 15, 1997 will be considered.

Please send a cover letter and curriculum vitae to: Doris A. Trauner, M.D., care of Peggy Chambers, University of California San Diego, School of Medicine, Department of Neurosciences, 9500 Gilman Drive, La Jolla, CA 92093-0624. The University of California is an Equal Opportunity/Affirmative Action Employer.



# **Behavioral Pharmacologist**

Two openings are available at the Ph.D. level to work in the department of Behavioral Pharmacology in Novo Nordisk's Health Care Discovery organisation in Maaloev, just outside Copenhagen, Denmark. The research in the department is focused on obesity and women's health care.

One opening is a permanent position where the candidate will primarily be working towards the discovery of drugs for the treatment of obesity. Therefore, a background in the pharmacology of food intake regulation and/or neuroendocrinology is an advantage.

The other position is a 3-year post-doc position focusing on learning and memory aspects of hormone-receptor ligand action. For both positions the qualifications below are relevant. In addition, for the permanent position the candidate must be a "self-starter", i.e., the candidate should be able to define his/her own research direction in a project-oriented environment.

## **Qualifications:**

- Previous documented expertise in behavioral pharmacology in animals.
- Goal and result-oriented.
- Good interpersonal skills; must be able to establish a network within the company.
- Must be effective in managing own and other peoples time in a creative and result-oriented manner.
- Must be effective at producing written documentation of results and ideas.
- Must be able to supervise and motivate laboratory technicians.
- Must be able to cope with and appreciate cultural differences and diversity.

## **In return the company offers:**

- The opportunity to work in a stimulating project-oriented environment where many scientific disciplines are integrated in the discovery of new drugs.
- Excellent facilities in new laboratories.
- Many opportunities for development of professional and personal skills.
- Competitive salary and benefit package.

For further information, please contact Senior Principal Research Scientist, Erik B. Nielsen, phone (+45) 4444 8888, ext. 34690; fax (+45) 4466 2980, e-mail: [ebn@novo.dk](mailto:ebn@novo.dk).

Written applications should be marked "Pharmacologist.7237" or "Post-doc.7058" and sent to the Personnel Department D&D, Krogshoejvej 55, DK-2880 Bagsvaerd, Denmark.

**Novo Nordisk**



*Novo Nordisk A/S is the world leader in insulin and diabetes care and also the world's largest producer of industrial enzymes. The company also manufactures and markets a variety of other pharmaceutical and bioindustrial products. Headquartered in Denmark, Novo Nordisk employs more than 13,200 people in 53 countries and markets its products in 130 countries. More information can be obtained from our homepage: <http://www.novo.dk>*

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Denmark



## The Science of Agricultural Genetics

### POST-DOCTORAL ASSOCIATE

#### Gene Targeting (Job #ET-707)

We are seeking a motivated individual to work on novel gene targeting approaches in plants. Goals of the group include improving frequency and fidelity of delivery of genes or other nucleic acid sequences to specific genomic regions to facilitate manipulation of the corn genome. Efforts will focus on adapting or developing innovative procedures based on homologous recombination and site-specific integration approaches used in various biological systems. EDUCATION/EXPERIENCE: A Ph.D. or equivalent in recombination and/or molecular biology or related field, and a willingness to work as part of a team of researchers. Direct experience and good knowledge in the area of DNA recombination and repair mechanisms is desirable. Good communication/ interaction skills are important, including the ability to write-up results for presentation or publication in a timely manner. Initial appointment is for two years with a third year optional upon approval. Position is available immediately.

### RESEARCH ASSOCIATE

#### Analytical Biochemistry - Corn Molecular Marker Technologies (Job #AB-710)

An individual is needed to develop DNA markers for use in corn genetics projects. The primary responsibilities of this position will include cloning, sequencing, and participating in preliminary evaluation of markers. Efforts to streamline the process and to develop alternative approaches will be encouraged. This individual will interact with a wide variety of molecular biologists, geneticists, statisticians, and breeders and thus, must be able to communicate effectively with a diverse group of scientists. The successful candidate will possess a solid background in molecular biology and genetics, including experience with PCR, cloning, and genetic marker systems. A M.S. degree in molecular biology, genetics, biology, or other related discipline, or a B.S. degree with 2 additional years of relevant experience are required.

Pioneer Hi-Bred International, Inc. offers an opportunity to interact among hundreds of scientists with diverse backgrounds. We offer competitive salaries and excellent, comprehensive benefits. Des Moines is a prospering heartland city that ranks well above the national averages in affordability and education. Our location provides a mix of beautiful open spaces and city life advantages. For confidential consideration send 3 copies of your cover letter and current resume, indicating job number, by April 1, 1997 to: Pioneer Hi-Bred International, Inc., Attn: PERSONNEL (Job #ET-707 or #AB-710), P.O. Box 1004, Johnston, IA 50131-1004.

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



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

## Mosaic Technologies

Mosaic Technologies is a pioneering DNA chemistry company in Boston, Massachusetts. The company is developing clinical diagnostic and research products based on proprietary solid phase Bridge™ DNA chemistry. The company offers above average compensation to qualified personnel and is currently seeking scientists with skills and experience in the following areas:

### Senior Chemists, Nucleic Acid and Polymer Chemistry

These positions require a Ph.D. or M.S. in chemistry or biochemistry. The successful applicants will have experience in one or more of the following areas: polymer chemistry, nucleic acid synthesis and modification, and surface chemistry. The scientists will implement a proprietary DNA immobilization chemistry for use in Bridge™ amplification assays.

### Senior Scientist, Molecular Biology

This position requires a Ph.D. or M.S. with several years of experience in molecular biology, with an emphasis on PCR and DNA/RNA hybridization assays. The scientist will be involved in the development of DNA amplification assays.

### Technical Assistants

These positions require a B.A./B.S. degree with experience in molecular biology, and an emphasis on PCR and DNA/RNA hybridization assays.

Please submit resume to **Personnel Dept., Mosaic Technologies, Inc., 1106 Commonwealth Ave, Boston, MA 02215.** Mosaic is an equal opportunity employer.



### Massachusetts General Hospital/ Harvard Medical School Cutaneous Biology Research Center Transgenic Core Technologist

The Cutaneous Biology Research Center of Massachusetts General Hospital is seeking a technologist for its transgenic core facility. The Center, which forms part of the Department of Dermatology, is located on the 3rd floor of the Lawrence E. Martin Laboratories of MGH and is affiliated with Harvard Medical School. We are currently looking for an individual to perform services such as pronuclear injection of DNA, generation of chimeric mice by injection of ES cells into blastocysts and embryo cryopreservation. Requirements include a proven track record in the techniques involved and the ability to work independently. Candidates with advanced degrees preferred but not required. Qualified women and minorities are encouraged to apply. The Center offers a highly competitive salary commensurate with experience, excellent benefits and a stimulating intellectual environment.

Please send resume and names of three references to **Katia Georgopoulos, CBRC, MGH East, Building 149 13th Street, Charlestown, MA 02129; fax (617) 726-4453.**

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

## Rashkind Chair in Cardiology

The Division of Cardiology, Department of Pediatrics, University of Pennsylvania School of Medicine (U of P), and The Joseph Stokes, Jr. Research Institute, are seeking a senior investigator (M.D. or Ph.D.) with a distinguished record of research in cardiovascular development to hold The Rashkind Chair in Cardiology at The Children's Hospital of Philadelphia (CHOP). It is anticipated that the successful applicant will become a tenure Professor or Associate Professor of Pediatrics at the U of P, will hold a secondary appointment in one of the U of P basic science departments, and will become a member of one or more U of P graduate groups. A very substantial start-up package and long-term research support will be provided, and the Rashkind Chair will be given ample space in the recently opened CHOP Abramson Research Building, immediately adjacent to the research facilities of the U of P.

Applicants should send a CV, a list of 3 suggested referees, and a 1 page statement of research goals to: **Drs. Clayton Buck and David Pleasure, co-chairs, Rashkind Search Committee, c/o Phyllis Quail, Abramson Research Building, The Children's Hospital of Philadelphia, Civic Center Boulevard, Philadelphia, PA 19104-4318.** The University of Pennsylvania is an equal opportunity affirmative action employer. Women, minority candidates, and persons with disabilities are encouraged to apply.

## TWO BIOTECHNOLOGY FACULTY POSITIONS BIOTECHNOLOGY CENTER VA TECH

We are seeking two productive and innovative scientists at the **Associate Professor** or advanced Assistant Professor level. The ideal candidates will have strong research programs, and a willingness to participate in cooperative research, teaching, and outreach programs. One position will be in plant biotechnology. We are particularly interested in plant transgenics as it impacts human or animal health or nutrition. Examples of relevant expertise include **transgene expression systems, protein and glycoprotein processing**, and plant cell biology. The second position will be in any complementary discipline in biotechnology. Persons with several years of **industrial or academic** experience are encouraged to apply.

You will have offices and laboratories in the new Fralin Biotechnology Center with access to its high-containment plant growth facilities, plant transformation equipment, microbial fermentation, and downstream chromatographic processing. You will join six faculty from various disciplines. Some of these faculty are entrepreneurs and interaction with industry is highly encouraged. Your faculty appointment can be in any of several colleges and departments. Please examine our web page for details on these positions and photos of our exceptional facility.

Qualified applicants should submit a complete curriculum vitae, summary of research interests, and names and addresses of three references by June 1, 1997 to: **Don Ball, Fralin Center for Biotechnology, Virginia Tech, Blacksburg, VA 24061-0346**, phone: 540-231-6933, fax: 540-231-7126, email: biotech@vt.edu, center homepage: <http://www.biotech.vt.edu>. Virginia Tech is an **equal opportunity employer**.

## DEAN COLLEGE OF VETERINARY MEDICINE TEXAS A&M UNIVERSITY

Texas A&M University invites applications and nominations for the position of Dean of the College of Veterinary Medicine. The Dean serves as principal academic leader and chief executive officer of the College and reports to the Executive Vice President and Provost. An earned Doctorate of Veterinary Medicine, distinguished scholarly credentials, a record of exemplary professional service, and a significant university administrative experience in a field of study represented by the College of Veterinary Medicine are essential. The successful candidate should have a thorough familiarity with the philosophy and responsibilities of a large teaching, research, and service-oriented, land grant institution. The Dean should have a breadth of understanding and the creative imagination necessary to provide leadership, development and policy formulation for the multiple mission of a comprehensive College of Veterinary Medicine with major initiatives at the state, national and international levels.

The College consists of five departments, a teaching hospital, approximately 150 faculty members and 128 professional students per graduating class. In addition, a baccalaureate degree is offered in Biomedical Science (2,000 students currently enrolled) and there are 180 graduate students working for MS and Ph.D. degrees. In FY 96, funded research was \$13 Million.

Texas A&M University is a designated land, sea and space grant university and is a world leader in teaching, research and service. Texas A&M consists of ten academic colleges with an enrollment of 43,000 students, making it the third largest in the nation.

Nominations and applications will be accepted until the position is filled. Candidate screening will begin in March 1997. Applicants should submit a letter of application, complete curriculum vita, and names, addresses, and phone numbers of at least three references. Nominations, applications and inquiries should be directed to: **A. Benton Cocanougher, Chair, College of Veterinary Medicine Dean's Search, Texas A&M University, 413 Wehner Building, College Station, Texas 77843-4113, (409)845-4712, (409)845-6639 (Fax), VET-MED@cgsb.tamu.edu**

*Texas A&M University is an affirmative action, equal opportunity employer committed to diversity. Please be advised that under Texas Law (Public Information Act) names and other information concerning applicants or nominees are subject to disclosure upon request.*

## Join the USA QIAGEN team...

Take advantage of expanding business opportunities in the molecular biology research markets! QIAGEN, the world wide leader in nucleic acid purification, is seeking highly motivated and talented individuals to join our team. QIAGEN is committed to providing high quality, innovative purification products to the molecular biology and molecular diagnostic research communities.

**Product Manager—PCR.** Responsibilities include marketing conceptualizing, coordinating product launches, contacting customers, and supporting the sales team. Knowledge of PCR required products, prior PCR product marketing/sales experience and outstanding communication skills are required. Thirty per cent travel is typical. MS/BS degree and two years of lab experience in Molecular Biology or related fields. (Reference PM-0397)

**Product Managers/Associate Product Manager—Molecular Biology.** Responsibilities include assisting in marketing conceptualizing, coordinating product launches, contacting customers, and supporting the sales team. Knowledge of a wide variety of molecular biology techniques and/or two years of sales or marketing experience is required. Outstanding communication skills are also required. Thirty per cent travel is typical. Applicants should have an MS/BS degree in a molecular biology-related field. (Reference PM/MB-0397)

**Product Manager—Genomic Line.** Responsibilities include assisting in marketing conceptualizing, coordinating product launches, contacting customers, and supporting the sales team. Knowledge of a wide variety of molecular biology techniques and/or two years of sales or marketing experience is required. Outstanding communications skills are also required. Thirty per cent travel is typical. Applicants should have an MS/BS degree in a molecular biology-related field. (Reference APM/GL-0397)

**Technical Support Specialists.** Responsibilities include providing technical support for QIAGEN products, technical training for customers and staff, and writing and editing technical literature. PhD/MS/BS degree and at least two years of lab experience required. Broad molecular biology experience and outstanding written and verbal communications skills are essential. Experience in transfection or protein expression, purification is desirable. (Reference TSS-0397)

**Field Applications Specialist.** Responsibilities include performing BioRobot 9600 demonstrations; providing technical and applications support; training customers; showing the BioRobot at scientific meetings; making presentations; and writing technical notes. BA/S degree in molecular biology, biochemistry or related field with a minimum of 4 years molecular biology lab experience required. (Advance degree preferred.) Knowledge of instrumentation, automated DNA sequencing and DNA purification and computer skills important. Sales and/or service experience beneficial. Must be willing to travel. (Reference TSC-0397)

**Technical Sales Consultant.** Responsibilities include performing selling and supporting QIAGEN consumable products to customers within a geographical area. BS degree in molecular biology or related field required with two years of lab experience preferred. Prior sales experience is beneficial. Some travel is required in certain territories. (Reference TSC-0397)

Please send résumé to: **Human Resources, (Reference #), QIAGEN Inc., 28159 Avenue Stanford, Santa Clarita, CA 91355 or Fax to: (805) 295-7653.**





**MEGABIOS CORP.** develops gene-based therapeutics in collaboration with pharmaceutical and biotechnology companies utilizing its proprietary gene delivery technology and extensive preclinical expertise. Our continued growth has created several employment opportunities for qualified candidates. Megabios offers a highly competitive compensation and benefits package, and values the contributions of our diverse workforce.

#### Scientist, Pulmonary

This individual will direct an effort to design, coordinate and validate preclinical pulmonary-focused development programs utilizing gene therapy technology and Megabios' proprietary non-viral gene delivery systems. The emphasis will be to coordinate and expand ongoing pulmonary programs, develop a strategy and new programs in the therapeutic utility of gene delivery in pulmonary disease, and assess the efficacy and utility of gene therapy specifically in areas of pulmonary inflammation, asthma and allergy. A background in respiratory disease models and pharmacology of the lung is preferable. The successful candidate will have a Ph.D. in biochemistry, biology, pharmacology or other relevant discipline. 7 or more years in research or preclinical product development in the biotechnology or pharmaceutical industry with an interest in utilizing gene therapy as a means to manipulate responses in pulmonary disease is preferred.

#### Scientist, Immunology

This individual will direct an effort to design, coordinate and validate preclinical immunology-focused development programs utilizing gene therapy technology and Megabios' proprietary non-viral gene delivery systems. The emphasis will be to coordinate and expand ongoing vaccine and therapeutic programs, develop new programs in the immunological therapeutic utility of gene delivery and gene therapy in cancer and infectious diseases, and assess the efficacy and utility of gene therapeutics in autoimmune disease. The successful candidate will have a Ph.D. in immunology, medical microbiology or other relevant discipline. 5 or more years research or preclinical product development in the biotechnology or pharmaceutical industry preferred, with an interest of utilizing gene therapy to manipulate immune responses.

#### Scientist, Fermentation

This individual will be responsible for developing novel fermentation processes and optimizing the fermentation process for high quality and high yields of plasmid DNA. This individual will also be responsible for developing novel plasmid host strains using microbial genetic techniques. Other responsibilities include maintenance of plasmids and cell culture collections assisting in the preparation of Master Cell Working Banks, control of DNA inventory, and performing in-process QC assays on the bacterial cultures and plasmids. The successful candidate will have an MS in Biochemistry, Microbiology or related field with 5 or more years cGMP Pharmaceutical industrial experience. Experience with computer controlled bioreactors and direct experience in running B. Braun Biotech Biostat ED bioreactors would be an asset. Knowledge of large scale DNA manufacturing and experience in cell harvesting and downstream processing is essential.

#### Scientist, Pharmaceuticals

This individual will be responsible for the formulation development of DNA or peptides for gene delivery. This individual must have experience in the development of formulations suited for pulmonary delivery. A background in developing delivery systems for biotechnology products that are colloidal or liposomal based, would be ideal. The successful individual will possess a Ph.D. in Pharmaceutical Sciences, Physical Chemistry or Biophysics.

#### Research Assistant, Life Sciences

This individual will be responsible for working with senior investigators to develop and implement animal models. Administration of test compounds to laboratory animals, blood/tissue collection, necropsy, and data collection. The successful individual will possess a BS with 3-5 years experience in the pharmaceutical or biotechnology environment. Experience with handling rodents and rabbits is required.

Qualified candidates are strongly encouraged to forward their C.V.'s to:

Megabios Corp., Human Resources Department, 863-A Mitten Road, Burlingame, CA 94010; fax (415) 652-1990;

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



MEGABIOS

#### ASSOCIATE DEAN FOR RESEARCH College of Veterinary Medicine (CVM)

#### and ASSISTANT DIRECTOR OF THE AGRICULTURAL EXPERIMENT STATION

#### College of Agricultural, Consumer and Environmental Sciences (ACES)

#### University of Illinois at Urbana-Champaign

We are seeking an outstanding scientist to provide leadership for research and graduate programs. A doctorate in veterinary medicine or related field is required. Candidates holding a Ph.D. and a D.V.M. or equivalent professional degree are especially invited to apply. Qualifications include a distinguished record of scholarship and research as indicated by success in obtaining extramural funding and publication. Strong administrative and interpersonal communication skills, and a commitment to interdisciplinary and interinstitutional cooperation are essential. The Associate Dean serves as the administrative coordinator for research activities within the CVM, as the Assistant Director of the Agricultural Experiment Station within the College of ACES, and as Acting Dean when required. Although the appointment requires a primary commitment to administration, the incumbent is expected to continue scholarly activities. Salary is negotiable. Starting date would be on or about January 5, 1998.

Applicants should submit their CV and the names and addresses of three references to **Chairperson, Search Committee, 3505 VMSB, College of Veterinary Medicine, University of Illinois, 2001 S. Lincoln, Urbana, IL 61802; 217/33302760**. To ensure full consideration, applications must be received by April 30, 1997. *The University of Illinois is an Affirmative Action, Equal Opportunity Employer.*

#### SYMPOSIUM

#### Announcing the symposium TARGETING NUCLEIC ACIDS

June 1 - 3, 1997

Rutgers University

Piscataway, NJ 08855, USA

**Speakers:** E. Arnold, J. Burstyn, J. Chin, S. Darst, T. Ellenberger, J. Feigon, M. Gartenberg, M. Georgiadis, S. Lippard, L.J. Maher, G. Montelione, S. Price, B. Ramsey-Shaw, L. Regan, A. Stock, G. Varani.

**Call for Posters:** Abstract Submission  
Deadline: April 15, 1997.

**Registration:** Registration fee is \$325 (including housing and meals).

**Application:** Early registration is advised, since space is limited to 150 participants. Application deadline: April 15, 1997. Proceedings to be published in *Biophysical Chemistry*.

For additional information and an application please contact **Ms. Sarah Kozak, Rutgers University, Box 939, Piscataway, NJ 08855-0939 USA. Telephone: (908) 445-6376, Fax: (908) 445-5958, Email: [molbiophys@rutchem.rutgers.edu](mailto:molbiophys@rutchem.rutgers.edu)**

#### GLOBAL CAREER OPPORTUNITIES



DÉCANAT DE LA FACULTÉ DES SCIENCES  
DEKANAT DER MATHEMATISCH-NATURWISSENSCHAFTLICHEN FAKULTÄT

The Faculty of Sciences of the University  
of Fribourg/Switzerland

invites applications for the position of a  
**Full professor in experimental physics**

at the Institute of Physics,  
opening October 1, 1998 or at best convenience. The successful applicant is expected to build up a competitive experimental research group in one of the following fields:  
**Physics in living or in soft condensed matter, or physics of complex systems.** He/she will also have to teach in French or German and be prepared to assume administrative duties. He/she should be willing to become fluent in both languages.

Letters of application including a curriculum vitae, a list of publications, a short outline of the current and planned research, as well as the names of three referees, should be sent by **June 15, 1997 to the Dean of the Faculty of Sciences** (phone: +41 26 300 8450; fax: +41 26 300 9729), **University of Fribourg, Pérolles, CH-1700 Fribourg, Switzerland.** For additional information, please contact Prof. L. Schaller, Director of the Institute of Physics (phone: +41 26 300 9071/9060; fax: +41 26 300 9747; Email: [Lukas.Schaller@unifr.ch](mailto:Lukas.Schaller@unifr.ch)).

# REQUEST FOR LETTERS OF INTEREST FOR MULTILATERAL INITIATIVE ON MALARIA IN AFRICA

In response to a meeting on Malaria in Africa, held in Dakar, Senegal on January 6-9, 1997, the following agencies, which support malaria research, are soliciting letters of interest for proposals that seek to enhance the capacity to conduct collaborative/multicenter research relevant to malaria in Africa: Commission of the European Communities; Institut National de la Sante et de la Recherche Medicale; Institut Pasteur; Medical Research Council of the United Kingdom; Ministry of Cooperation, France; National Institutes of Health (USA); Netherlands Organization for Scientific Research; The Wellcome Trust; World Health Organization.

Although no funding commitments have been made at this time, and this notice does not necessarily mean that funding will be available for these projects from the agencies identified above, these letters will be considered at a follow-up meeting of agency representatives at which future plans for coordinated support will be developed. For more information on this initiative in English or French, see the NIAID homepage <http://www.niaid.nih.gov>.

The letters of interest, no more than three pages in length, must contain the following information:

1. The area of collaborative malaria research with Africa to be undertaken, and a description of how this research will benefit from a multicenter collaborative approach;
2. A brief summary of current efforts and a description of the kinds of activities proposed. New and innovative collaborative research approaches are encouraged;
3. An estimated cost for the proposed activity, with justification, and;
4. The names of proposed collaborators, including mailing addresses. Please include E-mail and FAX numbers.
5. Proposed activities may include:
  - The organization of workshops to exchange information and to develop and implement common methodologies and protocols, including the use of common reagents and databases;
  - The establishment of repositories of clinical and field samples of parasite, vector and human material;
  - The establishment of common facilities to analyze data and samples from multiple sites;
  - Comparative studies using remote sensing and geographic information systems (GIS) in different situations, and;
  - The exchange of scientists.

Existing networks of collaborating centers are especially invited to submit letters of interest. Letters of interest should be received by no later than **April 27, 1997** and be sent by regular mail, FAX or E-mail to the following addresses:

**The letters may be written in French or in English.**

**Multilateral Initiative on Malaria**  
c/o Division of Microbiology and Infectious  
Diseases  
**NATIONAL INSTITUTE OF ALLERGY AND  
INFECTIOUS DISEASES**  
National Institutes of Health  
Solar Building Room 3A18  
Bethesda, Maryland, USA 20892-7630  
FAX: 301-480-4528  
E-Mail: [malaria@nih.gov](mailto:malaria@nih.gov)

**Multilateral Initiative on Malaria**  
c/o Commission of European Communities  
**SCIENTIFIC AND TECHNICAL  
COOPERATION WITH DEVELOPING  
COUNTRIES**  
Directorate General XII - B-4  
Sector Health  
Rue de la Loi 200  
B-1049 Bruxelles  
Belgium  
FAX: 32-2-296-6252  
E-Mail: [paludisme@dg12.cec.be](mailto:paludisme@dg12.cec.be)

## Research Scientists, Ph.D. Bone Metabolism & Osteoporosis



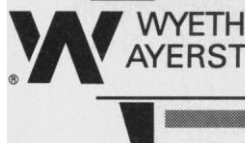
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LEADERSHIP IN  
HEALTHCARE

This is your opportunity to join Wyeth-Ayerst Research, a major division of Fortune 100 American Home Products Corporation, in the Bone Metabolism and Osteoporosis Research Division in Women's Health Care at our Radnor, Pennsylvania pharmaceutical research facility. The selected candidate will join ongoing efforts directed toward the characterization of mechanisms involved in osteogenesis, and will develop research strategies utilizing extensive available core biotechnology and genomic support to identify novel targets for drug discovery.

The ideal candidate will have a Ph.D. with a minimum of 4 years postdoctoral experience, an established record of scientific achievement in bone biology and a proven ability to initiate and direct independent research. A strong background in the cellular and molecular biology of the osteoblast, and a specific interest in the processes governing bone formation are required.

Wyeth-Ayerst offers an excellent compensation and benefits package in a highly professional environment. Please send your resume with salary requirements to: **Wyeth-Ayerst Research, Human Resources Dept., Position #OPSCI-1733, P.O. Box 7886, Philadelphia, PA 19101-7886**, or fax your resume (in fine mode if possible) directly into our centralized Research resume database at (610) 989-4854. e-mail:

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



## East Stroudsburg University

### BIOLOGICAL SCIENCES DEPARTMENT

**Wildlife Ecologist - Assistant Professor level**, full-time continuing position beginning fall semester 1997. Responsibilities include teaching courses in Wildlife Biology and Field Zoology, and assisting in directing the Environmental Studies program. Experience in environmental renewal or wetland ecology is preferred. Additional responsibilities may include teaching courses in Environmental Biology, Human Ecology, General Ecology, Anatomy and Physiology, and Introductory Biology.

**Herpetologist - Assistant Professor level**, full-time continuing position beginning fall semester 1997. Responsibilities include teaching courses in Vertebrate Anatomy, Human Anatomy and Physiology, Introductory Biology, and field course in a specialty area. Additional responsibilities may include teaching Animal Physiology and directing the Pre-Med Program.

Ph.D. or appropriate terminal degree required. Applicants should have a strong commitment to teaching undergraduates. Previous teaching experience preferred. Final determination will be based upon successful interview which may include teaching demonstration performance. Submit letter of application specifying which position(s) applied for, curriculum vita and three letters of reference by April 11, 1997 to: **Dr. David G. Trainer, Biological Sciences Department, East Stroudsburg University, East Stroudsburg, PA 18301.**

ESU is an equal opportunity employer.  
Minorities and women are strongly encouraged to apply.  
A Pennsylvania State System of Higher Education University

## Chemist/Engineer/Meteorologist/Microbiologist/ Physical Scientist/Physicist

Applications are invited for 25 Scientist and Engineer positions for the U.S. Army Dugway Proving Ground, Utah. This is an opportunity to join a team of professionals involved with unique challenges in the fields of biological and chemical defense testing and analysis to include technical transfer worldwide, and evaluation of state-of-the-art technology. The successful applicants will have a master or doctoral degree in the appropriate specialties. Applications will be accepted in late January through March. There are six Chemist vacancies in the specialties of compliance; Quality Control/Gas Chromatography; Mass Spectroscopy; Nuclear Magnetic Resonance and Fourier Transform Infrared Analysis. There are three Engineer vacancies in the specialties of Electronics, Mechanical, and Quality/Reliability. There are two Meteorologist positions, one concerned with forecasting and the other with modeling and assessment. There are 10 Microbiologist vacancies in the following specializations: aerobiology; immunochemistry; virology; biotechnology; molecular genetics for isolation and expression of enzymes and monoclonal genetics for isolation and expression of enzymes and monoclonal antibodies; and bacteriology. There are two Physical Scientist positions: one is concerned with physics, electro-optics, and particle transport and diffusion of smoke/obscurant materials; the other with chemistry, physics, liquid droplet behavior, transport and diffusion of agent clouds, and downwind hazard estimating procedures and requires an extensive knowledge of operational scenarios, agent/material, and pick-up relationships to evaluate the vulnerability and/or protection afforded troops. And finally, there are two Physicist vacancies. One physicist will be involved in designing and conducting field and/or laboratory studies of the physical and electro-optical characteristics of aerosol and vapor clouds. The other physicist will be involved in designing instrumentation and test facilities for lab and field testing of optical devices to monitor vapors, droplets or particles. This knowledge will be used to extend existing theories and formulate new concepts and test methodologies for smoke/obscurant tests and for field detection of chemical and biological agents and simulants. Complete text of announcement and how to apply will be available on opening dates on <http://www.usajobs.opm.gov>, or by calling (801) 831-2181 Monday thru Thursday, 7:00 a.m. to 5:30 p.m. MST. *U.S. citizenship is required.* Incumbents will be entitled to health and life insurance. Salary range is \$31,000 thru \$69,492 per annum. *An Equal Opportunity/Affirmative Action Employer.*



## VICE PRESIDENT FOR RESEARCH

Respiratory Research Institute Albuquerque, New Mexico

Lovelace Respiratory Research Institute, a private, not-for-profit biomedical research organization, seeks a senior scientist (MD, PhD or DVM) as Vice President for Research to lead and direct 50 scientists. The Vice President will report directly to the President/CEO. The Vice President for Research will take charge of all aspects of an evolving research program, guiding the Institute as it moves from a multidisciplinary, heterogeneous organization to one focused on basic science and dedicated to the prevention, treatment and cure of respiratory disease.

We seek a funded, nationally successful laboratory scientist with demonstrated ability to manage a large research program in which all segments work together to meet common goals within a unified mission. The person selected will be responsible for hiring scientists and exploring new research directions. Other significant duties will include involvement in philanthropy, public affairs and the political process. The successful candidate will have the opportunity to maintain an active research program.

This position is equal to an endowed chair and includes appointment to the faculty of the University of New Mexico Medical School. Lovelace Respiratory Research Institute is an Equal Opportunity Employer. Please send a letter of interest and CV to Matthew J. Kluger, PhD, Lovelace Respiratory Research Institute, 2425 Ridgecrest Dr SE, Albuquerque, NM 87108. Include in your letter the following items: Your strengths in the area of respiratory disease research; An overview of your extramural research funding; Information that demonstrates your leadership skills and commitment to the development of younger scientists; and Your vision for the future of respiratory disease research.

For additional information phone Dr. Kluger at 505 262-7531.



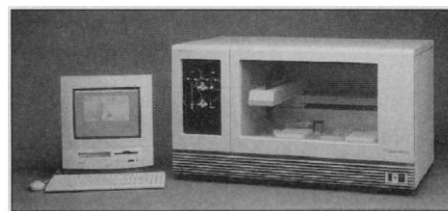
SuperSignal NA delivers low background while providing an intense signal for more than 24 hours, ample time for multiple publication-quality exposures. All reactant components are stable at room temperature for at least 6 months; working solution stability is 24 hours. **Pierce Chemical.** For information call 815-968-0747 or circle 145 on the reader service card.

### Gel Permeation Chromatography Columns

A new line of gel permeation chromatography columns features a tolerance of different solvents with minimal swelling, making them compatible with a wide range of solvent polarities. This feature is due to the columns' high-purity polystyrene/divinylbenzene packing. The columns are compatible with the solvents THF, benzene, toluene, *n*-hexane, decahydronaphthalene (Decalin), chloroform, dichloromethane, carbon tetrachloride, DMF, DMAA, DMSO, *n*-methylpyrrolidine, HFIP, tetrafluoroethylene, quinoline, pyridine, 1,4-dioxane, MEK, acetone, ethanol, *o*-dichlorobenzene, 1-chloronaphthalene, and trichlorobenzene. **TosoHaas.** For information call 800-366-4875 or circle 146 on the reader service card.

### Plant DNA Extraction Kit

The PhytoPure DNA extraction system, designed for the plant molecular biologist, makes use of a proprietary silica matrix incorporating borate groups to extract DNA free of the polysaccharide contamination encountered with other techniques. The protocol takes less than 45 minutes, does not use phenol, and provides DNA suitable for restriction fragment length polymorphism and other analysis. **Vector Laboratories.** For information call 415-697-3600 or circle 147 on the reader service card.




ning unattended overnight. **Perkin-Elmer.** For information call 800-345-5224 or circle 148 on the reader service card.

### Literature

*Peptide and Protein Immunology from Advanced ChemTech* highlights a line of services including peptide antigen synthesis and preparation, peptide and protein immunochemistry and immunosassay development, and antibody production and purification. **Advanced ChemTech.** For information call 502-962-5316 or circle 149 on the reader service card.

*Topix* is a new quarterly publication highlighting new tools for research in the fields of apoptosis, neuroscience, signal transduction, cancer, nitric oxide, cell biology, vascular biology, and more. **Alexis.** For information call 619-658-0065 or circle 150 on the reader service card.

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## Charles River

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# ISCAN®

## EYE MOVEMENT MONITORING SYSTEMS



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acquisition capability. Images can be enhanced, zoomed, annotated, and saved in various file formats for exporting, networking, or archiving. A thermal printer provides low-cost prints in a variety of image sizes. **UVP.** For information call 800-452-6788 or circle 141 on the reader service card.

## Colony Counter

This colony counter system is half the size and half the cost of others on the market but provides all the features required for counting bacteriological colonies and plaques. The system includes a pen-style counter, magnifier, light box, and grid. The system fits in a drawer when not in use. **Bel-Art Products.** For information call 201-694-0500 or circle 142 on the reader service card.

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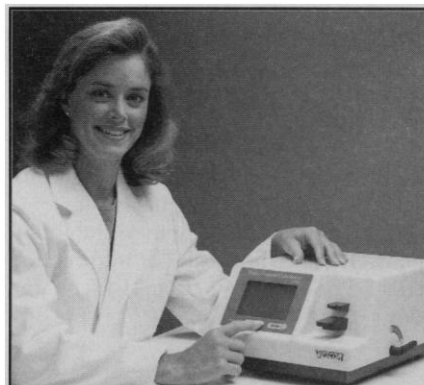
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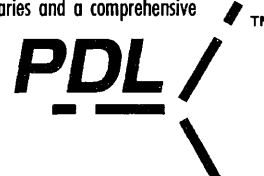
We seek a proven team player to design experimental protocols and select methods and techniques to perform pharmacological, pharmacokinetic, and safety experiments that support preclinical development of monoclonal anti-cell adhesion antibodies. You will set up in-house and contract animal models of acute and chronic inflammation; design protocols, develop assays and techniques, and conduct experiments that support therapeutic efficacy, safety and mechanism of action studies; and conduct pharmacokinetic studies in order to establish optimum and safe dosage forms. Ability to investigate, create, and develop new methods and technologies for project advancement is required, as is ability to perform analysis of data. The successful candidate will have a Ph.D. in Life Sciences along with a proven background in pharmacology, immunology and cell biology with experience in vivo and in vitro pharmacology. 2-8 years' postdoctoral experience in industry and/or academics is a must. In addition to experience with pharmacokinetic and safety evaluation of biologics, you must possess experience with immunochemistry (ELISA, FACS), immunohistochemistry, histopathology, cell biology assay development and implementation. Experience in small animal surgery and physiologic monitoring; mammalian tissue culture cell lines; enzymatic assays, tissue and cell separation; and protein and lipid purification would be a plus. Ref: 305.

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We offer a competitive salary and benefits program. Please forward your resume to: **Children's National Medical Center, Human Resources, 111 Michigan Ave., NW, Washington, DC 20010. DRUG TESTING/BACKGROUND INVESTIGATION CONDUCTED.** EOE M/F/D/V.



### Laboratory

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Qualifications and experience must include an M.S. (or higher) degree in a natural science, or the equivalent career experience; 5-8 years' experience in laboratory management, supervision and supporting staff research; demonstrated skills in planning/allocating limited resources; familiarity with developing/managing financial plans; and proficiency with word processing, databases, spreadsheets and e-mail. Experience in conducting polar research is desirable.

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

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## POSITIONS OPEN

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**BIOMEDICAL IMAGING APPLICATIONS SPECIALISTS.** Required for scientific support, including customer liaison, installation, and training for systems in customer laboratories. Experience of optical probe applications, digital imaging for fluorescence microscopy and/or application of CCD cameras imaging in the life sciences is essential; competence in computing and image processing is helpful.

Send curriculum vitae in first instance to: Sally Briers, Life Science Resources, Abberley House, Granham's Road, Great Shelford, Cambridge CB2 5LQ, UK. Telephone: +44(0)1223 845836; USA FREE-PHONE: 1-800-747-9530; FAX: +44(0)1223 840342; Email: sally@lsr.co.uk; Web: <http://www.lsr.co.uk>.

### LANDSCAPE ECOLOGIST

Applications are invited for a permanent GS-12/13 position with the United States Forest Service Pacific Southwest (PSW) Research Station, Montane Ecosystems of the Sierra Nevada program, Forestry Sciences Laboratory in Fresno, California. The successful candidate will be expected to conduct research on ecological processes at the landscape level such as disturbance dynamics, wildlife habitat and dispersal, and succession processes. Although the candidate should have a background with some modeling experience, research in applied issues in forestry, hydrology, furbercare, herpetology, or other wildlife is desired. The applicant should be familiar with GIS and spatial statistical analysis. The vacancy announcement, PSW-DEMO-203-97, which includes applications procedures, may be requested from: PSW Research Station Personnel Office. Telephone: 510-559-6300. The closing date is April 15, 1997. The U.S. Forest Service is an Equal Opportunity Employer.

**STAFF FELLOW POSITION** at the National Eye Institute, Laboratory of Immunology, to study immunopathogenic processes induced by ocular-specific antigens and immunotolerance against the antigens. Candidates with a Ph.D. or M.D./Ph.D. degree and experience in cellular or molecular immunology, send your curriculum vitae to: Igal Gary, Ph.D., National Eye Institute, NIH, Building 10, Room 10N202, Bethesda, MD 20892-1858. Telephone: 301-496-4159; FAX: 301-401-0485; Email: igary@helix.nih.gov.

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

**POSTDOCTORAL POSITION** available immediately to investigate the proteins that interact with the bZIP transcription factor Nrl and regulate gene expression in the retina (*PNAS*, 93:191, 1996; *Oncogene*, 12: 207, 1996; *JBC*, 271:29612, 1996). Self-motivated candidates with strong background in cell or molecular biology should send curriculum vitae and names of three references to: Dr. Anand Swaroop, Associate Professor, University of Michigan, Kellogg Eye Center, 1000 Wall Street, Ann Arbor, MI 48105. FAX: 313-647-0228. Email: swaroop@umich.edu.

The University of Michigan is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available for a highly motivated individual to conduct research in developmental neurobiology and signal transduction, involving the functional characterization of Eph receptor tyrosine kinases. A strong background in molecular neuroscience, cellular or molecular biology is desirable. Send curriculum vitae, three letters of reference, and a statement of research interests to: Dr. Elena Pasquale, The Burnham Institute, 10901 North Torrey Pines Road, La Jolla, CA 92037. FAX: 619-646-3199; Email: elenap@ljcrf.edu.

## POSITIONS OPEN

### MEMBRANE PROTEIN CRYSTALS

A **POSTDOCTORAL POSITION** is available for work on the development of procedures for growing 2D and 3D crystals of the human multidrug resistance protein (Pgp), the CFTR, and a P-type H<sup>+</sup>-ATPase. The ATPase has been crystallized in 2D and 3D and its structure is emerging. Work with the Pgp and CFTR will proceed along similar lines. Send curriculum vitae and names of three references to: Dr. Gene A. Scarborough, Department of Pharmacology, CB #7365, F.L.O.B., University of North Carolina, Chapel Hill, NC 27599. Equal Opportunity Employer.

**POSTDOCTORAL** through **ASSISTANT PROFESSOR** positions in a program studying the structure and expression of genes involved in colonic cell differentiation and transformation. Experiments utilize tissue culture, human tissue, and novel genetic mouse strains. Especially interested in individuals with backgrounds in cell/molecular biology and/or mouse histopathology. Reply by submission of curriculum vitae to: Leonard H. Augenlicht, Ph.D., Director, Molecular Oncology, Albert Einstein Cancer Center, Montefiore Hospital, 111 East 210th Street, Bronx, NY 10467.

**NRC POSTDOCTORAL POSITION** in fisheries modeling at the National Marine Fisheries Service (NOAA) in Tiburon, California (San Francisco Bay Area). We seek an individual with outstanding quantitative skills to explore relationships among salmon population dynamics, climate, and public policy. Tenure one to three years, stipend approximately \$34,000 plus travel. For a more detailed description and application procedure, see <http://www.pfeg.noaa.gov/tib/new.htm>. A research proposal is due by April 15. Address questions to: Dr. Michael Prager. Email: [mprager@tib.nmfs.gov](mailto:mprager@tib.nmfs.gov).

**POSTDOCTORAL POSITIONS** available to 1) isolate novel neurotransmitters or neuropeptides which act as the natural ligands of "Orphan" G protein-Coupled Receptors (GPCRs); 2) study these novel molecules *in vitro* and *in vivo*. Dynamic postdoctorals with established expertise in molecular and cell biology, pharmacology and transmitter or peptide purification should send application, curriculum vitae, and three references to: Olivier Civelli, Ph.D., University of California, Irvine, Department of Pharmacology, 354 Med Surge II, Irvine, CA 92697. FAX: 714-824-4855.

A **POSTDOCTORAL POSITION** is available to study the recognition properties of macromolecules. Projects include: reconstructing cell surface receptors, characterizing HIV proteins, and resolving protein/DNA interactions. Experience with analytical ultracentrifugation, fluorescence anisotropy, optical biosensors or titration calorimetry is desirable. Send curriculum vitae, a description of research interests, and references to: David Myszk, Huntsman Cancer Institute, University of Utah, EIHG Building 533, Room 7145, Salt Lake City, UT 84112. FAX: 801-585-3833.

**POSTDOCTORAL POSITION** to investigate basic mechanisms of central synaptic transmission using electrophysiological and gene transfer techniques in cultured neurons and brain slices. Experience with electrophysiology or molecular biology preferred. Send curriculum vitae and the names of references to: Dr. Nevin Lambert, The Department of Pharmacology and Toxicology, The Medical College of Georgia, Augusta, GA 30912-2300. Email: [nlambert@immag.mcg.edu](mailto:nlambert@immag.mcg.edu). Medical College of Georgia is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available this summer in a laboratory using gene therapy techniques to protect neurons from necrotic neurological insults. No neuroscience experience needed, but individual must be thoroughly comfortable constructing herpes- or adenovirus vectors. Send curriculum vitae, summary of relevant experience, and names of three references to: Dr. Robert Sapolsky, Department of Biological Sciences, Stanford University, Stanford, CA 94305.

**POSTDOCTORAL POSITION** available immediately for studies of complement and inflammation. Background in cell biology and molecular biology or biochemistry. Please send curriculum vitae and three references to: Dr. Anne Nicholson-Weller, Beth Israel Deaconess Medical Center/Harvard Medical School, 330 Brookline Avenue, Boston, MA 02215. FAX: 617-277-6061. Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

**POSTDOCTORAL POSITION** in biophysical NMR. Participate in the development of novel solid state NMR methods, including sophisticated structural techniques and optically-pumped NMR, and in their application to biophysical problems, including structural studies of biologically significant proteins and fundamental studies of protein folding. Applicants should be highly skilled in experimental physics, physical chemistry, biophysics, or structural biology. Must be less than five years postdoctoral. Send curriculum vitae and two reprints to: Dr. Robert Tycko, Laboratory of Chemical Physics, NIDDK, National Institutes of Health, Building 5, Room 112, Bethesda, MD 20892-0520. The NIH is an Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available immediately in the area of T cell immunology. Current interests include the recognition of intracellular bacterial pathogens and processing of MMTV superantigens. Experience in molecular biology or cellular immunology essential. Excellent facilities and technical support provided. Visit our web site at <http://www.wadsworth.org/BMS>. Send curriculum vitae including the names of three references, and a statement of research interests to: Dr. Gary Winslow, Wadsworth Center, New York State Department of Health, and Department of Biomedical Sciences, State University at Albany, Albany, NY 12208. Email: [gary.winslow@wadsworth.org](mailto:gary.winslow@wadsworth.org). Grant funds administered by Health Research, Inc. Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL RESEARCH FELLOWSHIP** at NIH. Position available immediately to study activated transcription using yeast minichromosomes as a model system. What role does chromatin structure play in transcriptional regulation? Experience in DNA-protein interactions would be an advantage. Applicants must have less than five years of postdoctoral experience. Please send curriculum vitae, three references, and a letter outlining research interests and career goals to: Dr. David Clark, Laboratory of Cellular and Developmental Biology, NIDDK, National Institutes of Health, Building 6 Room B1-12, 6 Center Drive MSC 2715, Bethesda, MD 20892-2715. NIH is an Equal Opportunity Employer.

A **POSTDOCTORAL POSITION** is available in the area of Na,K-ATPase structure-function and/or physiology. Our structure function studies utilize site directed mutagenesis and expression systems. In addition, we have developed mice lacking the  $\alpha 1$  and  $\alpha 2$  isoforms and are investigating the resulting phenotype. Candidates should send a letter of interest, curriculum vitae and names of three individuals who could provide an evaluation to: Jerry B. Lingrel, Ph.D., Molecular Genetics, Biochemistry and Microbiology, University of Cincinnati, 231 Bethesda Avenue, M.L. 524, Cincinnati, OH 45267-0524.

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**POSTDOCTORAL POSITION** available immediately to study neural morphogenesis and photoreceptor cell fate determination by using the *Drosophila* visual system. Applicants should have a strong background in molecular and developmental biology. Previous experience with *Drosophila* is preferred. Please send curriculum vitae and the names of three references to: Dr. Z.-C. Lai, Box PDP, Department of Biology, The Penn State University, 208 Mueller Laboratory, University Park, PA 16802. FAX: 814-865-9131; Email: [zcl1@psu.edu](mailto:zcl1@psu.edu). An Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.

**POSTDOCTORAL POSITION** in neuroscience to investigate axonal growth signaling by cell adhesion molecules (NCAM, L1) using knockout mice, image analysis/microscopy mutagenesis, and cell cultures. Experience in molecular biology and mouse histology preferred. Send curriculum vitae to: Patricia Maness, Ph.D., Department of Biochemistry, University of North Carolina School of Medicine CB#7260, Chapel Hill, NC 27599.

**POSTDOCTORAL POSITION** available to characterize novel receptors and signal transduction mechanisms at the molecular/biochemical/cellular levels. Individuals with expertise in molecular and cell biology, receptor pharmacology should submit their curriculum vitae plus three references to: Kelvin W. Gee, Ph.D., University of California Irvine, College of Medicine, Department of Pharmacology, Irvine, CA 92697. FAX: 714-824-3451.



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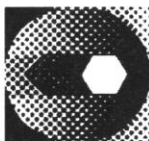
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P H A R M A C O P E I A

## CELL BIOLOGIST

An entry level **FACULTY** position is available in the Department of Anatomy/Division of Basic Sciences, under the direction of the Department Chair, Robert E. Stephens, Ph.D. Candidates must have a doctorate degree, postdoctoral or teaching experience in a relevant field, and a commitment to interdisciplinary teaching. The position will involve teaching histology and genetics to medical students. Primary emphasis is on education, but research and/or other academic activities are expected. Position begins July 1, 1997. Salary and rank will be commensurate with experience and qualifications. Send CV to: **Dawn M. Harrington, Director of Human Resources, University of Health Sciences-College of Osteopathic Medicine, 2150 Independence Blvd., Kansas City, MO 64124-2395. AA/EOE.**



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We require a PhD in Bioinformatics or Biochemistry/Molecular Biology with demonstrated informatics experience. Programming experience in SQL, Perl, Awk and C or C++ is required (HTML and Java experience a plus), and should be supported by a background in UNIX, Windows NT and Mac platforms. Experience in relational database design is essential (Oracle preferred). Pharmaceutical industry experience would be a plus.

To apply, send your curriculum vitae and the names of three references to **BERLEX, HUMAN RESOURCES EMPLOYMENT, 15049 San Pablo Ave., Richmond, CA 94804-0099. Principals only, please. EOE.**

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## POSITIONS OPEN

### YALE UNIVERSITY SCHOOL OF MEDICINE IMMUNOLOGY RESEARCH POSITION

An NIH-supported associate research scientist or **POSTDOCTORAL POSITION** is available for an individual to join a group of basic immunobiology and clinical investigators studying the role of T cells and inflammation in the pathogenesis of human asthma. Applicants must have a Ph.D. in the biological sciences, a strong background in immunology (preferably human), and experience in cellular and molecular biology techniques including tissue culture. Excellent English communication skills and the ability to work independently are also required. Send curriculum vitae, statement of research experience and interests, representative publications, and the names of three references to: **Dr. Carrie A. Redlich, Yale Medical School, Pulmonary Section, LCI 105, 333 Cedar Street, New Haven, CT 06520. Email: carrie.redlich@yale.edu**

### POSTDOCTORAL POSITION YALE UNIVERSITY SCHOOL OF MEDICINE

Position available immediately for a productive, qualified individual with an interest in studying the molecular basis of T cell activation and signaling. Expertise in immunology and molecular biology required. Applications which include a full curriculum vitae, list of publications and three references should be sent to:

**Dr. Kim Bottomly**  
Section of Immunobiology, Room LH408  
Yale University School of Medicine  
310 Cedar Street, P.O. Box 208011  
New Haven, CT 06520-8011  
FAX: 203-737-1765  
Email: kim\_bottomly@yale.edu  
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### MOLECULAR PSYCHIATRY/ YALE MEDICAL SCHOOL

Two **POSTDOCTORAL POSITIONS** available immediately to study the molecular mechanisms of drug addiction and psychiatric illness using behavioral models in transgenic mice. Prior experience with behavioral methods along with an appreciation for molecular biology is desired. The candidate should possess a Ph.D. in neuroscience, pharmacology, or experimental psychology. Send curriculum vitae and three letters of reference to: **Drs. David Self/Ronald Duman, Division of Molecular Psychiatry, Yale University School of Medicine, 34 Park Street, New Haven, CT 06508.**

**POSTDOCTORAL POSITION** available immediately to study radiation-induced transcriptional activation and signal transduction mechanisms using antisense technology. We are applying adenovirus-mediated gene delivery to study nuclear protein kinase/phosphatase-mediated events. Experience in molecular biology essential, tissue culture and virology preferable. U.S. permanent residency required. Please send curriculum vitae and names of three references to: **Kristoffer Valerie, Department of Radiation Oncology, Box 980058, Medical College of Virginia, Virginia Commonwealth University, Richmond, VA 23298. Email: kvalerie@gems.vcu.edu. Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** available immediately to study i) brain GABA and glutamate metabolism in animals with a focus on epilepsy and ii) regulation of metabolism in the developing rat brain during normoxia and hypoxia using *in vivo* NMR spectroscopy. NMR studies of brain slices and isolated mitochondria are also ongoing. Applicants should have hands-on experience using multinuclear *in vivo* NMR spectroscopy. Send curriculum vitae with cover letter to: **Dr. Kevin L. Behar, C128-A SHM, c/o Department MBB, P.O. Box 208024, 333 Cedar Street, New Haven, CT 06520-8024. Yale University is an Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** to study sequence selective DNA damaging agents *in vitro* and *in vivo*. Ph.D. in biochemistry, or related discipline required. Experience in DNA damage and repair, and ligation-mediated PCR is desired. Send résumé, including the names, addresses and telephone numbers of three references, to: **Dr. Barry Gold, Eppley Institute, University of Nebraska Medical Center, Omaha, NE 68198-6805. Email: bgold@unmc.edu.**

The University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

### NORTHWESTERN UNIVERSITY POSTDOCTORAL FELLOWSHIP IN BIOMATERIALS AND TISSUE ENGINEERING

The Division of Biological Materials is seeking two **POSTDOCTORAL FELLOWS** in the areas of polymer chemistry, macromolecular science, or tissue engineering. Qualified candidates must have a Ph.D. in either materials science and engineering, biomedical engineering, chemical engineering, or another relevant scientific field. The ideal candidate should be able to conduct independent and interdisciplinary research that integrates basic science and engineering principles with clinically relevant problems in tissue engineering. Specific areas of interest include polymer synthesis and characterization, surface modification, and biomolecular engineering of materials. Interested candidates should send a curriculum vitae, statement of research interests, and the names of three references to: **Prof. Kevin E. Healy, Northwestern University, 311 East Chicago Avenue, Chicago, IL 60611. Northwestern University is an Affirmative Action/Equal Opportunity Employer and welcomes applications from qualified women and minorities. U.S. citizens/permanent residents only.**

### POSTDOCTORAL POSITION IN CARDIAC NMR SPECTROSCOPY MASSACHUSETTS GENERAL HOSPITAL AND HARVARD MEDICAL SCHOOL

A **POSTDOCTORAL POSITION** to study cardiac biochemistry and carbon-13 NMR spectroscopy is available at the NMR Center of Massachusetts General Hospital and Harvard Medical School in Charlestown, MA. Qualified candidates will hold a Ph.D. or M.D. with experience in NMR or cardiovascular sciences.

Submit curriculum vitae and three letters of reference to: **E. Douglas Lewandowski, Ph.D., NMR Center, Massachusetts General Hospital, Building 149, Thirteenth Street, Charlestown, MA 02129.**

### POSTDOCTORAL ASSOCIATE SYLVESTER COMPREHENSIVE CANCER CENTER

Seeking Ph.D. in Molecular Biology. Should be experienced in cloning, gene regulation, and cellular signaling. Will be responsible for projects in Tumor Immunology. Salary commensurate with previous publications and experience. Must exhibit excellence in research. Please forward curriculum vitae and names of three references to: **Amitabha Mazumder, M.D., Associate Director for Clinical Research, c/o Susan Martin, Sylvester Comprehensive Cancer Center, 1475 NW 12th Avenue, (D8-4), Miami, FL 33136. The University of Miami School of Medicine is an Affirmative Action/Equal Opportunity Employer and a smoke/drug free workplace.**

**POSTDOCTORAL POSITION** available to participate in studies on the structure, function, and regulation of components of signal transduction pathways. Prefer applicants with experience in molecular cloning and recombinant DNA techniques. Send curriculum vitae to: **Dr. Zahi Damuni, Associate Professor, Department of Cellular and Molecular Physiology, The Pennsylvania State University College of Medicine, 500 University Drive, Hershey, PA 17033. Telephone: 717-531-4195; FAX: 717-531-7667. For your health, Hershey Medical Center is a smoke-free campus. We are an Equal Opportunity/Affirmative Action Employer and encourage minority and female applicants to apply.**

**POSTDOCTORAL POSITION** available to study neuronal nicotinic acetylcholine receptors and specific suppression of the autoimmune response to muscle nicotinic receptors. Requires Ph.D. or M.D. Experience with cell culture, making and using mAbs, ligand binding, biochemistry, and molecular biology is preferred. Send curriculum vitae and arrange for three reference letters to be sent to: **Dr. Jon Lindstrom, Department of Neuroscience, University of Pennsylvania, Philadelphia, PA 19104-6074. FAX: 215-573-2015; Email: jslkk@mail.med.upenn.edu.**

### POSTDOCTORAL/RESEARCH ASSOCIATE

Molecular modeling and molecular dynamics research involving investigations centered around the protein:ligand interaction. CHARMM experience preferred. Send curriculum vitae and references to: **Dr. William M. Southerland, Department of Biochemistry and Molecular Biology, Howard University College of Medicine, 520 W Street, NW, Washington, DC 20059. Email: bill@lmcc.howard.edu.**

## POSITIONS OPEN

### POSTDOCTORAL POSITION MOLECULAR NEUROSCIENCE

Available immediately to study the mechanisms of inflammation in neurodegeneration and brain aging at the level of gene expression using a combination of molecular (gene cloning) and cell biological (transfection and gene knockout) techniques. A strong background in recombinant DNA techniques is recommended. Qualified candidates should forward curriculum vitae and the names of three references to: **Giulio Maria Pasinetti, M.D., Ph.D., Department of Psychiatry, Box 1229, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. Email: gp2@doc.mssm.edu; FAX: 212-876-9042. The Mount Sinai Medical Center is an Equal Opportunity Employer. We foster diversity in the workplace.**

### POSTDOCTORAL POSITION UNIVERSITY OF CHICAGO

A position is available to investigate structure-function relationships of protein-RNA interaction in the context of apoB mRNA editing. Studies will examine the functional motifs in apobec-1 and putative target RNAs and also the transacting factors required for editosome assembly. These will include *in vitro* studies with recombinant proteins as well as relevant cell and animal models. Candidates with an outstanding background in molecular biology should send curriculum vitae to: **Nicholas Davidson, M.D., University of Chicago, MC 4076, 5841 South Maryland Avenue, Chicago, IL 60637. Email: ndavidso@medicine.bsd.uchicago.edu. Affirmative Action/Equal Opportunity Employer.**

### POSTDOCTORAL RESEARCH TRAINING FELLOWSHIPS

**FELLOWSHIPS** available to residents of North America with Ph.D., M.D., or comparable degree and less than one year of postdoctoral laboratory experience by application deadline for beginning training in basic biomedical research. The three-year award consists of a stipend of \$25,000 for the first year, \$27,000 for the second year, \$29,000 for the third year; \$2,000 per annum research allowance; travel to fellowship location; annual meeting. Application deadline is August 15; fellowships activate following July. For application forms, write: **The Helen Hay Whitney Foundation, 450 East 63rd Street, New York, NY 10021. FAX: 212-688-6794.**

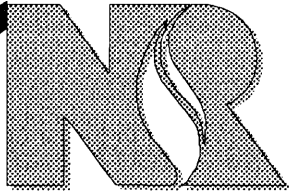
### POSTDOCTORAL POSITIONS MOLECULAR VIROLOGY/IMMUNOLOGY

Two positions are available to investigate the attenuating and adjuvant effects of cytokines on the development of live attenuated simian immunodeficiency virus (SIV) vaccines. Recombinant SIVs expressing cytokine genes will be investigated as potential vaccines against AIDS both in neonatal and juvenile macaques. A strong background in molecular biology and retrovirology is required. Send curriculum vitae and three references to: **Dr. T. Yilma, VM:Lab for Tropical Diseases, University of California, Davis, CA 95616. FAX: 916-752-1354; Email: tyilma@ucdavis.edu. An Equal Opportunity Employer.**

**POSTDOCTORAL RESEARCH SCIENTISTS/FELLOWS** wanted to study vascular biology. Applicants should have an M.D. or Ph.D. and experience in molecular biology and cellular biology. Familiarity with biochemical and molecular biological techniques, including PCR, gene cloning, Northern and Southern blotting is desirable. Send curriculum vitae to: **LeRoy Rabbani, M.D., Division of Cardiology, College of Physicians and Surgeons, Columbia University, 807 Black Building, 630 West 168th Street, New York, NY 10032. FAX: 212-305-3679. We take affirmative action toward equal opportunity.**

**POSTDOCTORAL POSITIONS** are open immediately for studies on renin and prorenin uptake in tissues. Approaches include characterization of the binding domains of renin and prorenin, and molecular cloning of the binding site. A background in molecular biology and physiology, pharmacology, endocrinology, or related discipline is required. Send curriculum vitae and reference list to: **Daniel F. Catanzaro, Ph.D., Cardiovascular Center, Cornell University Medical College, 1300 York Avenue, Room A823, New York, NY 10021. FAX: 212-746-2177; Email: dfcatanz@mail.med.cornell.edu. Cornell University is an Equal Opportunity/Affirmative Action Employer.**





## Health Scientist Administrator Nurse Consultant

National Institute of Nursing Research  
National Institutes of Health

The NINR Division of Extramural Activities seeks two Health Scientist Administrators/Nurse Consultants. These positions are located in Bethesda, Md, with salary commensurate with experience. The successful candidates for these positions provide scientific evaluation of research grants; advise other extramural program staff of significant research findings; and represent the NINR extramural program of nursing research at NIH initial review meetings and site visits.

We seek researchers with demonstrated research experience in patient care and specific research experience in one of the following areas: chronic conditions; health and risk behaviors; health promotion and disease prevention; reproduction and infant health; neurofunction and brain disorders; immune and neoplastic diseases; cardiopulmonary health and trauma transplantation, wound healing; nursing systems; ethics; minority and women's health and genetics.

Applications must be received by April 14, 1997. The vacancy announcement describing application procedures can be obtained by calling the NINR Personnel Office on 301-402-2631. This material can also be retrieved by fax (ID 4816) by calling 301-594-2953 locally or 1-800-728-JOBS for long distance.

*Please visit our home page: <http://www.nih.gov/ninr>*

NINR/NIH is an Equal Opportunity Employer

### GLOBAL CAREER OPPORTUNITIES

#### THE WELLCOME TRUST

## DIRECTOR

Applications are invited for the position of Director of The Wellcome Trust to succeed Dame Bridget Ogilvie in 1998.

The role, effectively Chief Executive of the Trust, reports to the Governors (Trustees) who set the Trust's policies on the advice of the Director, who is then expected to put those policies into effect. The post gives the appointee an unparalleled opportunity to play a creative role in the future of biomedical research, both in the scientific community and in research policy formation generally.

The Wellcome Trust is the largest endowed charity in the world. It concentrates its grant giving activity in biomedical research in the United Kingdom. It has 360 employees and an annual income in excess of £350 million.

The successful applicant will have been able to demonstrate high achievement in science, administration, or a relevant business. The scale of the Trust's resources mean that experience and confidence in administering such funds, and leading highly trained scientific and professionally qualified staff, would be a distinct advantage. The Trust will appoint an individual with proven ability and leadership. The salary will be commensurate with these aims.

The Trust has appointed executive search consultants, Russell Reynolds Associates, to assist it in this appointment. Written applications should be addressed to

Carol O'Driscoll, Box No. 126, 24 St. James's Square, London SW1Y 4HZ.

Further particulars are available on request from Carol O'Driscoll at the same address.

The closing date for applications will be 2 June 1997.

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH FELLOWSHIP (M.D., Ph.D.): CANCER IMAGING (UNIVERSITY OF CALIFORNIA, SAN FRANCISCO AND LAWRENCE BERKELEY NATIONAL LABORATORY)

Two-year research training FELLOWSHIP in Diagnostic Oncology Imaging. Research training focuses on NMR imaging and spectroscopy, as well as Emission Tomography (PET and SPECT). Equipment includes state-of-the-art MRI, PET and other imaging devices and laboratory facilities at the University of California, San Francisco Department of Radiology and at the Lawrence Berkeley National Laboratory Center for Functional Imaging. Trainees work under direct guidance of a faculty preceptor. Program funded by the National Cancer Institute (T32 CA 66527). U.S. citizenship or permanent residency required. Send inquiries to: **Randall A. Hawkins, M.D., Ph.D., Department of Radiology, University of California, San Francisco (UCSF), 505 Parnassus Avenue, San Francisco, CA 94143-0252. Telephone: 415-476-1521. Email: randy\_hawkins@radmac1.ucsf.edu.** Minorities and women are encouraged to apply.

## MOLECULAR NEUROSCIENCE

**POSTDOCTORAL POSITIONS** available to study 1) abnormalities in signal transduction systems in manic/depression and molecular actions of therapeutic drugs, 2) mechanistic association of amyloid, tangles and cholinergic dysfunction in Alzheimer's disease, and therapeutic interventions, 3) following new leads of G-protein dysfunction related to the biochemical basis of schizophrenia, 4) influence of oxidative stress on signal transduction and transcription factor activation, 5) molecular actions of glucocorticoid hormones in the CNS modulating survival/apoptosis, 6) neuronal dysfunction in a new transgenic mouse model of Huntington's disease. Experience in molecular biology, molecular biology, or neuroscience preferred. Candidates must possess a Ph.D. from North America or Western Europe. Contact: **Dr. R. Jope, Behavioral Neurobiology, 1057 Sparks, University of Alabama, Birmingham, AL 35294-0017.**

## STANFORD UNIVERSITY MEDICAL SCHOOL

**POSTDOCTORAL POSITIONS** (two) available in the Cancer Biology Research Laboratory. One position is to study DNA repair with a focus on DNA-dependent protein kinase. For background on the project, see *Science*, 267:1178 and *PNAS*, 93:13825. Experience in molecular biology is required with an emphasis on DNA protein interactions or FISH techniques.

The second position is to study molecular aspects of activation and mechanism of action of a new hypoxia-activated drug currently in Phase III clinical trials. Experience with protein fractionations and/or studies of the nuclear matrix would be an advantage. Send curriculum vitae and names of three references to: **Dr. J. Martin Brown or Dr. C. Kirchgesner, CBRL, Department of Radiation Oncology, School of Medicine, Stanford University, Stanford, CA 94305-5468.**

### POSTDOCTORAL FELLOWSHIP FOR BIOPHYSICAL SCIENTIST TO STUDY PROTEIN FOLDING

Postdoctoral FELLOWSHIP is available for a biophysical scientist to study the dynamics of protein folding using methods that include laser T-jump, time-resolved spectroscopy, and ultrarapid mixing. Applicants should have a strong background in experimental physics or physical chemistry and must have less than five years postdoctoral experience. Send curriculum vitae, publication list, and three letters of reference to: **Dr. William A. Eaton, Chief Laboratory of Chemical Physics, Building 5, Room 104, National Institutes of Health, Bethesda, MD 20892-0520.** The NIH is an Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS** in Neuroscience, Harvard Medical School and Children's Hospital in neocortical transplantation and development: cellular and molecular control over neural precursor differentiation; cellular repair and complex circuit reconstruction. Training in cellular and molecular neuroscience, neuronal/precursor culture or transplantation, and/or neocortical development and anatomy required. Reply for spring (1) and fall 1997 (1) positions to: **J. D. Macklis, Division of Neuroscience, 320 Longwood Avenue, Boston, MA 02115.**

## POSITIONS OPEN

### POSTDOCTORAL POSITION

Retina Group, Department of Neuroscience, University of Pennsylvania. Functional architecture of mammalian retina: Record intracellular/whole cell patch from ganglion/amacrine cells: simulate identified circuits to study their information processing; identify postsynaptic second-messenger systems. Send curriculum vitae, letter of recommendation to: **Robert Gilpin Smith, Ph.D., University of Pennsylvania, Department of Neuroscience, 123 Anatomy/Chemistry Building, Philadelphia, PA 19104-6058. Email: rob@retina.anatomy.upenn.edu.**

### POSTDOCTORAL POSITION UNIVERSITY OF MICHIGAN

Position available to study signal transduction and transcription regulation in a laboratory applying cutting edge biochemical and biophysical techniques. Current projects in the laboratory include investigation of the structural organization of transcription factor complexes; determination of the functional significance of transcription factor induced DNA bending; analysis of the mechanisms of differential regulation of cytokine gene expression in distinct T cell subtypes; and studies of the regulation of immunomodulatory genes by TGF $\beta$ -1. For additional information about these projects and recent references, see <http://www.med.umich.edu/biochem/all.faculty/kerppola.html>.

Please send your application with curriculum vitae and the names of three references to: **Dr. Tom Kerppola, Department of Biological Chemistry, University of Michigan School of Medicine, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0650. Email: kerppola@umich.edu.** Equal Opportunity Employer.

## COLD SPRING HARBOR LABORATORY

**POSTDOCTORAL POSITION** is available to work on the formation of protein synthesis-dependent long-term memory in mice. Research focuses on the signalling pathways activated during learning and how they affect CREB-dependent transcription, other transcription, and post-transcriptional events in the nucleus. Efforts are currently underway to identify the neurons which participate in memory formation, as well as develop inducible transgenic technology. Candidate should have strong mouse behavioral background, transgenic expertise, and/or molecular and biochemical experience. Send curriculum vitae, a statement of research interests and experience, and names of three references to: **Jerry Yin, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY 11724. Email: yin@cshl.org; FAX: 516-367-8880.**

**POSTDOCTORAL FELLOWSHIP**—Applicants with a strong background in molecular biology are sought to study the role of folate transport elements in mouse development and the neoplastic process using transgenic and gene targeting technologies. This program is a component of the Albert Einstein College of Medicine Cancer Center. There are extensive technologies and services available to support molecular based research and mouse genetic studies. The Albert Einstein College of Medicine is located in a residential area near Long Island Sound and Westchester County. Apply to: **Dr. I. David Goldman, Director, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, Cancer Research Center, Belfer 10-02, 1300 Morris Park Avenue, Bronx, NY 10461.** Albert Einstein College of Medicine is an Equal Opportunity Employer.

### POSTDOCTORAL RESEARCH ASSOCIATE POSITIONS

Two positions are available immediately for individuals with interest in the intracellular trafficking of membrane proteins in neurons. Our work focuses on the physiological regulation of the cholinergic choline cotransporter. Experience with recombinant DNA technology, molecular cloning techniques, and signal transduction is highly desirable. Salaries are competitive and commensurate with experience. Interested candidates should send their curriculum vitae and three letters of reference to: **Dr. Robert Newkirk and/or Dr. James G. Townsel, Neuroscience Unit, Meharry Medical College, Nashville, TN 37208.**

Equal Opportunity Employer.

## POSITIONS OPEN

### POSTDOCTORAL POSITION DEPARTMENT OF MEDICINE HARVARD MEDICAL SCHOOL

A postdoctoral FELLOWSHIP is available in a multidisciplinary laboratory studying the control of blood cell differentiation and mechanisms of neoplasia. Current projects include growth factor signal transduction and early response gene regulation.

Experience with molecular biological and/or protein biochemical techniques is required.

Send curriculum vitae, statement of research interests, and names of three references to:

**Arthur J. Sytkowski, M.D.  
Laboratory for Cell and Molecular Biology  
Beth Israel Deaconess Medical Center  
Harvard Medical School  
One Deaconess Road  
BURL Building, Room 548  
Boston, MA 02215  
Email: asytkows@west.bidmc.harvard.edu**

The following positions are available in the National Cancer Institute, Bethesda, Maryland.

**1. JUNIOR MICROBIOLOGIST or BIOCHEMIST** to work on microbiological, biochemical, and molecular biological projects. Qualifications: B.S. or M.S. with relevant major, experience in laboratory work needed, U.S. citizenship required.

**2. POSTDOCTORAL POSITION** to study the mechanism and regulation of gene transcription from packaged chromosome. A background in biochemistry/biophysics is required; a strong background in genetics as well will be given preference. Applicants must have a doctoral degree.

To apply send curriculum vitae and three letters of reference to: **Sankar Adhya, Ph.D., c/o Mrs. Ann Schombert, Laboratory of Molecular Biology, NCI, NIH, Building 37, Room 4E16, 37 Convent Drive MSC 4255, Bethesda, MD 20892-4255.**

## POSTDOCTORAL/RESEARCH ASSOCIATES

Funded studies involve teratogen-induced alterations in signal transduction mechanisms regulating P450 expression; purification and characterization of unique milk proteins; and hormonal imprinting of P450s. The applicant should have relevant research experience in such areas as signal transduction, P450 and/or protein purification. Promotions are within the faculty research track. Applicants should send a letter indicating the project of interest, a brief description of research experience, a current résumé, and a list of three references to: **Dr. Bernard H. Shapiro, Laboratories of Biochemistry, Department of Animal Biology, University of Pennsylvania, 3800 Spruce Street, Philadelphia, PA 19104-6048.**

### UNIVERSITY OF WASHINGTON POSTDOCTORAL POSITION MOLECULAR ONCOLOGY

A **POSTDOCTORAL POSITION** is available to study the mechanisms of protein transport in tumorigenesis and the role of GAP proteins in human neoplasia (*PNAS*, 93:9154, 1996; *JBC*, 272:6097, 1997). Strong background in cell and molecular biology or biochemistry required. Send curriculum vitae and names of referees to: **Dr. Raymond Yeung, Department of Surgery and Division of Medical Genetics, c/o Kay Wicks, Department of Surgery, Box 356410, University of Washington Medical Center, Seattle, WA 98195. FAX: 206-543-8136.** An Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available in a well-funded pulmonary laboratory investigating 1) infections (i.e., *P. carinii*, *M. tuberculosis*; adherence mechanisms, host response and 2) drug toxicities (i.e., bleomycin; DNA damage/repair) and therapeutic strategies. Experience with aerosol, liposome, or gene therapy technology a real plus. Send curriculum vitae and three references to: **W. J. Martin, M.D., Indiana University Medical Center, 425 WD OPW, 1001 West 10th Street, Indianapolis, IN 46202.**

**POSTDOCTORAL POSITIONS** available immediately to work on the development of artificial olfactory systems by incorporating physiological principles into engineered devices. Neuroscience interest with experience in engineering and computers required. Please send curriculum vitae and three reference letters to: **John Kauer, Ph.D., Joel White, Ph.D., Department of Neuroscience, Tufts Medical School, 136 Harrison Avenue, Boston, MA 02111. FAX: 617-636-0476.**

**DEPARTMENT OF ANATOMY AND NEUROBIOLOGY  
COLLEGE OF VETERINARY MEDICINE AND  
BIOMEDICAL SCIENCES  
COLORADO STATE UNIVERSITY  
Tenure-Track Faculty Position  
Veterinary Anatomist**

The Department of Anatomy and Neurobiology at Colorado State University has a tenure-track opening for a veterinary anatomist at the level of Assistant Professor or higher. Academic rank will be commensurate with professional experience. Candidates are expected to have a Ph.D. Preference will be given to individuals who also have a DVM. The Department is an integral part of the Professional Veterinary Medicine Program, which was selected by the Colorado Commission on Higher Education as a Program of Excellence. The Department is a major participant in the campus-wide Molecular, Cellular and Integrative Neuroscience Program. The successful candidate will be expected to contribute to departmental teaching in the Professional Veterinary Medicine Program, and to courses in the undergraduate and graduate curricula. Preference will be given to applicants with experience in the development and use of computer-assisted instruction.

The successful applicant will be expected to maintain an extramurally-funded research program. Research interest should complement those of the Department and the Molecular, Cellular and Integrative Neuroscience Program. Particular areas of interest include structural biology, integrative neuroscience and/or developmental neurobiology. Applicants with research interests in other areas will be considered.

Applications will be accepted until April 18, 1997 or until a suitable candidate is identified. Send curriculum vitae and names of three references to: **Chair, Search Committee, Department of Anatomy and Neurobiology, Colorado State University, Fort Collins, CO 80523-1670.** CSU is EEO/AA employer. E.O. Office: 101 Student Services, Colorado State University, Fort Collins, CO 80523-1016.

**POSITION AVAILABLE  
COGNITIVE NEUROSCIENCE  
MONTREAL NEUROLOGICAL INSTITUTE  
MCGILL UNIVERSITY**

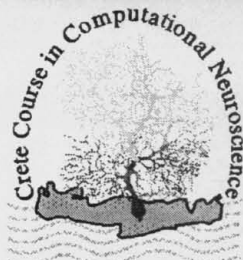
The Montreal Neurological Institute, McGill University, invites applications for two tenure track positions at the Assistant Professor level in the Cognitive Neuroscience Group. One of the positions will be for work with human subjects and the other for work with experimental animals. The applicants should hold a Ph.D. degree and must have had postdoctoral training in a field relevant to cognitive neuroscience. The Montreal Neurological Institute has excellent facilities for functional neuroimaging and the study of patients with brain lesions. Candidates with computational skills or electrophysiological recording in animals are encouraged to apply.

Prospective candidates should send curriculum vitae and a summary of research plans to:

**Search Committee  
Cognitive Neuroscience Centre  
Montreal Neurological Institute  
3801 University Street, Room 276  
Montreal, Quebec, Canada  
H3A 2B4**

Deadline for receipt of applications is June 30, 1997. *In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. McGill University is committed to Equity in employment.*

**COURSES & TRAINING**



**Crete Course in  
Computational Neuroscience  
September 7 - October 3, 1997**

**Directors:**

**Erik De Schutter** (University Antwerp, Belgium)  
**Adonis Moschovakis** (University Crete, Greece)  
**Idan Segev** (Hebrew University Jerusalem, Israel)  
**Jim Bower** (California Institute Technol., USA)

The **Crete Course in Computational Neuroscience** introduces the practical application of computational methods in neuroscience, in particular how to create biologically realistic models of neurons and networks. A distinguished international faculty gives morning lectures and the rest of the day is dedicated to learning how to model various neuronal systems. The first week introduces the most important analytical and numerical techniques in neuronal modeling and students learn to use software packages like GENESIS, NEURON, and XPP on individual unix workstations. During the following weeks the lecture topics range from modeling single cells and subcellular processes through the simulation of simple circuits, large neuronal networks and system models of the brain. The course ends with a presentation of student modeling projects.

The **Course** is designed for advanced graduate students and postdoctoral fellows from a wide range of disciplines. A basic background in neurobiology and some computer experience is required. A total of 28 students of any nationality will be accepted with an age limit of 35 years. Every student will be charged a **tuition fee** of 500 ECU (approx. US\$600). In the case of students with a nationality from the EU, affiliated countries or Japan, the tuition fee covers lodging, travel and all course-related expenses. All applicants with other nationalities will be charged an **additional fee** of 1000 ECU. **Application deadline: April 5th, 1997.**

**Information and application:** Prof. E. De Schutter, University of Antwerp - UIA, Universiteitsplein 1, B2610 Antwerp, Belgium. email: crete\_course@bbf.uia.ac.be  
**Please use our www address:** [http://bbf-www.uia.ac.be/Crete\\_index.html](http://bbf-www.uia.ac.be/Crete_index.html)

**Faculty:** L. Abbott (Brandeis U), D. Beeman (U Colorado), A. Borst (MPI), R. Calabrese (Emory U), A. Destexhe (U Laval), O. Ekeberg (Royal I Technol.), T. Flash (Weizmann I), A. Fetz (U. Strasbourg), D. Hansel (Ecole Polytechn), M. Hines (Yale U), J.B. Jack (Oxford U), R. Kotter (Heinrich Heine U), G. LeMasson (U Bordeaux), K. Martin (I Neuroinformatics), M. Nicolelis (Duke U), S. Redman (Australia Nat U), J.M. Rinzel (NIH), S.A. Shamma (U Maryland), H. Sompolinsky (Hebrew U), S. Tanaka (RIKEN, Japan), A.M. Thomson (Royal Free Hosp), T.L. Williams (St George Hosp), C. Wilson (U Tennessee, USA), Y. Yarom (Hebrew U) and others.

The **Course** is supported by the European Commission (4th Framework Training and Mobility of researchers program), by The Brain Science Foundation (Tokyo) and by UNESCO. **Local administrative organization:** The Institute of Applied and Computational Mathematics of FORTH (Crete, GR)

**The Anne and Max Tanenbaum Chair in  
Molecular/Cellular Neuroscience  
Research at The Toronto Hospital**

Funded by an endowment from Anne Tanenbaum, a Joint Chair program in biomedical research has been established by the University of Toronto in cooperation with The Toronto Hospital, the Baycrest Centre for Geriatric Care, The Hospital for Sick Children, and Mount Sinai Hospital to honour Anne and Max Tanenbaum. The endowed Chair at The Toronto Hospital will be awarded to an outstanding researcher with potential for leadership and who has international recognition in a relevant area of neuroscience. The Toronto Hospital houses the largest clinical Neurosciences Centre in Canada. Neuroscience research, comprising over 40 principal investigators in basic and clinical sciences at The Toronto Hospital, is one of the priority research programs of the Hospital and the University of Toronto. The Neurosciences Centre has strengths and interests in the following fields; neuroprotection, stroke, epilepsy, CNS trauma including spinal cord injury, neuroimmunology, aging, neuro-oncology, movement disorders, neuromodelling, systems neuroscience.

For the Tanenbaum Chair in Molecular/Cellular Neuroscience, adequate resources in space and funding will be provided to facilitate a world-class program in cellular and molecular neurobiology. The Chair will also lead in the recruitment of 3 or more cellular/molecular neuroscientists for this program.

The Toronto Hospital encourages applications from qualified women and men, members of visible minorities, aboriginal peoples and persons with disabilities. In accordance with Canadian immigration requirements, this advertisement is directed first to Canadian citizens and permanent residents.

Applicants should submit, along with a cover letter describing current research interests and future research goals, a curriculum vitae, relevant reprints, and have three letters of reference sent independently by June 1, 1997 to:

**Dr. Donald S. Layne, Vice President, Research, The Toronto Hospital, 200 Elizabeth Street, Toronto, Ontario, CANADA M5G 2C4. Tel: (416) 340-4561; Fax: (416) 340-4596.**



## POSITIONS OPEN

### X-RAY CRYSTALLOGRAPHY

Two funded POSTDOCTORAL POSITIONS are available immediately for structural studies of DNA replication and repair proteins by X-ray crystallography (see <http://sbweb.med.harvard.edu/tome>). We are investigating the structure and function of phage T7 DNA replication proteins in multiprotein complexes containing DNA substrates. These studies benefit from a strong collaboration with the research group of Charles Richardson. A second focus of our group is the structure of DNA base excision-repair proteins complexed with selective DNA-based inhibitors, in collaboration with Gregory Verdine. Candidates should have experience in macromolecular crystallography and expertise in protein biochemistry. Data-quality crystals of several of these protein-DNA complexes are in hand. Successful candidates will join a research team with state-of-the-art X-ray and computing facilities. Send curriculum vitae with the names of three references via Email to: [tome@jckle.med.harvard.edu](mailto:tome@jckle.med.harvard.edu), or to: Tom Ellenberger, Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, 240 Longwood Avenue, Boston, MA 02115.

### RESEARCH TRAINING IN THE BIOLOGY OF AGING AND AGE-RELATED DISEASES

Postdoctoral FELLOWSHIPS are available at the University of Wisconsin-Madison Institute on Aging. Funded by the National Institute on Aging, the training program focuses on basic mechanisms of aging, preventive interventions, and clinically relevant problems encountered by older adults. Training is available in age-related changes in skeletal muscle and energy regulation (Cartee, Kemnitz, Schultz), relationships among caloric restriction, oxidative stress, and DNA damage (Aiken, Boothman, Ji, Oberley, Pugh, Weindruch), molecular etiology of Alzheimer's disease (Hell, Malter), immunologic aging (Hinshaw, Muller), osteoporosis (Binkley, Markel, Suttie), nutritional epidemiology of ocular aging (Mares-Perlman), prostate cancer (Wilding), falls (Mahoney), swallowing changes with aging (Robbins), and post-menopausal neuroendocrine regulation (Carnes). Traineeships are limited to U.S. citizens and permanent residents. Send a letter specifying research interests, curriculum vitae, transcripts, and three letters of recommendation to: Dr. Richard Weindruch, Institute on Aging, University of Wisconsin, 1300 University Avenue, Madison, WI 53706. The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.

### GRADUATE ASSISTANTSHIPS IN GLOBAL CHANGE RESEARCH UNIVERSITY OF ALASKA FAIRBANKS INSTITUTE OF ARCTIC BIOLOGY

Four graduate research ASSISTANTSHIPS for highly talented and motivated Ph.D. students are available to study biological aspects of global change in high latitude regions. The assistantships begin in summer/fall 1997 and are associated with the National Science Foundation (NSF)-funded Taiga LTER site at Bonanza Creek, the NSF Arctic System Science Program, and the NASA Land-Cover and Land-Use Change Program. Students with research interests in ecosystem ecology, vegetation dynamics, ecological modeling, or remote sensing are strongly encouraged to apply. For additional information contact: Dr. A. David McGuire, Institute of Arctic Biology, University of Alaska Fairbanks, Fairbanks, AK 99775. Email: [ffadm@aurora.alaska.edu](mailto:ffadm@aurora.alaska.edu); Telephone: 907-474-6242.

### POSTDOCTORAL POSITION HARVARD MEDICAL SCHOOL

Position available to study: 1) The molecular genetics of neuronal differentiation using a novel *in vitro* model system; or 2) molecular mechanisms involved in neuronal apoptosis and Alzheimer's disease. Send curriculum vitae, a brief description of research experience, and names of three references to: Dr. Bruce Yankner, Children's Hospital, Enders 260, 300 Longwood Avenue, Boston, MA 02115. FAX: 617-738-1542. An Equal Opportunity Employer.

## POSITIONS OPEN

### POSTDOCTORAL ASSOCIATE INSECT TOXICOLOGY/RESISTANCE MANAGEMENT DEPARTMENT OF ENTOMOLOGY UNIVERSITY OF NEBRASKA

Two-year postdoctoral position available immediately to investigate the mechanisms of insecticide resistance in western corn rootworms (*Diabrotica virgifera virgifera* LeConte) and to develop monitoring program for documenting the development of resistant populations involving both field and laboratory components. Requires Ph.D. in entomology or related field and experience in biochemical techniques, toxicokinetics, and molecular biology. Submit curriculum vitae, statement of research interests, and names of three references postmarked by April 14, 1997 to: Blair Siegfried. Email: [bds@unlinfo.unl.edu](mailto:bds@unlinfo.unl.edu); Telephone: 402-472-8714 or Lance Meinke. Email: [agri013@unlvm.unl.edu](mailto:agri013@unlvm.unl.edu); Telephone: 402-472-8707, Department of Entomology, University of Nebraska, 202 Plant Industry Building, Lincoln, NE 68583-0816. FAX: 402-472-4687. Committed to a pluralistic campus through Affirmative Action and Equal Opportunity, University of Nebraska at Lincoln is responsive to the needs of dual career couples and assures reasonable accommodation under the Americans with Disabilities Act. Contact Drs. Siegfried or Meinke for additional information.

### POSTDOCTORAL POSITIONS IN NEUROSCIENCE "COMMUNICATIVE SCIENCES"

are offered in the biological disciplines basic to research on hearing, chemical senses and other communicative sciences. Eleven faculty investigators provide this training with state-of-the-art approaches in an interdisciplinary format in cell, molecular, and developmental biology as well as the traditional areas. Contact: Center for Neurological Sciences, MC3405, The University of Connecticut Health Center, Farmington, CT 06030. Telephone: 860-679-4678; Email: [nsinfo@neuron.uconn.edu](mailto:nsinfo@neuron.uconn.edu); Website: [www3.uconn.edu/nsinfo](http://www3.uconn.edu/nsinfo).

## COURSES & TRAINING

### PLANT BIOCHEMISTRY 1997

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

### MOLECULAR METHODS IN MARINE BIOLOGY

### OREGON INSTITUTE OF MARINE BIOLOGY CHARLESTON, OR, AUGUST 18–30, 1997

An intensive two-week hands-on laboratory course designed for students, faculty, postdoctorals, and other professionals, covering basic molecular techniques using marine organisms as model systems. The course will be taught at Oregon Institute of Marine Biology, on the spectacular Oregon coast. Methods to be covered: PCR, southern, northern, cloning, sequencing, DNA fingerprinting. Cost: \$1290, includes meals and room. To earn four University of Oregon course credits, add an additional \$200. For information and application materials, contact: Dr. Chuck Wimpee, Department of Biological Sciences, UW-Milwaukee, P.O. Box 413, Milwaukee, WI 53201. Telephone: 414-229-6881. FAX: 414-229-3926; Email: [cwimpee@csd.uwm.edu](mailto:cwimpee@csd.uwm.edu).

## POSITIONS OPEN



### POSTDOCTORAL FELLOW HUMAN GENE THERAPY RESEARCH INSTITUTE

The Human Gene Therapy Research Institute (HGTRI) has available POSTDOCTORAL POSITIONS for research in gene transfer systems and their application to the treatment and prevention of human disease. Laboratory focus is on translational research with a long-term goal of improving gene transfer into humans. Backgrounds in molecular virology, cancer biology, immunology, and microbiology are preferred, but all candidates with evidence of skills in molecular biology, cell biology, and mammalian biology will be considered. Positions are available immediately.

HGTRI is a not-for-profit, academic research group funded by the Central Iowa Health System of Des Moines. Laboratories provide state of the art equipment, animal facility, and administrative and technical support. Applicants should submit a curriculum vitae, an outline of current and future research interests, and three references to: Charles J. Link Jr., M.D., Director Gene Therapy Program, Iowa Health System, 1313 High Street, Suite 111, Des Moines, IA 50309. Equal Opportunity Employer/Affirmative Action/Minorities/Females/Disabled/Veterans.

POSTDOCTORAL POSITIONS in protein structure-function studies. The University of California, San Francisco School of Pharmacy has two POSTDOCTORAL POSITIONS available immediately in the laboratories of Professors George Kenyon and Patricia Babbitt. Looking for investigators with a background in enzyme kinetics, molecular biology, or cell biology to pursue protein structure-function studies. Both positions offer an opportunity to develop skills in computational biology and bioinformatics in addition to traditional experimental analysis of protein structure-function relationships. Submit a cover letter, curriculum vitae, and names of referees to: Dr. Patricia Babbitt, Box 0446, Department of Pharmaceutical Chemistry, University of California, San Francisco, CA 94143-0446 by conventional mail or by Email to: [babbitt@cgl.ucsf.edu](mailto:babbitt@cgl.ucsf.edu) prior to April 30, 1997. For more information about the Department of Pharmaceutical Chemistry, visit the web site at <http://www.pharmchem.ucsf.edu/index.html>. The University of California, San Francisco is an Affirmative Action/Equal Opportunity Employer.

## CONFERENCE

### FIFTH INTERNATIONAL CONFERENCE STREMAH 97 25–27 JUNE 1997, SAN SEBASTIAN, SPAIN STRUCTURAL STUDIES, REPAIRS AND MAINTENANCE OF HISTORICAL BUILDINGS

The Wessex Institute of Technology (United Kingdom) and the University of the Basque Country, Applied Physics Department, Architecture School (Spain) organise the STREMAH 97 Conference. The meeting brings together scientists, architects, engineers, and building surveyors interested in Structural Studies, Repairs and Maintenance of Historical Buildings (STREMAH). C. A. Brabbia and S. Sánchez Beitia are the Conference Chairmen. More information: <http://www.wessex.ac.uk>; Telephone: +44(0)1703293223; FAX: +44(0)1703292853. Conference Secretariat: Wessex Institute of Technology, Ashurst Lodge, Ashurst, Southampton, SO40 7AA, United Kingdom.

## GRANTS

### GRANTS AVAILABILITY NOTICE

The Children's Brain Tumor Foundation announces the availability of GRANTS in 1997 of up to \$50,000 per year, for up to two years. Grants are for basic laboratory research on pediatric brain and CNS tumors and are restricted to institutions within the greater New York City area (100 mile radius). A one-page pre-application form is required with a deadline of April 15, 1997. Invited proposals are due August 1, 1997. For further information, contact: Children's Brain Tumor Foundation, 274 Madison Avenue #1301, New York, NY 10016. Telephone: 212-448-9494; FAX: 212-448-1022.

## TENURED POSITION AVAILABLE AT THE INTRAMURAL RESEARCH PROGRAM NATIONAL INSTITUTE ON DRUG ABUSE

The National Institute on Drug Abuse (NIDA), Intramural Research Program (IRP), is recruiting for leadership of a new branch focusing on animal models of drug abuse and addiction. Candidates should have a record of accomplishment using behavioral models to extend our understanding of brain reward mechanisms. Experience with one or more of the following models is critical: (1) Intravenous drug self-administration, including acquisition, maintenance, choice, and reinstatement studies; (2) conditioned place preference or conditioned taste aversion; (3) drug interactions with brain stimulation reward; (4) intracranial drug self-administration; or (5) conditioned reinforcement. The Branch Chief will utilize such behavioral models in interdisciplinary studies of the brain mechanisms of addiction together with in vivo cellular neurobiological techniques. The position is located in Baltimore, MD, and offers a competitive salary up to \$148,400 plus full Federal benefits including retirement plan, thrift savings plan, health and life insurance, and annual and sick leave. Interested candidates should submit a CV with bibliography, statement of research interest and goals, and three letters of reference to: **NIDA/IRP, P.O. Box 5180, Baltimore, MD 21224, Attn: Morgan DuBrow, Personnel Unit, Bldg. C, Room 252. Applications must be received by close of business on May 30, 1997. Applications from women and minorities are encouraged. NIDA is an Equal Opportunity Employer.**

### Dean of Academic Affairs Georgetown University Medical Center

Georgetown University, a Catholic, Jesuit institution located in Washington, D.C., invites applications and nominations for the newly restructured position of Dean of Academic Affairs for the Medical Center.

For the first time at Georgetown, the Dean will oversee the entire spectrum of medical education, from undergraduate through graduate and continuing medical and professional education. The Dean of Academic Affairs is responsible for the design, planning, organization, operations, and evaluation of Georgetown University's entire medical education enterprise. In addition, the Dean of Academic Affairs administers undergraduate medical admissions, student financial aid, medical student affairs, faculty development and promotion, and academic records. The Dean of Academic Affairs also oversees the educational program at affiliated medical centers and practice sites and other related ancillary and educational support services such as the medical library, educational media, and medical informatics. Assuring the continuation of external educational accreditations of the School of Medicine and Medical Center by the LCME, ACGME, and ACCME are other important decanal responsibilities.

The Dean of Academic Affairs is appointed by the University President upon the recommendation of the Executive Vice President for Health Sciences and reports to the Executive Vice President for Health Sciences. The Dean of Academic Affairs will maintain liaison with the Dean of Research and Graduate Education, the Dean of the School of Nursing, the Dean of the Graduate School, and the leadership in the clinical services of the Medical Center.

The *ideal* candidate will have an M.D. or similar terminal degree. In addition, the individual should possess outstanding academic and scholarly credentials and considerable proven leadership experience in academic medicine. Candidates should have a demonstrated understanding of curriculum design and evaluation and be knowledgeable about innovations in medical education and interdisciplinary studies in the health sciences. Candidates should be sensitive to the Catholic tradition in health care.

Georgetown encourages applications from qualified women and minorities. Nominations, inquiries, and applications (with curriculum vitae and the names and addresses of three professional references) will be treated in confidence and should be sent to: **Kenneth L. Dretchen, Ph.D., Chairman, Search Committee for the Dean of Academic Affairs, c/o Office of the Dean of Research and Graduate Education, 3900 Reservoir Road, N.W., NW 103 Med-Dent, Washington, DC 20007.**

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You will be responsible for supporting drug discovery research through non-radiolabeled in vitro investigations of hepatic and intestinal biotransformation. These studies will provide early stage input to chemical synthetic strategy and support oral drug delivery investigations.

We seek a PhD with 3 years post-doctoral or two years industrial experience. Analytical expertise with HPLC and experience in mass spectrometry is required. Facility with both whole and broken cell preparations is essential; cell/organ culture is desirable. Excellent communication skills are essential.

With over 52,000 employees worldwide and more than \$11 billion in annual sales, we've established ourselves as a respected global business and innovative leader in the changing health care industry. For consideration, please send your resume with salary history to: **Abbott Laboratories, Job #96-LAM-2496, D583, AP9A(LL), 100 Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.**

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## VIROLOGIST/ANTIVIRAL DRUG DISCOVERY

SmithKline Beecham Pharmaceuticals, a global leader in anti-infectives, has a challenging opportunity for a scientist to participate in the evaluation and selection of lead compounds as antivirals, and to explore new molecular targets for herpes viruses. You will work in a dynamic environment, as part of a multi-disciplinary drug discovery team. Your creativity, familiarity with current scientific literature and range of technical abilities will be valuable assets.

The selected candidate will possess a Bachelor's or Master's in Virology, Molecular Biology or related field. Applicants must have the skill to apply molecular and viral techniques, design/conduct successful experiments, keep accurate records and perform data analysis. A minimum of two years' laboratory experience beyond coursework is required. Previous experience in herpes virology is strongly preferred.

SmithKline Beecham offers a competitive compensation/benefits package as well as the opportunity for growth in a scientifically intense environment structured on creativity, teamwork and commitment. Qualified candidates should send CV and three references to: **SmithKline Beecham Pharmaceuticals, Job Code S6-0204, P.O. Box 2645, Bala Cynwyd, PA 19004. For more information on SmithKline Beecham, see our Web site at <http://www.sb.com>. We are an Equal Opportunity Employer, M/F/D/V.**

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**PRECLINICAL DEVELOPMENT  
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IntraBiotics is a rapidly emerging, biopharmaceutical company focused on the development of novel antimicrobials to treat infectious diseases that are not adequately managed by current drugs. Clinical trials of the company's first product, an antimicrobial peptide, will start early 1997; additional compounds are in preclinical development. The following openings exist for experienced candidates:

**Preclinical Development Scientist:** Ph.D. level scientist with 2-4 years experience in the design and execution of pharmacology and pharmacokinetic studies. Will work closely with chemistry group in developing the SAR of novel antimicrobials. Candidate must have experience with anti-infective models; experience with peptides preferred.

**Analytical Chemistry Sr. Research Associate:** BA or MS level chemist with 5-8 years pharmaceutical industry experience in analytical methods development. HPLC and GMP experience essential; familiarity with peptide methods a plus. Will work as member of pharmaceutical development group on preclinical and clinical products.

**Quality Assurance Manager:** BS or MS level in chemistry or pharmacy with a minimum 7 years experience in pharmaceutical industry. Responsibilities include managing activities to assure adherence of all CMC operations to CGMP standards. Must have excellent verbal and written communication skills.

**Microbiology Research Associate:** BS or MS level microbiologist with 3+ years relevant experience. Responsibilities include evaluation of antibacterial and antifungal compounds using a variety of microbiological and molecular biological techniques. Background in bacterial genetics/molecular biology and antimicrobial agents desired.

The successful candidates will have strong motivation to use their substantial experience in the rapidly changing environment of a start-up company. The ability to work effectively as part of an interdisciplinary team is key to all positions. IntraBiotics, which is located in the San Francisco Bay Area, offers significant equity participation and competitive salaries and benefits.

Please send resume/curriculum vitae in confidence to:

**Human Resources  
IntraBiotics Pharmaceuticals, Inc.  
816 Kifer Road  
Sunnyvale, CA 94086**



INTRA BIOTICS

**NEUROSCIENCE**

**NeuralStem  
Biopharmaceutical Sciences**

*NeuralStem is a dynamic new company founded to discover and develop a new generation of therapeutics for Central Nervous System (CNS) diseases based upon its proprietary CNS stem cell technology. We have immediate openings for highly motivated individuals keen to participate in the earliest and most exciting stage of this commercial venture.*

**Senior Scientist - developmental neurobiologist**

The successful applicant will be engaged in a team effort to discover novel molecules responsible for directing neuronal differentiation, maturation, synaptogenesis, and phenotype selection *in vitro*. Ph.D. and 0-5 years of postdoctoral training in the broad area of developmental neurobiology with expertise in neural cell culture is required. Working knowledge of standard molecular biology such as *in situ* hybridization and/or neuroanatomy will be an asset.

**Senior Scientist - molecular biologist**

You will be responsible for overseeing molecular biology projects such as constructing subtractive cDNA library, subcloning, DNA sequencing, and designing protein overexpression systems. Ph.D. and 3-5 years of postdoctoral training is required. Extensive experience in making viruses for gene therapy is highly preferred.

**Associate Scientists - BA/MS - two positions**

We are seeking two committed individuals with at least 3 years of tissue culture experience. Experience in immunohistochemistry and PCR is highly desirable.

*NeuralStem is a start-up biotechnology company located in Maryland, 20 minute distance from heart of Washington, DC, NIH, and Baltimore and Johns Hopkins University. We offer excellent salary, complete health insurance, and significant equity participation. Please send resumes in confidence to: Human Resources, NeuralStem Biopharmaceutical Sciences, 6701 Democracy Blvd., Suite 300, Bethesda, Maryland 20817, or fax to 301-571-9326. Equal Opportunity Employer.*

**COURSES & TRAINING**

**Biomedical Supercomputing Initiative**

**1997 Biomedical Supercomputing Workshops**

**Simulations in Computational Neuroscience** **June 11-14**  
*Application Deadline: May 9*

**Computational Macromolecular Crystallography** **June 25-28**  
*Application Deadline: May 29*

**Nucleic Acid and Protein Sequence Analysis** **July 20-25**  
*Application Deadline: June 23*

*Direct All Inquiries to:*  
Nancy Blankenstein  
Pittsburgh Supercomputing Center  
4400 Fifth Avenue Suite 230C  
Pittsburgh, PA 15213  
biomed@psc.edu or 412-268-4960

**APPLY TODAY!** Application forms and information on level of support provided:  
<http://www.psc.edu/biomed/workshops.html>

**GRANT**

**NEUROSCIENCE  
The EJLB Foundation  
Scholar Research Programme**

The EJLB Foundation awards each year up to six (6) grants for research projects in all areas of neuroscience that pertain directly or indirectly to schizophrenia and mental disease.

Eligibility for such grants is restricted to young scientists who are pursuing an independent research career and have given evidence of having significant potential. It is also a requirement that these scientists (i) have earned an M.D. and/or a Ph.D. degree; (ii) have completed their post-graduate training; and (iii) have been admitted after **June 15, 1992** as faculty members of a leading university, or an affiliated non-profit research center, in Canada or elsewhere in the world. Each grant of CAN\$300,000 is disbursed over three (3) years and is non-renewable. The next closing date for receipt of letters of intent is **May 30, 1997**.

Full details regarding this programme and required letter of intent forms may be obtained from:

**The EJLB Foundation  
1350 Sherbrooke Street West  
Suite 1050  
Montréal, Québec  
CANADA H3G 1J1  
Fax (for inquiries only 514-843-4080).**

**AWARD**



**APA RESEARCH AWARDS**

**Application Deadline: June 1, 1997**

The American Paralysis Association (APA) is accepting proposals for one-year awards at a maximum funding level of \$50,000 (including direct and indirect costs, 10% for the latter). Program goals are to: (1) encourage promising new investigators to undertake research on regeneration and functional recovery, particularly as relates to spinal cord injury; (2) encourage scientists established in other fields to transfer their expertise and focus to spinal cord research; and (3) enable investigators with novel ideas to develop the pilot data needed to apply for larger awards from the National Institutes of Health and other funding sources. These APA awards may be used to provide support to well-established investigators as well as to qualified postdoctoral scientists. Proposals are accepted from American and foreign investigators and requests for continued support will be considered, but reviewed as competing renewal applications. For program guidelines and application forms, call APA at 201-379-2690.



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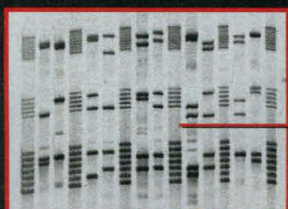
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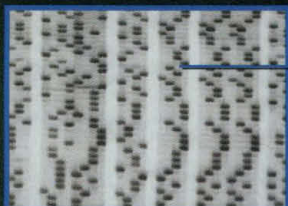
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**Dr. Thomas Waldmann, M.D.**

An Intramural Research Training Award (IRTA) or Medical Staff Fellow position is available for an individual to investigate new therapeutic approaches directed toward the IL-2/IL-15 receptors and their signaling pathways. This approach exploits the observation that the high affinity IL-2R is not expressed by normal cells, but is expressed by select leukemic cells, as well as T-cells involved in allograft rejection and autoimmunity. A murine model of IL-2R expressing Adult-T-Cell leukemia (ATL) was established by introducing cells from an ATL patient into SCID-NOD mice. Following serial transfer of these cells, the animals developed grossly enlarged spleens and leukemia of ATL cells that retained the phenotype and HTLV-I integration pattern of the patient's ATL leukemia. Agents showing promise in this murine model may move forward into clinical trials. Humanized antireceptor antibodies armed with alpha-emitting radionuclides, and JAK-3 kinase-directed inhibitors, are some of the agents under investigation. Applicants should have completed an M.D. or Ph.D., and be highly motivated individuals interested in joining a progressive Clinical Research Program at the National Cancer Institute. Applications should be sent to **Jean Decker, Bldg. 10 Room 4N115, NCI/NIH Bethesda, MD 20892-1374. NIH is an Equal Opportunity Employer.**



**Postdoctoral Positions in  
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Receptors**

Positions available to study G protein-coupled receptor structure, function, and regulation. Seeking candidates experienced in molecular biology, biochemistry, or cell biology to work on the molecular basis of ligand recognition, signaling, and receptor trafficking, and the molecular interactions and conformational changes which mediate these processes. Applicants should be permanent U.S. residents or citizens, and have a Ph.D. or M.D. degree. Send resume and three letters of reference to: **Laurence J. Miller, M.D., Department of Biochemistry/Molecular Biology, Mayo Clinic, Center for Basic Research in Digestive Diseases, Rochester, MN 55905.**

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# ASSOCIATE DIRECTOR

## Analytical Sciences

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Please send resume and cover letter to: **ALZA Corporation, Human Resources Dept., Attn: Job# SC0314-DM, 950 Page Mill Rd., P.O. Box 10950, Palo Alto, CA 94303-0802.** Fax: (415) 494-5656. TDD: (415) 494-5003. Or call our Job Hotline at (415) 494-5319.



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### Research Positions Available Center for Marine Biotechnology and Biomedicine

*An innovative research center involving the Scripps Institution of Oceanography, the UCSD School of Medicine, and the basic sciences at the University of California, San Diego*

The Center for Marine Biotechnology and Biomedicine (CMBB), a research component of the Scripps Institution of Oceanography (SIO), University of California, San Diego (UCSD), invites applications for two career research positions: one at the Assistant Research level and one at a more senior level. We seek applicants in all fields of the biological, biochemical, chemical, pharmacological, and physiological sciences who will conduct biomedical and/or biotechnological research on marine organisms.

Candidates must hold a Ph.D. and have demonstrated their ability to carry out high quality research. Salary is commensurate with experience and based on the University of California salary scale. Research scientists at CMBB generally derive the majority of their salaries from extramural grants. Appointments at the Assistant Research level will, however, be provided with 12 months salary, paid over 2-5 years from Institutional funds. In these career track positions, SIO will provide base salary support of 25% upon promotion to the Associate Research rank and 50 % support upon promotion to Full Research, as a supplement to extramural support obtained by the candidate (support subject to the availability of Institutional funds). The successful candidate will be expected to establish a vigorous, extramurally funded research program.

Applicants should send a CV listing three references, up to five selected reprints, and a one-page statement of research interests, emphasizing future plans to study marine organisms, to **Dr. William Fenical, Director, Center for Marine Biotechnology and Biomedicine, Scripps Institution of Oceanography, University of California, San Diego, 9500 Gilman Drive, mail code 0204, La Jolla, CA 92093-0204.** Closing date for applications is 1 June, 1997. *UCSD is an Equal Opportunity, Affirmative Action Employer.*



## FACULTY POSITIONS

### Department of Microbiology and Immunology

#### Indiana University School of Medicine

The Department of Microbiology/Immunology is expanding and seeking motivated candidates with Ph.D., M.D., or M.D./Ph.D. degrees for tenure-track Assistant and Associate Professor positions. Research areas of interest to the department include:

- Cellular and Molecular Immunology
- Gene Transfer/Gene Therapy/Viral Vectors
- Retrovirology
- HIV Pathogenesis; Bacterial Sexually Transmitted Diseases
- Cell Cycle Control; Apoptosis

New faculty members will pursue independent programs in original basic research, secure external grant support, and participate in teaching graduate and medical students. A history of past and present grant support would be advantageous.

A competitive start-up package is available including new laboratory space. The environment is highly interactive and productive with close ties on campus to other Basic Science and Medical Departments and to Research Centers, including the Walther Oncology Center, the Wells Center for Pediatric Research, the Indiana University Cancer Center, the Midwest Sexually Transmitted Disease Center and the AIDS Clinical Trial Group. Some recruitments will be joint with other Departments and Centers on Campus. Faculty rank will be determined by academic credentials and experience.

Interested candidates should send their curriculum vitae, description of research goals and names, addresses, phone and fax numbers of at least three references to:

**Hall E. Broxmeyer, Ph.D.**

**Chairman and Professor**

**Department of Microbiology and Immunology**

**Scientific Director, The Walther Oncology Center**

**Indiana University School of Medicine**

**635 North Barnhill Drive, Room 255**

**Indianapolis, IN 46202-5120 USA**

*Indiana University is an Affirmative Action/Equal Opportunity Employer.*



### Postdoctoral Research Fellow Department of Biochemistry and Molecular Biology Tumor Biology Program Mayo Clinic and Mayo Foundation

A postdoctoral research fellowship is available to study the molecular biology of myofibroblasts and carcinoma cell-stromal interactions which contribute to human breast cancer progression (see *Biochemistry* 34:12355-12362, 1995; *J. Biol. Chem.* 271:24278-24285, 1996; and *Cancer Res.* 56:5063-5070, 1996). Individuals holding the Ph.D. or M.D. degree with a strong background in biochemistry and/or molecular biology are invited to apply. Please send curriculum vitae and three letters of recommendation to:

**Dr. Michael J. Getz**

**Department of Biochemistry and  
Molecular Biology**

**Tumor Biology Program**

**Mayo Clinic and Foundation**

**Rochester, MN 55905**

**Fax: (507) 284-3383**

**Email: [getz.michael@mayo.edu](mailto:getz.michael@mayo.edu)**

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## MEDICAL UNIVERSITY OF SOUTH CAROLINA

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#### and

### DIRECTOR OF A PROGRAM IN NEUROSCIENCES

The MEDICAL UNIVERSITY OF SOUTH CAROLINA has initiated a search for a Chairperson to lead its Department of Physiology. This individual will be charged with, and given substantial resources, faculty positions and space to create a strong scientific base for all University efforts in the NEUROSCIENCES. All interested candidates with a vision for implementing such a program within the context of a Physiology Department in a major academic medical center are encouraged to apply regardless of their specific area of neuroscience research. The Medical University is actively expanding its research base with extensive renovation of current research space, the completion of a major new research building now being occupied and additional construction for neuroscience laboratories now being designed and to be completed in 1999. There are outstanding opportunities to recruit new primary and jointly-appointed faculty into a well-respected educational and research environment surrounded by excellence in sensory neurosciences, the addiction neurosciences, and glial-neuronal communication. A new Chairman has been chosen in Neurosurgery and a search for a Chairperson of Neurology will begin later this year, thus providing additional opportunities for collaborative initiatives. The academic environment provides outstanding opportunities for new interdisciplinary programs in cardiovascular biology, cancer, molecular endocrinology, substance abuse and structural biology. There is an expanding array of Research Resources on campus including electron and confocal microscopy, DNA/protein sequencing and synthesis, transgenic services, NMR and mass spectrometry. Candidates for this position should have: 1) a Ph.D. and/or M.D. degree; 2) a distinguished record of scholarly activity; 3) a nationally recognized research program that can take advantage of and build upon the research strengths and interests of the University; and 4) the leadership skills to create and evolve a comprehensive academic research, training and educational program in the neurosciences, while meeting the responsibilities of a Health Sciences University Department of Physiology. Interested individuals should submit a letter of application, a curriculum vitae which includes a summary of their research activities, and at least three references to: **Harry S. Margolius, M.D., Ph.D., Chairman, Physiology and Neurosciences Search Committee, College of Medicine Dean's Office, 601 Clinical Science Building, Medical University of South Carolina, 171 Ashley Avenue, Charleston, South Carolina 29425-2201.** Nominations and applications should be submitted by June 1, 1997.

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## Molecular Biology/Microbiology



### Midwest Research Institute Biotechnology Positions

Midwest Research Institute (MRI), an independent not-for-profit research and development organization, is seeking skilled and highly motivated scientists for several positions in our rapidly expanding Biotechnology Group, located at our headquarters facility in Kansas City, Missouri.

All positions require degrees in Microbiology or Molecular Biology and U.S. Citizenship. Experience in bioaerosols, environmental microbiology, pathogenic microbiology (BSL 3), virology, microbial detection systems, flow cytometry and/or GLP/GMP desired.

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The successful candidate will join our fungal genetics group in an effort in pioneering genetic technology of plant pathogenic fungi. A Ph.D. or Masters degree with at least 4 years of relevant research experience including current molecular biology techniques (PCR, cloning, library construction, gene expression, mutant construction and analysis) and genetics of filamentous fungi is required.

**Research Scientist (Job 9710) and Postdoctoral Associate (Job 9711) in Molecular Biology and Metabolic Pathway Engineering**

The successful candidates will be members of our Combinatorial Biochemistry team and will investigate molecular and biochemical aspects of polyketide and/or cyclic peptide biosynthesis. Projects include the elucidation of polyketide biosynthesis and engineering of the biosynthetic gene clusters. A strong doctoral or postdoctoral background in molecular biology, biochemistry, microbiology or genetics is required.

**Transformation Scientist (Job 9712)**

The successful candidate will be responsible for delivering project objectives related to creation of transgenic crop plants. The ability to develop new transformation and selection methods is critical. A substantial amount of laboratory work is required. Experience in transformation of a variety of species, including maize and wheat, an MS degree plus 4 years OR a Ph.D. plus 2 years additional relevant experience is required.

**Postdoctoral Associate in Fungal Genetics (Job 9718)**

Major areas of research interest include: development of genetic methodology needed for molecular manipulation of plant pathogenic fungi, identification and characterization of genes and gene products which play critical roles in the life-cycle of important plant pathogenic fungi. The successful candidate should have a strong background in current molecular techniques and microbial genetics.

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Fellowship awards are given for up to three years and are based on merit, recommendation and the promise of a productive career in biomedical research. Stipends are highly competitive.

Applicants should provide a curriculum vitae, including a brief description of their research interests, and three references. These should be forwarded to: **Academic Programs, St. Jude Children's Research Hospital, Dept. (SC321/PD-BCS), 332 North Lauderdale, Memphis, TN 38101. Ph: 901-495-2750.**

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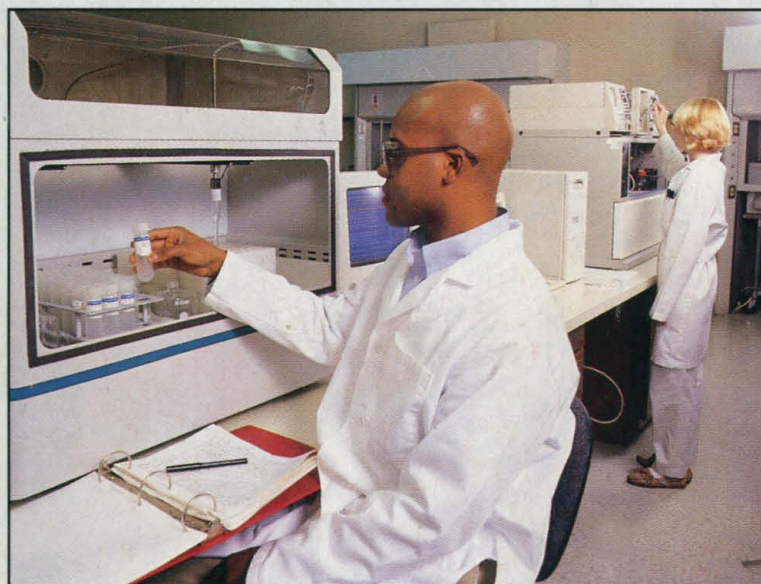


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