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NEW PRODUCTS

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particularly useful. Limathon's programs provide numerous functions for tracking column use for liquid chromatography (LC) laboratories. This includes support for several lab industry standards (GLP/GMP, ISO 9000, or NAMAS).

HPLC Column Manager version 5.0 (HCM) provides an audit trail on all LC columns used in a laboratory. Records include inventory, log reports, suggested use, restrictions on use, user identification, dated performance history, and validation test results. Column validation options include standards for peak retention times, resolution, theoretical plates, and efficiency (see figure). HCM will recommend a column for a separation based on user-defined criteria, and the software includes a troubleshooting module. The program contains links to extensive online help and reference information, including a chromatography dictionary, solvent miscibility table, and ChromView.

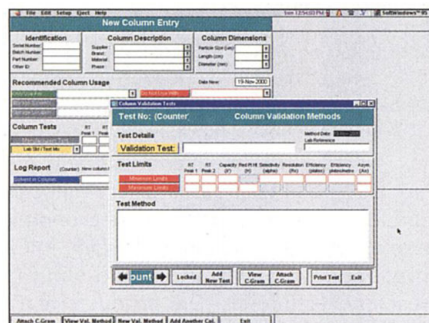
ChromView data sets are accessible in HCM through a utility called ChromSearch. HCM is supplied with 500 data sets, and users can purchase additional sets as needed. Currently about 5000 ChromView data sets are available as data upgrades to the system. Chromatographers not requiring the column management functionality can purchase a product called ReCAP 5000, which contains all the ChromView data sets plus a comprehensive reference guide to almost 2000 HPLC column materials.

A separate product, FastCAM, allows chromatographers to store and retrieve their own chromatograms and applications in the ChromView format. Limathon also provides a ChromView service through which older, printed chromatograms and application conditions can be transferred to a database for a fee of about £10 to £25 per plot, depending on the number of chromatograms.

Although Limathon's products in their present form span the wide-ranging needs of chromatographers, several design improvements could still be made. The first would be to integrate all of the programs into a single, comprehensive application, thus eliminating the need to switch from one program to the other. This would reduce the considerable confusion from the overlapping functions of the programs as they presently exist. Another improvement would be simple, automated entry of information via an interface with a column detector. In its current configuration, column calculations must be entered by hand. In situations

COLUMN TRACKER

The Limathon products, HPLC Column Manager 5.0 and ChromView are applications (Windows 95, 98, or NT compatible) designed to help laboratories manage chromatographic columns and eluents for separation of components. Larger operations that need to adhere to strict standards for column use and performance will find these programs



requiring column certification, it would be desirable to have the calculations performed automatically to avoid manipulation and error. Last, the rather terse online help and printed documentation should be rewritten to improve clarity and understanding. A better-designed tutorial would also be useful.

—Kevin Ahern

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CHROMATOGRAPHY DATA SYSTEMS INTERFACE

LimsLink^{CDS} is software designed to interface output from any chromatography data system (CDS) to any laboratory information management systems (LIMS), an application that provides a unique set of challenges because of the volume of data involved and the variety of programs, file formats, and interfacing requirements. This program communicates bidirectionally between any CDS and any LIMS, providing a seamless link. The program consists of the addition of a CDS Communication Module to the LimsLink 3.0 platform.

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Metabolynx 3.5 is a metabolite screening and identification application manager for Micromass's Global Mass-Informatics system, MassLynx 3.5. Automated liquid chromatography-mass spectroscopy (LC-MS) and LC-MS-MS provide the classic tools to explore metabolic fate and the kinetics of biotransformations, but data interpretation

CONTINUED ON PAGE 506

has been a rate-limiting step. MetaboLynx, however, can rapidly detect the peaks in an LC-MS data file resulting from in vitro and in vivo biotransformation. Its automated data processing can lead to rapid metabolite identification. Major features of MetaboLynx include examination of LC-MS data for targeted metabolites, correlation of metabolized sample data with a control sample, pinpointing of untargeted biotransformations, generation and execution of method files for automated MS-MS verification of metabolite assignments, integration of chromatographic peaks for semiquantitation, and electronic reporting of results.

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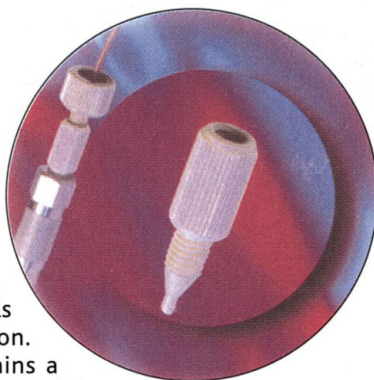
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Isolation Technologies

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PRECOLUMN FILTER

The ColumnSaver precolumn filter requires no tools or assembly for installation. The disposable unit contains a 0.5- μ filter and can be tightened by hand to 5000 psi. When there is an increase in back pressure, it is time to remove and replace the filter. No bulky fittings interfere with installation.

Dionex

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COLUMNS FOR PROTEIN VARIANT RESOLUTION

The ProPac WAX-10 (weak anion exchange) and SAX-10 (strong anion exchange) columns provide high-resolution analysis of proteins with small differences in charge and structure. The ProPac resin makes use of a novel, surface-controlled polymerization technology. The packing substrate is a highly cross-linked core (which makes the packing solvent-compatible) grafted with a neutral, very hydrophilic layer to eliminate hydrophobic interactions with proteins. This layer is then grafted with a polymer layer of controlled thickness that contains the anion-exchange functional group. These columns have a moderate capacity and are stable over a pH range of 2 to 10.

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Eichrom Technologies

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630-963-0320 or
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LITERATURE

Reasons to Make It MICRA HPLC is a brochure that describes three lines of high performance liquid chromatography columns. MICRA-Gold is the manufacturer's standard line, designed for the analysis and purification of proteins, peptides, polymers, basic/acidic molecules, and pharmaceutical compounds. MICRA-Silver offers economical benefits to methods development and preparative work. MICRA-Platinum is for high throughput analysis and liquid chromatography-mass spectroscopy techniques. The products feature the manufacturer's SynChropak bonding chemistry and NPS particle technology.

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POSITIONS OPEN

CANADA RESEARCH CHAIRS IN MOLECULAR BIOLOGY AND CHEMICAL AND STRUCTURAL BIOLOGY Faculty of Science, University of Victoria

The Faculty of Science at the University of Victoria invites applications from outstanding individuals to be nominated for two Canada Research Chairs. One Chair is in genomics and the other is in chemical and structural biology. The genomics Chair may be in an area such as the analysis of gene expression in disease or during normal development, the use of model organisms for studying neurobiology or developmental genetics, or gene expression in response to environmental perturbations. The other Chair will be in an area of chemical and structural biology related to the study of macromolecules such as ligand-receptor interactions, the analysis of structure, the design and testing of catalysts, molecular modeling, or the study of forces involved in functions at the atomic level. Outstanding candidates in closely related areas may also be considered. One position is available at the "Tier One" level for a senior, internationally recognized Scientist. The other is at "Tier Two" for an exceptional Scientist at an earlier career stage. The successful candidates will be provided with tenured or tenure-track appointments in an appropriate department (Biochemistry and Microbiology, Biology, or Chemistry). They may join an emerging group in chemical and structural biology, which includes researchers in the Departments of Chemistry, Biochemistry and Microbiology, and Biology. They may also participate in the Genome Canada initiative and can expect support from the University for application to the Canada Foundation for Innovation. It is anticipated that the successful candidates may obtain their major funding from the Canadian Institutes for Health Research. Applications are invited without regard to nationality or location. Applicants should submit curriculum vitae and a statement of research interests and plans and should arrange for four letters of recommendation to be sent to:

**The Dean of Science
University of Victoria
P.O. Box 3045 STN CSC
Victoria, BC V8W 3P4 Canada**

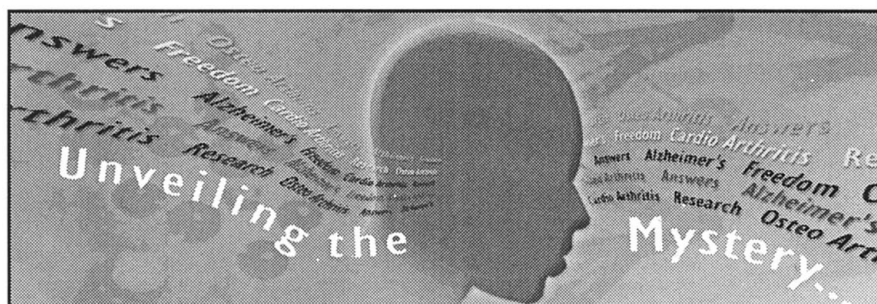
Review of applications will begin March 1, 2001, and will continue until the positions have been filled. Information about the university and the Faculty of Science can be found at [website: http://web.uvic.ca/sciweb/](http://web.uvic.ca/sciweb/). Information about the Canada Research Chairs Program is available at [website: http://www.chairs.gc.ca/english/new/index.html](http://www.chairs.gc.ca/english/new/index.html). The University of Victoria is situated in one of the most beautiful natural settings in the world and has easy access to Vancouver and Seattle, Washington. The University of Victoria is an Equity Employer and encourages applications from women, persons with disabilities, visible minorities, and aboriginal peoples.

FACULTY POSITIONS

The Department of Health Sciences at East Tennessee State University ([website: http://www.etsu.edu/cpah/hsci/](http://www.etsu.edu/cpah/hsci/)) seeks candidates for a tenure-track position in microbiology at the **ASSISTANT PROFESSOR** level beginning August 1, 2001. The position requires teaching undergraduate and graduate courses in the areas of biochemistry and bacterial physiology and development of a fundable research program. Ph.D. is required. University-level teaching experience is preferred. Screening of applicants will begin in February 2001 and continue until the position is filled. Salary will depend on qualifications and experience. Send curriculum vitae, a description of teaching/research interests, and the names of three references to:

**Dr. Michael T. Gallagher
Professor and Chair
East Tennessee State University
Department of Health Sciences
P.O. Box 70,673
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**BIOINFORMATICS/
COMPUTATIONAL
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The Albert Einstein College of Medicine invites applications for one or more tenure-track appointments. The successful candidates will be part of a significant expansion of expertise in Bioinformatics and Computational Biology at the institution and contribute to the emerging research programs in structural and functional genomics, proteomics, and bioinformatics. Appointments are expected at the Assistant and Associate Professor level. Applicants must have a Ph.D. and are expected to have Post-doctoral research experience in relevant biological areas.

The College of Medicine provides nationally competitive start-up packages for qualified faculty applicants. The applicant will be expected to build and maintain a vigorous, independent research program with excellent opportunities for active collaborations within the institution.

Applicants should send a CV, a 1-2 page statement of research interests, and arrange to have 3 letters of reference sent to: **Ms. Julie Herrick, Assistant Dean, Albert Einstein College of Medicine, Jack & Pearl Resnick Campus, 1300 Morris Park Ave, Belfer Building-Room 312, Bronx, NY 10461; Email: herrick@aecom.yu.edu** EOE



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A position is currently available in the Pharmacology Department for an Electrophysiologist to work in a highly interactive, dynamic environment. The primary job responsibility will be the evaluation of novel compounds on action potential configuration using in vitro cardiac tissue preparations. Other responsibilities include working in a team environment helping to assess the safety profile of prospective drug candidates, designing, conducting and evaluating experiments on electrical activity from isolated cardiac tissue, recording intracellular action potentials, and reporting an interpreting effects of compounds on action potential configuration.

The successful candidate will have received a B.S./M.S. or Ph.D. in Physiology, Pharmacology, or related discipline, and have 3-5 years of relevant laboratory experience. The candidate is expected to possess excellent verbal and written communication skills as well as a strong academic record. **Job Code: AD-SCI/RDioioo**

At our Ridgefield, CT campus, we offer a dynamic, collaborative environment where insight, inspiration and commitment create opportunity on an entirely new scale. For immediate consideration, please email your resume and salary history to: bipi@bi-careers.com; OR send to: Boehringer Ingelheim Staffing Center, PO Box 534, Waltham, MA 02454-0534. Including the Job Code in your cover letter or subject line will help us to expedite your request and avoid delays in routing your resume. Please, principals only. Unsolicited agency referrals will not be accepted. We are a proud Equal Opportunity Employer and are committed to offering a healthy, non-smoking work environment, M/F/D/V.




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In Vivo Pharmacologist

Utilizing your proven experience with in vivo animal pharmacology models, you will work as a member of a multidisciplinary team in developing animal models of male/female fertility to support early proof of concept studies of lead candidates. Requires a BS with 3-5 years' experience or MS with 2-3 years' experience. Scientists with a Ph.D. or equivalent coupled with an excellent understanding of current molecular pharmacological techniques and functional pharmacological assays and their application to drug discovery are also strongly encouraged to apply.

Research Associate

Research associate positions available for BS/MS in Biological sciences with 1-3 years' experience in molecular biology, cell biology and biochemistry. The successful candidate(s) will work as a member of a multidisciplinary team in our new exploratory biology group, focused on the identification and validation of new drug targets in reproductive health and fertility. Experience in signal transduction is desirable.

Signal Transduction

This important position is for a scientist with extensive experience in signal transduction. The successful applicant will work within a new project to identify the mechanistic role of genes critical for spermatogonial stem cell function. Preference will be given to candidates with a thorough knowledge of kinase- and phosphatase-based regulatory pathways as well as a broad background in the molecular, biochemical and cell biological techniques essential to study gene function in selected signal transduction pathways. The successful applicant will hold a Ph.D. with 0-3 years' experience in signal transduction research.



In Vitro Pharmacologist

Work as a member of a multidisciplinary team to support high throughput screening and early lead profiling. Requires experience with assay development for HTS and cell-based assays, proficiency in designing and performing receptor binding, spectrometry, fluorometry, reporter gene and signaling assays. Knowledge of GPCRs and nuclear receptors preferred. Qualified candidates will have a Ph.D. and 2-5 years' experience.

Lead Discovery Programmer/Analyst

This position will support the design and implementation of software solutions to facilitate the drug discovery process. Responsibilities will include workflow analysis and optimization through the design and implementation of software solutions. Experience in analysis and data mining of high throughput biochemical, cell or functional assay data is highly desired. Programming skills needed include one or more of the following: C/C++, VB, Java, Pascal, SQL, PL/SQL. Database design and development with Oracle, Sybase (aka MS-SQL Server) or MS-Access experience preferred. The position requires a minimum BS/MS in the life sciences or chemistry with proven software analysis/development skills.

Bioinformatics Scientist

As part of a growing bioinformatics group, we are looking for a highly motivated individual to help support our projects in functional genomics and reproductive biology. Candidates should be proficient in bioinformatics tools and accessing databases. A background that includes life sciences and computer programming (C/C++, Perl, Java, SQL) is important. Experience in differential gene expression analysis, protein sequence analysis and/or design and implementation of relational databases would be a plus. Strong communication skills will be essential for interacting with other scientists.

Functional Genomics Scientist

The individual in this key position will develop and apply viral vector gene transfer and expression technologies. He/she will work within ongoing genomics and genetic based biology projects in reproductive health and fertility. Applicants will hold a Ph.D. in a relevant discipline and have several years of experience in the development and use of viral vectors for gene expression in primary culture models. Preference will be given to scientists expert in lentiviral systems. The successful applicant will have the essential personal and human skills to lead a small technology group and facilitate excellent team interactions.

If your experience corresponds to the above requirements, please submit your resume to:

Serono Reproductive Biology Institute, Inc.
Attn: Human Resources, 280 Pond Street
Randolph, MA 02368; Fax: 781-986-7873
E-mail: resumes.srbi@serono.com

Please reference the position title for which you are applying on your cover letter.

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**MAYO CLINIC
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AND
MOLECULAR BIOLOGY**

The Department of Biochemistry and Molecular Biology at Mayo Clinic-Rochester (<http://www.mayo.edu/mgs/bmb/>) announces openings for faculty positions at the assistant and associate professor level. Qualified individuals are expected to initiate and maintain an outstanding research program and to contribute to educational activities in Mayo Graduate School and Mayo Medical School. The department is seeking to supplement existing strengths by recruiting faculty members who are interested in the following areas:

Biochemistry and Structural Biology, with a focus on exploring, predicting and designing macromolecular interactions, including protein-protein, protein-nucleic acid, and receptor-ligand complexes. Individuals with training in structural biology techniques such as NMR spectroscopy, computational structure prediction, and/or x-ray crystallography are particularly encouraged to apply.

Cell Biology and Genetics, with a focus on basic cell biological and developmental mechanisms relevant to human disease. Individuals with interest and expertise in functional genomics using model organisms such as yeast, fly, worm or zebrafish are especially encouraged to apply.

Outstanding applicants with research interests in other areas will also be given full consideration. Successful candidates will have an opportunity to interact with basic and medical scientists in areas of cell and molecular biology, structural biology, gene therapy, and medicine. Applicants should send a curriculum vitae, a statement of research interests, and three letters of recommendation before February 15, 2001 to:

**Eric D. Wieben, PhD, Chair
Biochemistry and Molecular Biology
Mayo Clinic
200 First St. SW
Rochester, MN 55905**

Application materials may also be submitted by e-mail to pearson.debra@mayo.edu.
See also: <http://www.mayo.edu/research/>

Mayo Foundation is an affirmative action and equal opportunity employer and educator.



**MAYO CLINIC
FACULTY POSITION
NANOTECHNOLOGY/NANOBIOSCIENCE**

The Mayo Clinic, Department of Physiology and Biophysics and the Mayo Clinic Biomedical Engineering Education Track have an immediate opening for a scientist/engineer in nanotechnology/bionanotechnology. The Department currently does research in a wide range of fields such as high-speed electronic systems, molecular structure and function, biomedical image analysis, ion channel structure and function, cellular signaling, ultrasound imaging and therapy, smooth muscle, cardiac muscle, and neuronal physiology among others. The successful candidate will have a Ph.D. or M.D. degree with a minimum two-five years experience in nationally competitive research in the field. The successful candidate will be expected to conduct nationally competitive and funded research, to collaborate with colleagues in both basic and clinical disciplines, to provide support for the educational mission of the Department. He or she should also be willing to train postdoctoral fellows as well as graduate students. Rank and salary will be commensurate with experience. Startup packages are available. Curriculum vitae, cover letter detailing experience, current interests and future plans and names of three individuals that can provide letters of recommendation should be sent to:

**James F. Greenleaf, Ph.D.
Basic Ultrasound Research Laboratory
Department of Physiology and Biophysics
Mayo Clinic
200 1st St. SW
Rochester, MN 55905
Phone: 507 284-8496
Fax: 507 266-0361
E-mail: jfg@mayo.edu
<http://www.mayo.edu/ultrasound/ultrasound.html>
See also: <http://www.mayo.edu/research/>**

Mayo Foundation is an affirmative action and equal opportunity employer and educator.

UIC University of Illinois
at Chicago

**Head
Biochemistry & Molecular
Genetics**

Applications and nominations are invited for the new position of Head of the Department of Biochemistry & Molecular Genetics at the University of Illinois at Chicago (UIC). This new position has arisen from the merging of the Department of Molecular Genetics and the Department of Biochemistry & Molecular Biology to form the Department of Biochemistry & Molecular Genetics, with a mission for the Department to develop in a way that takes advantage of the enormous new opportunities afforded by the genomics revolution.

The new Head will be charged with integrating the current faculties of the Departments of Biochemistry & Molecular Biology and of Molecular Genetics, which currently consist of 29 full-time members with well-funded research programs supported by extramural funding in excess of \$11 million in the current year, including 30 NIH research and training grants. The constituent graduate programs are strong, with current combined enrollment of 78 graduate students. The new Head will be expected to play a key role in the establishment of a campus-wide Center for Genomic Sciences to develop genomics, proteomics and related disciplines.

The successful candidate should have a Ph.D. and/or M.D. degree, must be of national stature, have an active funded research program that fits well with the mission of the Department, have exceptional administrative skills, and have the vision and drive to ensure the successful integration of the constituent Departments and the development of genomic sciences at the college and institutional levels. The candidate should be eligible for professorship status with tenure.

For fullest consideration, nominations and/or letters of application, along with curriculum vitae and names of three references should be submitted by March 1, 2001 to:

**Asrar B. Malik, PhD, Professor &
Head, Department of Pharmacology
Chair, Biochemistry & Molecular
Genetics Head Search Committee
c/o Gregory S. Pittsley,
Dean's Office
UIC College of Medicine at Chicago
1853 W. Polk Street, Room 131 CMW
(M/C 784)
Chicago, Illinois 60612**

UIC is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.



**FY2001 Grants for International Joint Research
in the Areas of
Materials, Energy and Global Environment**

The New Energy and Industrial Technology Development Organization (NEDO), which is subsidized by the Ministry of Economy, Trade and Industry (METI) formerly Ministry of International Trade and Industry (MITI), has been conducting the International Joint Research Grant Program. This program aims to promote advancement of the international level of industrial technology and enhancement of international researcher exchange, and the results achieved are expected to create the basis for new key industrial technology. In this regard, NEDO will provide grants to international joint research teams which conduct excellent, innovative and original research in the areas of materials, energy, global environment and international standard development. For the global environment area, this program will be carried out jointly with the Research Institute of Innovative Technology for the Earth (RITE).

Requirements:

- 1) Each team must, in principle, be composed of four (4) or more researchers.
- 2) Each team must consist of researchers of two (2) or more nationalities.
- 3) The affiliates (where the joint research will be performed) must be located in two (2) or more countries.
- 4) Each team must appoint a research coordinator and an accounting coordinator from among its members. (A research coordinator can also serve as the accounting coordinator.) The accounting coordinator's research institute and research location must be in Japan, and he/she must be able to communicate with NEDO in Japanese.

Research Area	Field of Research	Amount of Each Grant in FY2001	Number of Themes to be Adopted	Recipient of Applications
Materials	Basic research concerning the investigation, elucidation and practical use of materials which will lead to the creation of new industries	About 24,000,000 yen	10 themes	NEDO (Note a.)
Energy	(Related to power generation) Practical research on industrial technology concerning utilization of oil-alternative energy for power generation, leveling of electric loads and related global environment conservation	About 30,000,000 yen	1 theme	
	(Efficient use) Practical research related to industrial technology for efficient use of energy, excluding power generation	About 30,000,000 yen	4 themes	
Global Environment	(Basic research) Basic research on conservation and improvement of the global environment in industrial technological areas	About 24,000,000 yen	2 themes	RITE (Note b.)
	(Practical research) Practical research on industrial technology concerning the production, generation and utilization of oil-alternative energy, excluding electric power generation technologies, which contributes to conservation and improvement of the global environment	About 30,000,000 yen	1 theme	

For FY2001, there will be no announcement for the International Standard Development area.

The application period will be from January 15, 2001 to March 14, 2001. (All applications must reach NEDO by the deadline.)

Application Forms:

Application forms can be downloaded from <http://www.nedo.go.jp/itd/grant-e/index.html>

Recipient of Applications:

Note a: Materials and energy areas:

International Joint Research Division
Research Grant & Fellowship Department
New Energy and Industrial Technology
Development Organization (NEDO)

Address: PO Box 1151, 29th Floor, Sunshine 60 Bldg.,
1-1 Higashi-Ikebukuro 3-chome,
Toshima-ku, Tokyo 170-6028 Japan
Telephone: +81-3-3987-9357
Fax: +81-3-5952-0082

E-mail: nedogrant@nedo.go.jp

Homepage: <http://www.nedo.go.jp/itd/grant-e/index.html>

Note b: Global environment area:

Research Proposals Reception Section,
Research Planning Department
Research Institute of Innovative
Technology for the Earth (RITE)

Address: 9-2, Kizugawadai, Kizu-cho, Soraku-gun,
Kyoto 619-0292 Japan
Telephone: +81-774-75-2302
Fax: +81-774-75-2314
E-mail: proposal@rite.or.jp
Homepage: <http://www.rite.or.jp>

Notes:

1. This program is subject to availability of appropriated government funds.
2. Please note that the grant amount and number of themes to be adopted may be changed.
3. To ensure the innovativeness of proposed research themes, up to two (2) applications using the same research plan are acceptable.
4. Regarding an application, if it does not follow the instructions described in the International Joint Research Application Guidebook, or the proposed research has no relevancy to the above areas, it will not be considered.

XenoPort

XenoPort, Inc. is a well-financed, early-stage biopharmaceutical company focused on the development and application of new technologies to enhance the bioavailability of drugs, by exploiting the function of specific proteins involved in active transport of molecules into and through cells. We are creating a new medicinal chemistry paradigm for developing and optimizing orally bioavailable medicines based on understanding the molecular basis of drug transport.

We are recruiting talented individuals in synthetic/ medicinal chemistry, cellular/ molecular biology, and biopharmaceutics.

Biological Sciences –

Staff Scientist, Transporter Gene Discovery/Characterization (#248) Successful candidate will be a key member of a group dedicated to the discovery of novel transporter proteins, and the characterization of transporter function, localization, and pharmacology. Strong molecular biology skills and broad experience with bioinformatics tools for sequence analysis are essential. Experience in the study of transporter biology and pharmacology is a distinct advantage.

Research Assistants/Associates (#218/238) – Requires B.S. or M.S. in biological sciences with relevant experience in the areas of molecular biology, cell biology, biochemistry or pharmacology. Demonstrated record of scientific accomplishment and strong collaborative and communications skills are essential. Strong computer skills, experience with data analysis tools and the use of compound or sequence databases are required.

Research Assistants (#228) – Requires B.S. in biological sciences and 0 to 2 years of experience in the areas of molecular biology, cell biology, biochemistry or pharmacology. Good communications and computer skills are required. Experience with data analysis tools and compound or sequence databases is an advantage.

Chemistry Department –

Scientists – Medicinal/Combinatorial Chemistry to participate in research team designing and synthesizing orally bioavailable drug candidates.

Staff Scientists (#138) – Requires Ph.D. in Organic, Medicinal or Bioorganic Chemistry with 2 or more years of industrial or postdoctoral research experience, and an emphasis in synthetic methodology development and/or multistep total synthesis of bioactive compounds.

Research Associates (#108) – Requires B.S. or M.S. in Chemistry, preferably with prior industrial experience, and a strong background in organic synthesis with extensive experience using modern spectroscopic and chromatographic techniques (NMR, MS, HPLC). Prior hands-on experience with solid-phase combinatorial synthesis and/or solution phase library synthesis is advantageous. Excellent oral and written communication skills are essential.

Biopharmaceutics Department –

Senior/Staff Scientist (In Vitro) (#337/347) – Requires M.S. or Ph.D. and prior exp. Design/implement high throughput *in vitro* ADME studies to support evaluation of novel transported drugs. Develop high throughput LC/MS/MS methods for analysis of biological samples, and prepare data for publication/presentation.

Staff Scientist (In Vivo) (#338) – Requires M.S. or Ph.D. and prior exp. Design/implement *in vivo* PK/ADME studies to support evaluation of novel transported drugs. Perform hands-on *in vivo* studies, coordinate external contract studies, conduct pharmacokinetic analyses, and prepare data for publication/presentation.

Research Assistants/Research Associates (#318/328) – Requires B.S. or M.S. and 0-2 yrs experience. Conduct *in vitro* and *in vivo* PK/ADME studies to support discovery of novel transported drugs. Perform incubations, collect and analyze biological samples, isolate metabolites.

We offer outstanding candidates an excellent compensation and benefits package including pre-IPO stock options. Please send your CV w/ cover letter referencing job code to: XenoPort, Inc., 2631 Hanover St., Palo Alto, CA 94304. Email: jobs@xenoport.com EOE

See our website for detailed information
www.xenoport.com



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

ALSAC • Danny Thomas, Founder

Postdoctoral position in Molecular Neurobiology

The focus of this laboratory is identification of important signaling events in neurodegeneration and neuronal apoptosis. Specifically, our work concerns the molecular events involved in neuronal apoptosis in response to genotoxic stress, and the molecular basis for neurodegeneration in the human syndrome of ataxia telangiectasia. Additionally, cDNA microarray analysis and subtractive hybridization methodology are being used to identify gene expression changes required for radiation-induced apoptosis. For a general description of work in this laboratory see: *Science* **280**: 1089, *PNAS* **97**: 889 *Trends in Neuroscience* **23**: 417, *Genes and Development* **14**: 2576. This position requires a recent Ph.D. and/or M.D., and will provide excellent training for someone interested in obtaining experience in current techniques in molecular neurobiology, with a particular emphasis on transgenic mouse technology and cDNA microarray analysis.

St. Jude provides superb support facilities and a research environment that is highly interactive. Interested candidates should send a curriculum vitae and must arrange to have three letters of recommendation sent to:

**Peter McKinnon, Ph.D.
Department of Genetics
(Job Code: 1835)**

**St. Jude Children's Research Hospital
332 North Lauderdale • Memphis, TN 38101**

SJCRH is an Affirmative Action/Equal Opportunity Employer.



TAP Pharmaceutical Products Inc.

PHARMACEUTICALS

Combining the strength of two international pharmaceutical companies through a joint venture, TAP Pharmaceutical Products Inc. is a pharmaceutical company with a unique, innovative spirit. This spirit is reflected in our phenomenal staff and sales growth.

PHARMACOLOGY

You will coordinate preclinical pharmacology studies conducted at outside laboratories (commercial and academic), facilitate protocol development, monitor progress via telephone contact and site visits, review data and facilitate report preparation. In this position you will also maintain tracking system for ongoing studies and drug shipments, assist in the preparation of efficacy or safety pharmacology summaries for IND, NDA or other regulatory submissions, make pharmacology presentations at internal and external meetings, and act as pharmacology representative on TAP project teams, liaison with functional areas at TAP, especially clinical research, toxicology and metabolism.

To succeed, you must possess excellent written and oral communication skills, laboratory experience and any combination of the following:

- BS/BA with at least 4 years experience in pharmacology
- MS/PharmD degree with at least 2 years experience in pharmacology
- PhD with at least one year of experience
- Neurophysiology experience preferred

TAP invites you to learn more about the exceptional career environment available at our headquarters in suburban Chicago by visiting our website at www.tap.com. For immediate consideration, please respond to our resume processing center with reference code ADN/TK/SAO and fax or e-mail your resume to: TAP Pharmaceutical Products Inc. Fax: 781-663-2456. E-mail: adn@tapcareers.com. Resumes without reference codes cannot be processed. Equal Opportunity Employer.

The Idaho National Engineering and Environmental Laboratory (INEEL) in Idaho Falls performs basic and applied research, technology development and field deployment to support the U.S. Department of Energy (DOE). As the lead laboratory for DOE's Environmental Management program, INEEL is currently establishing a major new area of research focus in the subsurface, with emphasis on the vadose zone. INEEL's Subsurface Science Initiative (SSI) consists of an expanded R&D effort to understand and evaluate fundamental geological, geophysical, geochemical, biological and transport processes occurring in heterogeneous subsurface environments. INEEL's goal is to establish a nationally and internationally recognized "Center of Excellence" in subsurface science R&D, and in development and field deployment of new and improved technology. We are currently seeking qualified candidates to participate in collaborative, interdisciplinary research programs in five key scientific disciplines:

Geosciences

Geoscience research will focus on quantifying, at the field scale, fluid movement and the fate and transport of contaminants in the subsurface. Research will be pursued at several scales of investigation ranging from micro scale to field scale, including evaluating, understanding and characterizing: the relationship of water and contaminant movement in the subsurface; spatial variability of physical and chemical parameters in the subsurface; hydrologic and soil-physics phenomena; and, applying scaling theory to environmental problems.

Biological Sciences

Subsurface biological research will focus on bio-geochemical interactions and their spatial heterogeneity in the subsurface, and the interactions among microbes, surface minerals and contaminants. This will require developing molecular-biological approaches to evaluate subsurface organisms and their metabolic capabilities, and instrumentation and analytical capabilities to assess chemical signatures of microbial transformations. The ultimate goal will be to develop new and improved bio-remediation technology.

Subsurface Chemistry

Subsurface chemistry will focus on accumulation of inorganic species on mineral surfaces and on geochemical transformations taking place as fluids and contaminants move through subsurface materials. Of particular interest are surface reactions of nuclear fission products and actinide ions, colloids, and particles on mineral surfaces found in the vadose zone. Other research topics will include computational chemistry and modeling to aid in understanding the mechanisms of surface contamination/transport and subsurface barriers/filters applied to migrating subsurface chemical contaminants.

Geophysics Characterization

A multidisciplinary geophysics characterization effort will focus on challenges associated with the SSI's objectives. Subsurface physics characterization integrates the multiple scales of investigation commonly encountered in traditional field-based geoscience measurements and laboratory-based physical, geochemical and biochemical investigations. Geophysical characterization needs vary from subsurface formation description and fluid flow to interfacial biochemistry. Research focus will range from sensor development to innovative interpretation and scientific applications.

Subsurface Modeling

Subsurface modeling will focus on developing analytical and other mathematical expressions for coupled hydrological, geochemical and biological processes in the subsurface, developing analytical or numerical computer codes based on the mathematical models, and implementing parallel processing techniques in modeling.

Ideal candidates should hold a Ph.D. in hydrology, physics or geophysics, geology, geochemistry, geostatistics, engineering or a related field with a strong background and interest in working on subsurface environments. Experienced M.S.-level candidates will also be considered.

Candidates should send a letter expressing interest in one of these positions along with a detailed resume or vita to:

Subsurface Science Initiative
C/O Dr. Russ Hertzog
Idaho National Engineering and Environmental Laboratory
P.O. Box 1625, MS2214
Idaho Falls, ID 83415-2214

This is an open-ended search. Candidates are encouraged to submit an application at their earliest convenience.



Equal Opportunity Employer

STEM CELL BIOLOGY
Research Associates & Technicians

The Gene Therapy Laboratories
Norris Cancer Center
University of Southern California
Los Angeles

We are actively seeking personnel to contribute to a research program aimed at understanding stem cell biology and the identification of novel growth regulatory proteins. Five positions are currently available:

Research Associates with a Ph.D. or Master's degree and a minimum of 2 years experience in:

- (1). Protein purification and characterization using FPLC (Requisition #H07365).
- (2). Molecular biology, especially cDNA library construction, screening and data analysis (Requisition #H07366).

Research Lab Specialists/Technicians with a Master's or Bachelor's degree and a minimum of 2 years experience in:

- (3). Gene cloning, protein expression and cDNA library screening, additional small animal experience is preferable (Requisition #H07367).
- (4). Cell biology, *in vitro* assay development and small animal handling, particularly relating to hematology or immunology (Requisition #H07363/#H07364).
- (5). Flow cytometry, specific experience with the Cytomation MoFlo Cytometer is preferred (Requisition #H06849).

Applicants should state the position(s) of interest, and send a complete CV, together with contact information for three references to **W. French Anderson, M.D.**, Director, Gene Therapy Laboratories, Norris Cancer Center, Room 6316, USC Keck School of Medicine, 1441 Eastlake Avenue, Los Angeles, CA 90033.

STAFF SCIENTISTS
(2 Positions)

The **Population Council** invites applications for two Staff Scientist positions at its Center for Biomedical Research located on the campus of Rockefeller University in New York City. These openings provide the opportunity to work in a collaborative environment with basic and applied scientists in the broad areas of reproductive physiology, contraceptive development, and reproductive health. Newly renovated laboratory space and resources are available for these positions.

The Center is looking for investigators who show promise for developing independently funded research programs in areas that complement its existing research efforts. Areas of interest include, but are not limited to: female or male contraception, fertility and infertility; mechanisms of action of steroid, gonadotropic, and paracrine hormones; signal transduction and regulation of gene expression; regulation of steroid synthesis and metabolism; and prevention of STDs, including AIDS. Preference will be given to candidates with demonstrated experience and a continuing interest in a genomics-based approach to study reproductive function.

Requires a Ph.D., M.D., or D.V.M. degree or equivalent, with at least three years of relevant post-doctoral experience. Send letter of interest, C.V., and names/addresses of 3 references, to: **K. Bailey, Population Council, CBR, 1230 York Avenue, New York, NY 10021; Fax: 212-327-7678; or E-mail: kbailey@popcouncil.org**



www.popcouncil.org AA/EOE-MF

Plan to attend Science's 2001
career FAIRS



CAREER FAIRS
hosted by Science

February 19, 2001

San Francisco Hilton and Towers
San Francisco, CA
From 11am -4pm
Held in conjunction with the
AAAS Annual Meeting
www.sciencecareers.org

June 19, 2001

University of California, Irvine
Irvine, CA
www.sciencecareers.org

August 13, 2001

Seaport Hotel
Boston, MA
www.sciencecareers.org

Also at the Seaport Hotel ...
Drug Discovery Technology 2001
held August 13-17, 2001
www.drugdisc.com

Science
www.sciencecareers.org

nature
immunology

seeks an **ASSISTANT EDITOR**

Nature Immunology is an international monthly research journal covering all aspects of immunology. This exciting *Nature* monthly seeks an Assistant Editor to participate in the development of the highest quality immunology venue. The Assistant Editor will select research manuscripts, commission Reviews, Commentaries and News & Views, edit manuscripts for clarity and write. Maintaining close ties with the immunology community is essential to the position, which provides ample opportunity for travel to institutions, meetings and conferences. Applicants should have a Ph.D. and post-doctoral experience with a strong research background in immunology, a broad understanding and interest in the field, excellent literary skills and an enthusiasm for and commitment to the communication of science.

Based in our established central New York City office, the *Nature Immunology* team is part of a dynamic editorial and publishing environment that includes *Nature Genetics*, *Nature Structural Biology*, *Nature Medicine*, *Nature Biotechnology* and *Nature Neuroscience*. The successful applicant will also enjoy a close working relationship with the London-based *Nature* and *Nature Cell Biology* teams.

To apply, please submit a CV, a short (700-900 words) News & Views-style article on an exciting and newsworthy recent development in any area of immunology and a short cover letter explaining your interest in the post, to: Dr. Linda J. Miller, Editor, *Nature Immunology*, Nature America, 345 Park Avenue South, New York, NY 10010 (fax 212.696.9594; admin@natureny.com) to arrive as soon as possible and **not later than 2 February 2001**.



EMORY
UNIVERSITY

School of Medicine
Atlanta, Georgia

Postdoctoral Research Opportunities in Signal Transduction

Emory University is recognized internationally for its strength in cell signaling research. Postdoctoral positions are available for candidates with Ph.D. and/or M.D. degrees and five or fewer years of relevant postdoctoral experience. Candidates should send application materials (CV/bibliography, statement of research interests, and the names, telephone numbers, email and postal addresses of three references) to the principal investigator listed below either electronically or by mail. Contact information for each investigator is available on Faculty Profiles at <http://www.biomed.emory.edu/>. For additional information on policies, benefits, or related issues visit our Office of Postdoctoral Education web site at <http://www.emory.edu/WHSC/MED/POSTDOC/>.

Guy Benian, M.D. - pathgb@bimcore.emory.edu - Muscle and cytoskeleton in *C. elegans*. The main focus is on the structural and signaling roles of several giant polypeptides including twitchin, UNC-89, and the nematode homologs of titin.

Ken Bernstein, M.D. - kbernst@emory.edu - Studies of the mechanism by which the angiotension II receptor (AT1), a 7 transmembrane receptor, lead to activation of the JAK-STAT pathway in response to ligand. Nuclear translocation of STAT a current focus.

Lou Ann Brown, Ph.D. - louann.brown@oz.ped.emory.edu - Effects of chronic reactive oxygen species generation on inflammatory mediator-induced alteration of stress genes, cell-cell interactions, apoptosis and cell-matrix.

Xiaodong Cheng, Ph.D. - xcheng@emory.edu - Structural and functional study of mammalian DNA and protein methylation; including maintenance and *de novo* DNA methyltransferases, methyl CpG-specific binding proteins, and protein arginine methyltransferases.

Ray Dingleline, Ph.D. - rdingleline@pharm.emory.edu - Use of microarrays/bioinformatics to identify signaling pathways in epileptogenesis. The genetic control of glutamate receptor function is also studied with electrophysiological and molecular biological approaches.

Haian Fu, Ph.D. - hfu@emory.edu - Protein-protein interactions involved in cell survival signaling, and targeting intracellular signaling pathways for anticancer therapy; focus on pathways regulated by 14-3-3 proteins and apoptosis signal-regulating kinase 1 (ASK1).

Curt H. Hagedorn, M.D. - nwagone@emory.edu - Regulation of cancer cell gene expression by an RNA binding protein that modifies the tissue invasion phenotype. Regulation of hepatitis C viral RNA replication.

Criss Hartzell, Ph.D. - criss@cellbio.emory.edu - Regulation of ion channel function. Projects include: mechanisms of chloride channel regulation by calcium, kinases, and phosphatases and mechanisms of interaction between CFTR and Ca-activated chloride channels.

John R. Hepler, Ph.D. - jhepler@emory.edu - Novel cellular signaling roles and biochemical regulation of RGS proteins in the CNS; Roles for biochemical and cell signaling diversity of G protein signaling pathways in cellular differentiation.

Alec Hodel, Ph.D. - ahodel@emory.edu - Combining X-ray crystallography with other biophysical methods to define the molecular mechanics of signal transduction; nucleocytoplasmic transport of proteins/RNA and coupling signaling to RNA metabolism.

Dean P. Jones, Ph.D. - djpjones@emory.edu - Redox control mechanisms. Research is focused on glutathione and thioredoxin in growth control and apoptosis with specific relevance to mitochondrial toxicities and age related disease.

Richard A. Kahn, Ph.D. - rkahn@emory.edu - Roles of regulatory GTPases, specifically ADP-ribosylation factors (ARFs), in membrane traffic, lipid metabolism, respiration, cell cycling and the cross-talk between these and other cellular processes.

J. David Lambeth, M.D., Ph.D. - diambe@bimcore.emory.edu - Generation and biological roles for reactive oxygen species (ROS), especially function of ROS in mitogenic regulation, cancer and atherosclerosis.

Allan Levey, M.D., Ph.D. - alevey@emory.edu - Signaling and trafficking mechanisms relevant for pathogenesis and treatment of neurodegenerative disorders, especially Alzheimer's and Parkinson's diseases.

Nael A. McCarty, Ph.D. - nmcc@physio.emory.edu - Molecular physiology of ion channels defective in Cystic Fibrosis, a lethal inherited disease. A combination of biochemical and electrophysiological approaches are used.

Al Merrill, Ph.D. - amerril@emory.edu - Mechanistic and applied studies of cell signaling, xenobiotic metabolism and carcinogenesis; metabolism and biology of bioactive lipids (ceramide, sphingosine, sphingosine 1-phosphate) and synthetic analogs.

T.J. Murphy, Ph.D. - medtjm@emory.edu - Gene expression in vascular cells as models for receptor signaling integration. Roles of activation of transcriptional and post-transcriptional mechanisms in underlying patterns of mRNA responsiveness.

Mark S. Nanes, M.D., Ph.D. - mnanes@emory.edu - Nuclear hormone receptor regulation of gene transcription with emphasis on the vitamin D endocrine system and Cytokine modulation of nuclear hormone action. **[U.S. citizen or Permanent Residents-this position only]**

Grace Pavlath, Ph.D. - gpavlat@emory.edu - Mechanisms involved in skeletal muscle growth and repair with emphasis on signaling pathways regulating stem cell lineage commitment and differentiation.

Maureen A. Powers, Ph.D. - mpowers@cellbio.emory.edu - Mechanism and regulation of nucleocytoplasmic traffic with emphasis on the role of nuclear pore complex proteins. Cell cycle regulated assembly of the nuclear pore using nuclei reconstituted *in vitro* from Xenopus extracts.

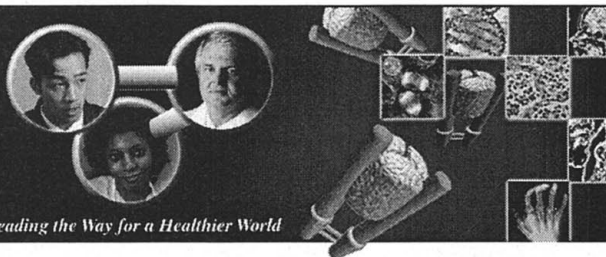
Winfield S. Sale, Ph.D. - win@cellbio.emory.edu - Regulation of molecular motor activity. The focus is on: [1] control of the molecular motor dynein by phosphorylation and [2] the mechanism of targeting and anchoring the kinases and phosphatases that regulate dynein.

Gerald S. Shadel, Ph.D. - gshadel@emory.edu - Nuclear-mitochondrial signaling mechanisms, with an emphasis on how nuclear-encoded gene products regulate mitochondrial gene expression and mtDNA replication in yeast and humans.

Wolfram Siede, Ph.D. - wsiede@emory.edu - Mechanisms of cell cycle checkpoint arrest in response to DNA damage in *S. cerevisiae*. Training in molecular biology & genetics or biochemistry required, experience with yeast and DNA damage responses preferred.

Erwin G. Van Meir, Ph.D. - evanmei@emory.edu - The molecular basis for human gliomagenesis. Projects include the study of the p53 tumor suppressor gene, the process of glioma angiogenesis and the development of replication-competent adenoviruses for tumor therapy.

EMORY UNIVERSITY IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER WWW.EMORY.EDU



Lead the way! Become a leader by furthering your career and experience with one of the world's largest research-based companies. At Wyeth, part of American Home Products, your knowledge will help lead the way into a healthier world. Join us by beginning 2001 in a promising position in our **Pearl River, NY** (located about 25 miles north of Manhattan) and **Princeton, NJ** facilities.

Postdoctoral

A postdoctoral position is available in the Oncology Department of Wyeth Research, the pharmaceutical research division of American Home Products. In this position you will perform basic research to elucidate signal transduction pathways that are relevant to cancer cells. Possible pathways include the rapamycin sensitive mTor signaling pathway, the PTEN pathway, pathways involving various kinases, or pathways that regulate apoptosis. The preferred candidate will be efficient, highly motivated, organized, and have a strong desire to succeed.

Wyeth offers competitive compensation and benefits programs including flex-time, business casual work environment and professional development programs. Please forward your resume with salary requirements to: **S. Avery at Wyeth, 401 N. Middletown Rd., Pearl River, NY 10965. Email: avery@war.wyeth.com Fax: (845) 732-5375.**

Research Scientist

The ideal candidate will participate in an orphan GPCR functional genomics program that utilizes our proprietary yeast GPCR technology. Establishing mammalian cell lines expressing GPCRs and characterizing the ligand binding and signal transduction properties of these cells will also be required. To qualify, you must possess a BS with 7 years' experience or an MS with 2-5 years' experience in the establishment and maintenance of mammalian cell lines expressing G protein coupled receptors. A strong background with molecular biological techniques and previous experience with radioligand binding and second messenger assays are essential.

Wyeth offers competitive compensation and benefits programs including stock options, child-care subsidies, flex-time, educational assistance and professional development programs. Please forward your resume with salary requirements to: **Wyeth, Reference OPSCI, P.O. Box 7886, Philadelphia, PA 19101-7886. Fax to: (610) 989-4854. E-mail: jobs@RAMAIL1.wyeth.com**

No phone calls please. Principals only. Equal Opportunity Employer. M/F/D/V.

For more information, please visit us at:
www.wyethjobs.com



PLANT ECOLOGIST/ INVASIVE SPECIES MANAGEMENT RESEARCH

The Agricultural Research Service (ARS) of the US Department of Agriculture invites applications for a Research Plant Ecologist that is to be located in Reno, Nevada. The position serves in the Exotic and Invasive Weed Research Unit (EIWRU) which conducts studies on the biology and control of invasive plant species. The position will have full responsibility for initiating, developing and managing independent research projects addressing the biology, ecology and control of invasive plants, including saltcedar (*Tamarix spp.*) and exotic rangeland grasses such as cheatgrass (*Bromus tectorum*). Research may include plant growth and developmental biology, temporal and spatial population dynamics, and interactions with other abiotic and biotic factors affecting population dynamics, pest management and habitat restoration/ revegetation ecology. The research effort should include a combination of field, laboratory and greenhouse studies for improving the management of these plant pests through improved ecological understanding of population dynamics and interactions with other species in the natural environment. As a team member, cooperates with other research scientists in the EIWRU, other ARS locations, state departments of agriculture, university scientists and private groups, contributing skills in botany, ecology, invasion biology, and intra/inter-species competition, toward the integrated management of invasive weeds. The position will also serve as Lead Scientist and Location Coordinator for the ARS Reno Worksites.

Candidate must be a U.S. Citizen. Ph.D. or equivalent doctoral degree required, and 1 year of specialized experience in plant ecology. A complete copy of the vacancy announcement and where to apply can be found at: <http://www.ars.usda.gov/asm/hrd/vacancy/vac2.html>; select announcement ARS-X1W-1139; or contact Personnel at 510/559-6090. Closing date for applications is February 20, 2001. For more detailed information on the position responsibilities, please contact **Dr. David Spencer, Search Chair, (530) 752-1096; e-mail d Spencer@ucdavis.edu.**

USDA is an equal opportunity provider and employer.



NEOUCOM

NORTHEASTERN OHIO UNIVERSITIES
COLLEGE OF MEDICINE

NEUROVIROLOGY/NEURAL STEM CELLS/ANTIVIRALS

The Department of Microbiology/Immunology at the Northeastern Ohio Universities College of Medicine is seeking applicants for an Assistant Professor position within the department focus areas of (a) Neurovirology/Neural Stem Cells and/or (b) Anti-virals (vaccine and/or drug). We are seeking an individual with documented accomplishments in one or both of these areas to join an experienced virology group conducting research in these focus areas. The successful applicant must be able to collaborate in ongoing projects as well as develop their own extramurally funded project in one of the focus areas. Applicants must have a Ph.D. or M.D. degree and relevant post-doctoral experience. The position is primarily research with the opportunity to teach medical and graduate students.

The Department of Microbiology/Immunology is housed in new research space that contains extensive core facilities including a BL-3 laboratory and tissue culture facilities. Additional core laboratories and equipment are available in the Division of Basic Medical Sciences including electron microscopy, confocal microscopy, laser-capture microscopy, real time PCR, Bioquant work stations and other standard equipment used in molecular and cell biology.

Interested individuals should submit a complete curriculum vitae, names of three references, and a brief statement of research interests and career goals to:

**John J. Docherty, Ph.D.
Professor and Chair
Microbiology/Immunology
Northeastern Ohio Universities
College of Medicine
4209 State Route 44
P.O. Box 95
Rootstown, OH 44272-0095**

NEOUCOM is an EEO/AA educator/employer.

Multiple Positions in Plant and Animal Biotechnology Oklahoma State University

The Division of Agricultural Sciences and Natural Resources at Oklahoma State University is seeking to expand research and teaching activities in both plant and animal biotechnology. Currently, four full-time (11 month), tenure track positions and one full-time, non-tenure track position are open. Additional positions are anticipated in the near future. Emphasis in these areas complements similar efforts ongoing in other colleges at OSU including the College of Arts and Sciences and the College of Veterinary Medicine. Scientists recruited in the current effort will have opportunities to collaborate with interdisciplinary research groups associated with the OSU Plant Biotechnology Network (<http://plantbionet.okstate.edu>) and with teams of scientists with mutual interests in genetics, reproductive physiology, nutrition and food sciences, and other areas campus-wide. Opportunities also exist for significant research collaborations with the Plant Biology Division of the S.R. Noble Foundation in Ardmore, Oklahoma. State-of-the-art research facilities at OSU include a Recombinant DNA/Protein Resource Facility, Plant Transformation Facility, Hybridoma Center, Microscopy Center with TEM, SEM and confocal microscopes, and an NMR Facility with 600 and 400 MHz instruments. Specifics of individual positions are given below. Additional information can be obtained by visiting our web site at <http://biochem.okstate.edu>.

Sitlington Endowed Chair in Molecular Plant Biology

Applications are invited at the Associate or Full Professor level to fill the Sitlington Chair in Molecular Plant Biology. Applicants should have a doctorate in a biological science and an internationally recognized research program that focuses on fundamental mechanisms in plant biology. Research areas of interest include, but are not limited to, biotic and abiotic stress, metabolic engineering, signal transduction, genome evolution, development, and gene silencing. Applicants with a strong background in functional genomics are especially encouraged to apply. Review of applications will begin January 25, 2001 and continue until the position is filled. Applications are still encouraged.

Sitlington Endowed Professorship in Animal Genomics

Applications are invited for a full-time tenure-track position at the Associate or Full Professor level. The Endowed Professorship will provide supplemental salary and research funding support and is renewable. The person in this position is expected to develop and conduct an innovative and productive research program in molecular genetics with an emphasis in genomics, QT mapping, cytogenetics and/or informatics with application to the efficient production of quality food from animals. Candidates must have an earned doctorate in genetics or a related discipline and demonstrated potential to develop an outstanding research and teaching program. Review of applications will begin March 15, 2001 and continue until the position is filled.

Assistant or Associate Professor in Biochemistry and Molecular Biology

Applications are invited for a full time, tenure-track position at the Assistant or Associate Professor level. Applicants with a strong background in proteomics, modern protein biochemistry, and/or biophysics are especially encouraged to apply. Candidates must have an earned doctorate in biochemistry, molecular biology or a related area with significant postdoctoral experience. Review of applicants will begin February 20, 2001 and continue until the position is filled.

Assistant Professor in Animal Molecular Biology

Applications are invited for a full-time, tenure-track position to develop and conduct an innovative and productive research and teaching program in animal molecular/cellular biology. We desire emphasis in proteomics and protein expression involved in regulation of protein and lipid synthesis/accretion and other biological functions to enhance the efficient production of quality foods from animals. Candidates should have a Ph.D. in molecular biology, cell biology, or a closely related field and appropriate experience in the areas outlined. Review of applications will begin April 15, 2001 and continue until the position is filled.

Assistant Research Professional in Functional Genomics in Biochemistry and Molecular Biology

Applications are invited for an Assistant Research Professional in the Department of Biochemistry and Molecular Biology. The individual hired will devote half of his/her time to the operation of a microarray facility utilized by OSU researchers and half to independent or cooperative research in the general area of functional genomics. Candidates must have an earned doctorate in biochemistry or a related discipline. Review of applications will begin February 20, 2001 and continue until the position is filled.

Additional information and specific contacts for individual positions can be located through our web site at <http://biochem.okstate.edu> or you may send inquiries to:

Dr. James B. Blair
Department of Biochemistry and Molecular Biology
Oklahoma State University
246 Noble Research Center
Stillwater, OK 74078-3035
Phone: 405-744-6189, Fax: 405-744-7799; email: jblair@okstate.edu

Equal Employment Opportunity: Applicants will be considered without regard to race, color, national origin, age, sex, religion, disability or status as a Vietnam-era veteran. Successful applicant must comply with the Immigration Reform and Control Act of 1986. Oklahoma State University is an Affirmative Action/Equal Opportunity Employer committed to Multicultural Diversity.

Research Chairs in Infectious Diseases

The Government of Canada has created 2000 research chairs to foster excellence in research in Canadian universities. The program is based upon an uncompromising commitment to excellence in research and in training through research. Two tiers of chairs are available. Tier I Chairs are for individuals who are world-leaders as demonstrated by their outstanding and innovative research accomplishments with major impacts in their field and a superior record of research training. Tier I Chairs are renewable after 7 years. Tier II Chairs are designed for rising stars with a high probability of achieving international recognition and leadership in the next 5-10 years. Tier II Chairs are renewable after 5 years.

The Veterinary Infectious Disease Organization (VIDO), recognized internationally in vaccinology, is undergoing a major expansion with funding from the Canadian Foundation for Innovation. This expansion will allow us to build on our international reputation in infectious diseases of animals and animal model systems, and capitalize on the similarities between infectious diseases of humans and animals. Our vision is to combine the recent advances in genomics, proteomics, bioinformatics, biotechnology, vaccine formulation and delivery, gene expression, virology, bacteriology, parasitology, and immunology to develop a family of novel, safe, and efficacious vaccines for humans and animals. This team of researchers will combine advances in human and veterinary pathogens to produce more effective vaccines for both humans and animals. Individuals with expertise in any of the above disciplines, especially if they are interested in applying these skills to pathogenomics, are encouraged to apply.

In addition to a competitive salary, excellent start-up funding is available to the successful candidates through the Canada Foundation for Innovation, the Research Chairs Program, and VIDO's internal resources. VIDO will assist successful applicants in preparing the application to the Canada Research Chair Program and the Canada Foundation for Innovation for salary and start-up funds. Successful applicants will be expected to embrace a team approach to research.

This is an open competition. We welcome applications from within as well as outside of Canada, however, preference will be given to qualified Canadian applicants.

Please forward your resume to:

Dr. Lorne A. Babiuk, Director
Veterinary Infectious Disease Organization
 120 Veterinary Road
 Saskatoon, SK
 S7N 5E3 CANADA
 PH: (306) 966-7475
 FX: (306) 966-7478
 Email: vido.hr@sask.usask.ca

VIDO, governed by the University of Saskatchewan, is committed to the principles of Employment Equity and welcomes applications from all qualified candidates.



MOUNT SINAI
SCHOOL OF
MEDICINE

Research Assistant Professor in Psychiatry

The Neuroinflammation Research Laboratories of the Department of Psychiatry invites applications for a position at the junior level in neurosciences and molecular biology. Preference will be given to establish research in neurodegeneration and cognitive impairment. Successful applicant will have outstanding opportunities to interact with our multidisciplinary Neuropsychiatry Program, including scientists with interests in human genome, Alzheimer's disease and biocomputation. Qualified applicants should send curriculum vitae, statement of research interests and arrange for three letters of reference to **Giulio Pasinetti, MD, PhD, Director of Neuroinflammation Research Laboratories, Department of Psychiatry, Box 1230, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029. EOE.**

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nature neuroscience

seeks an **ASSISTANT EDITOR**

Nature Neuroscience, a leading monthly journal from the publishers of *Nature*, has a position available for an Assistant Editor. The journal publishes high-quality papers in all areas of neuroscience, including molecular, cellular, systems, cognitive and computational studies, and provides a highly visible forum for communicating important advances to a broad readership. Further information may be found on our web site (<http://neurosci.nature.com>).

Applicants should have a strong research background in neuroscience, a broad interest in the subject, excellent literary skills, and a commitment to the communication of scientific ideas. Molecular research experience is an asset, but more important is a willingness and ability to learn new fields. The successful candidate will participate in all aspects of the editorial process, including manuscript selection, commissioning and editing News and Views and Reviews, and writing for the journal. The job also involves attending meetings in the US and abroad, and maintaining contact with the international scientific community. The new editor will join our team in the Manhattan office of the larger publishing group that also produces *Nature Genetics*, *Nature Medicine*, *Nature Biotechnology*, *Nature Structural Biology* and *Nature Immunology*.

Please submit a curriculum vitae, a short (500-1000 words) News and Views-style article on an exciting and newsworthy recent development in any area of neuroscience, and a cover letter explaining your interest in the position to The Editor, *Nature Neuroscience*, 345 Park Avenue South, New York, NY 10010 (fax: 212-696-0978; e-mail: neurosci@natureny.com). Applications should arrive as soon as possible, and **no later than 11 February 2001.**

Program Manager, Basic Research

The American Foundation for AIDS Research (amfAR), the nation's leading nonprofit organization dedicated to the support of basic biomedical, clinical, prevention and public policy aspects of HIV/AIDS research, is seeking a Manager for its Basic Research program at its NYC location. This is a challenging opportunity for the highly motivated scientist interested in playing a unique, catalytic role in accelerating the pace of HIV/AIDS research and helping to achieve significant breakthroughs.

The Manager will provide daily supervision of the Basic Research department and collaborate with scientists and foundation officials in the development and implementation of new general and targeted research and scholars grants and awards. Reporting on and analysis of prior and current activities and frequent communication with grantees, including site visits and providing technical support is required. The position requires interaction and communication with scientists and interpretation of these communications in reports, newsletters and commentaries prepared for the general public and lay Foundation staff.

Qualified candidates will possess a Ph.D. in the biological sciences, knowledge of hands-on scientific research, teaching experience and excellent verbal and written communications skills. Knowledge of HIV/AIDS a plus. Good computer skills with knowledge of database software is preferred.

Excellent benefits and salary is highly competitive and commensurate with experience. Send resume and cover letter with salary requirements to: **amfAR, HR Dept, Job #JL1, 120 Wall Street, 13th Floor, New York, NY 10005.** *amfAR is an equal opportunity employer.* www.amfar.org

Postdoctoral Positions Neurobiology, Stem Cell Biology & Genomics

Department of Human Genetics and Howard Hughes Medical Institute University of Chicago

Seeking highly motivated individuals to embark on innovative projects in neurobiology, stem cell biology, and genomics. Neurobiology projects include: 1) genetic basis for the evolution of the human brain; 2) molecular mechanisms of human and mouse brain malformations; 3) analysis of brain development and function in mice with a proprietary gene-trap technology. Stem cell biology projects focus on: 1) isolation of factors that control pluripotency of stem cells; 2) chromatin-based modulation of gene expression; 3) function of neuronal stem cells. Genomics projects include: 1) development of computational and bioinformatics tools to analyze gene function and evolution *in silico*; 2) whole-genome comparisons across species to identify genes with highly evolved functions. For a partial list of lab research interests, see: <http://www.genes.uchicago.edu/fri/lahnres.html>

Candidates should be highly ambitious, with publications in high-visibility English journals. Send CV via **E-mail attachment** to blahn@genetics.uchicago.edu; or FAX (773) 834-0505; or to **Dr. Bruce Lahn, Department of Human Genetics and HHMI, University of Chicago, 920 East 58th Street - CSLC 507, Chicago, IL 60637.**

The University of Chicago

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2001. The post-genomic era of drug discovery has begun. Aggressive scientists have an unprecedented opportunity to define new directions for pharmaceutical research and to lead the new wave of drug discovery for the treatment of human disease. The Althexis Company is a leader in the application of new drug discovery paradigms for the rapid identification of new molecular targets and the rational and rapid development of small molecule therapeutics. Althexis has a suite of technologies that includes proprietary functional characterization of gene products and modern structure-based methods for discovering novel anti-infective agents. Our scientific leadership has an enviable track record of applying leading-edge technologies to the identification and development of several marketed drugs. Recent expansion of our programs has created opportunities for additional scientific leadership positions within the company.

Molecular Modeler/ Computational Chemist

You will utilize docking technologies and cheminformatics tools to develop pharmacophore models for the discovery and optimization of new lead compounds. You will be a critical component of a multi-disciplinary scientific team. Requirements are a Ph.D. in a relevant science and at least 5 years industrial or academic experience. Molecular modeling experience in structure-based drug design is desirable.

Medicinal/Organic Chemist

You will play a key role in both intramural and sponsored drug discovery programs. In collaboration with computational chemists, X-ray crystallographers, biochemists and microbiologists, you will lead an effort to design and synthesize novel enzyme inhibitors with utility as antibacterial or antiviral agents. Requirements are a Ph.D. in medicinal or synthetic organic chemistry and at least 4 years of leadership experience in drug discovery.

Enzymologist

You will be responsible for leading efforts aimed at characterizing newly identified enzymes, determining specifics of mechanism

of enzyme action and mechanism of inhibition, establishing high throughput primary screens and definitive secondary screens. Requirements are a Ph.D. in enzymology or biochemistry and experience in enzyme kinetics and inhibitor characterization. Experience in drug discovery research programs is a plus. You must be able to work on multiple projects and to communicate effectively with team members.

Biophysical Chemist/Proteomics

You will be a major contributor to refining and expanding a new technology for discovering functions of novel enzyme targets. You will use your understanding of thermodynamics and macromolecular reaction kinetics to characterize enzyme/substrate and protein/ligand systems. Requirements are a Ph.D. in biophysical chemistry or related science and 3-5 years of industrial or postdoctoral experience. Experience in macromolecular structure and function as well as protein expression and purification would be helpful.

Microbiologist/Molecular Geneticist

You will be involved in several drug discovery projects for treatment of bacterial, viral and fungal diseases. You will identify new targets for anti-infective drug discovery and characterize the biological activity of promising new agents. Requirements are a Ph.D. in microbiology or closely related science and 3 or more years of relevant experience. Experience with modern molecular biology, molecular genetics and MIC assays are highly desirable.

Althexis is recruiting a cadre of highly motivated, entrepreneurial scientists with leadership ability who will thrive in and enjoy a corporate culture that encourages and rewards intelligent risk taking and innovative problem solving. In addition to the positions outlined above, we are also looking for experienced, non-Ph.D. scientists in all of the core disciplines of drug discovery. If you are excited by a unique opportunity to apply your drive and hone your skills to make a difference in an area with an intense public health need, then you should get in touch with us right away.

For immediate consideration, send your resume to:

**Scientific Search Committee
The Althexis Company, Inc.
1365 Main Street
Waltham, MA 02451-1624**

POSITIONS OPEN

MONTANA STATE UNIVERSITY BOZEMAN

EXECUTIVE DIRECTOR, Montana State University Big Sky Institute for Science and Natural History. The BSI integrates high-quality research, innovative learning experiences, and a high-technology outreach center focusing on the Greater Yellowstone ecosystem. Responsibilities: Develop and implement BSI's vision and goals; guide long-range planning; expand and manage financial support; manage business affairs, budgeting, recruiting, and supervising personnel. Required: Master's degree or better; relevant professional experience; excellence in outreach, teaching, or research; success in fund raising. Preferred: terminal degree; experience in outreach, teaching, and research; leadership abilities; experience in program development, evaluation, assessment and strategic planning; experience in personnel and finance management; success in building and maintaining partnerships. Screening begins March 1, 2001. Complete application directions must be obtained at [website: www.montana.edu/msuinfo/jobs/proforBSI](http://www.montana.edu/msuinfo/jobs/proforBSI); [website: www.bsi.montana.edu](http://www.bsi.montana.edu) or from: Dianne Ostermiller, 303 Montana Hall, MSU-Bozeman, Bozeman, MT 59717. Telephone: 406-994-2892; FAX: 406-994-4152; e-mail: dianneo@montana.edu. Americans With Disabilities Act/Affirmative Action/Equal Opportunity/Veteran Preferred Employer.

ASSISTANT/ASSOCIATE PROFESSOR.

The Department of Molecular Biology and Immunology of the University of North Texas Health Science Center at Fort Worth is seeking applicants for faculty positions immediately available at the level of Assistant or Associate Professor. Applicants must develop or already have established an independent research program in microbiology and/or microbial pathogenesis. Competitive start-up funds and salary packages are available. Candidates with expertise in bacterial pathogenesis, microbiology, or virology are especially encouraged to apply. Selected candidates will be expected to actively participate in courses for medical and graduate students. Selected candidates will have the opportunity to participate in Doctoral programs partially supported by state funds. Faculty will have the opportunity to also belong to several Institutes for Discovery comprising centers of excellence and work closely with the new Fort Worth medical incubator and our planned Center for Biotechnology. The Health Science Center is a state-supported institution housed in well-equipped facilities. The Center is situated adjacent to the multiple museums of the cultural district of Fort Worth, an attractive and dynamic city with outstanding recreational and cultural attractions, highly favorable cost of living, and sunny climate. Send curriculum vitae; a summary of research interests and goals; plus three letters of recommendation by March 9, 2001, to: **Dr. Ronald H. Goldfarb, Professor and Chairman, Department of Molecular Biology and Immunology and Director, Institute for Cancer Research, University of North Texas Health Science Center, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107-2699.** The University of North Texas Health Science Center at Fort Worth enjoys a smoke-free campus and is an Equal Employment Opportunity/Affirmative Action Institution.

Tenure-track **FACULTY APPOINTMENT** available at any academic rank. Applications will be accepted until the position is filled. In responding, please send curriculum vitae with a description of plans for an independent research program and request three references to send letters to: **Dr. Gerry Litwack, Chairman, Department of Biochemistry and Molecular Pharmacology, Jefferson Medical College, Thomas Jefferson University, 850 BLSB, 233 South 10th Street, Philadelphia, PA 19107.** Thomas Jefferson University is an Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR TENURE TRACK Zoology Miami University Middletown

The Department of Zoology at Miami University has an opening for a broadly trained Biologist with the expertise to introduce molecular genetic techniques into the introductory courses on its campus in Middletown, Ohio. The successful applicant will be expected to teach undergraduate courses in zoology, actively participate in University and community service, and establish and maintain an active research program (specific area of research is open). The Middletown campus, with a new 38,000-square-foot science building housing Biology, Chemistry, Botany, and Microbiology, is an open-admission, commuter campus with an enrollment of 2,800 students, located midway between Cincinnati and Dayton and 25 miles east of the main campus in Oxford. Faculty on the Middletown campus are full members of the Department of Zoology, which is composed of 35 faculty, over 50 Ph.D./M.S. students, and approximately 1,000 majors. The successful candidate will have access to state-of-the-art facilities for molecular, cellular, and whole organism research located on the Oxford campus. Ph.D. required. Send letter of application, curriculum vitae, statement of teaching and research interests, and three letters of recommendation to: **Dr. Alan Cady, Department of Zoology, Miami University Middletown, 4200 East University Boulevard, Middletown, OH 45042.** Review of applications will begin immediately and continue until the position is filled. Position will begin August 2001. Related websites for more information: <http://zoology.muohio.edu> and <http://www.mid.muohio.edu>. Miami University's report, "Campus Crime and Safety," is available at [website: www.muohio.edu/righttoknow](http://www.muohio.edu/righttoknow). A hard copy may be obtained by contacting the Personnel Office. Equal Opportunity in Education and Employment.

FACULTY POSITION BACTERIAL/VIRAL PATHOGENESIS

The Department of Microbiology and Immunology at the University of Arizona in Tucson, Arizona, invites applications for a faculty position in the College of Medicine that will be available in August 2001. Preference will be given to Scientists working in the areas of bacterial or viral pathogenesis with a molecular and/or immunologic focus. This is a full-time, tenure-track position at the **ASSISTANT PROFESSOR** level. Candidates must have a Ph.D. degree or its equivalent, postdoctoral research experience, and evidence of outstanding research accomplishments. New laboratory facilities, substantial start-up funds, and a salary commensurate with experience will be provided. The successful applicant will be expected to develop and maintain a funded research program of high quality and to actively participate in the graduate and medical school teaching programs of the Department. Applicants should send curriculum vitae with a complete list of publications, a summary of research interests and goals, a statement on teaching interest, and names of three references to: **Chair, Search Committee, Department of Microbiology and Immunology, University of Arizona, P.O. Box 245049, Tucson, AZ 85724.** For more information on the Department, please see [website: http://w3.arizona.edu/~mbim/](http://w3.arizona.edu/~mbim/). Review of application material will begin March 1, 2001, and will continue until the position is filled. The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer; Minority/Women/Disability/Veteran.

SEARCH EXTENDED

Search for **ASSISTANT PROFESSOR** in plant physiology/physiology will remain open until position is filled. For details on the position, see [website: http://www.wiu.edu/users/mibiol](http://www.wiu.edu/users/mibiol). **Dr. L. M. O'Flaherty, Chair of Biological Sciences, Western Illinois University, 1 University Circle, Macomb, IL 61455-1390.**

POSITIONS OPEN



SCHOOL FOR MARINE SCIENCE AND TECHNOLOGY

University Of Massachusetts Dartmouth

The School of Marine Science and Technology (SMST) at the University of Massachusetts Dartmouth invites applications for a **TENURE-TRACK FACULTY POSITION** in fish population dynamics at a rank consistent with experience. We seek candidates with a strong mathematics background with demonstrated capability in stock assessments, including commercially important species of the northwest Atlantic continental shelf. Expectations include establishing an extramurally funded research program, advising graduate students, and teaching graduate-level classes. Ph.D. in applied mathematics/fisheries required. Previous teaching experience at the graduate level preferred.

Send curriculum vitae and the names, addresses, e-mail addresses, and telephone numbers of four professional references to: **Fishery Population Dynamics Search, Attention: Joseph C. Deck, Deputy Director, School of Marine Science and Technology, 706 South Rodney French Boulevard, New Bedford, MA 02744.** Review of applications will begin February 19, 2001, and will continue until the position is filled. UMD is an Equal Employment Opportunity/Affirmative Action Employer.

TENURE-TRACK FACULTY POSITION

Microbial Pathogenesis Yale School of Medicine

The Section of Microbial Pathogenesis of the Yale School of Medicine is seeking applicants for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level. We are seeking applicants who are conducting research in any area of microbial pathogenesis. Individuals interested in the cell biology or immunobiology of viral pathogenesis are especially encouraged to apply. The position offers an attractive start-up package, excellent laboratory space, and a stimulating scientific research environment. Candidates should have a Ph.D. and/or M.D. degree(s); suitable postdoctoral research experience; a strong record of research accomplishments; a commitment to develop independent, innovative research programs; and an interest in graduate and medical education. Applicants should submit curriculum vitae, a statement of current and future research interests, and arrange to have three letters of reference sent by March 1, 2001, to: **Chair, Search Committee, Section of Microbial Pathogenesis, Yale School of Medicine, Boyer Center for Molecular Medicine, 295 Congress Avenue, P.O. Box 9812, New Haven, CT 06536.** Yale University is an Equal Opportunity/Affirmative Action Employer. Qualified women and members of underrepresented minority groups are encouraged to apply.

ASSISTANT PROFESSOR BIOLOGY

George Mason University

The Biology Department of George Mason University invites applications for two tenure-track positions at the junior level. We seek applicants who apply functional genomics to study microbial or animal systems at the cellular or organismal level. A microarray facility, core biochemistry laboratory, and cell culture facility are available. The successful candidates will participate in our newly proposed Ph.D. program in biosciences, teach undergraduate and graduate courses, and maintain an extramurally funded research program. Review of applications will begin 15 February 2001 and continue until each position is filled. Please submit curriculum vitae, a brief statement of teaching interests, experience and research plans, and names of three references (with telephone numbers and e-mail addresses) to: **Chair, Search Committee, Biology, George Mason University, MSN 3E1, 4400 University Drive, Fairfax, VA 22030-4444.**

Affirmative Action/Equal Employment Opportunity.

**VETERINARY MEDICAL OFFICER
USDA, AGRICULTURAL RESEARCH SERVICE**

USDA-Agricultural Research Service, Arthropod-Borne Animal Disease Research Laboratory, Laramie, Wyoming (located on the campus of the University of Wyoming) seeks an experienced scientist as a Veterinary Medical Officer (GS-12/13/14) to do research on arboviral diseases and their animal hosts. Incumbent will develop an independent research program on arboviral pathogenesis and epidemiology and participate in team projects with virologists, molecular biologists, and entomologists. Candidate must have a D.V.M. or equivalent degree plus a Ph.D. or equivalent degree and publications in the applicable areas. Demonstrated research experience in virology, microbiology, immunology, molecular biology, and pathology are highly desirable. Specific knowledge of arbovirology, epidemiology, host immune responses, and entomology are desirable. Skill in experimental design and basic statistical analysis are required. Salary: \$51,927 - \$94,862 per annum commensurate with experience. **For further information, contact: Dr. Geoffrey J. Letchworth, Research Leader, 307-766-3600. For application procedures/forms, contact: <http://www.afm.ars.usda.gov/divisions/hrd/hrdhomepage/empopp.htm>. (Job announcement at <http://www.usajobs.opm.gov/wfjic/jobs/BV2578.HTM>) or call/fax Ms. Bobbie Bobango, 307-766-3606/307-766-3500.**

*USDA IS AN EQUAL OPPORTUNITY
PROVIDER AND EMPLOYER.*

**FACULTY POSITION IN BACTERIAL PATHOGENESIS
UCLA**

The Department of Microbiology, Immunology and Molecular Genetics at UCLA is initiating a major recruitment effort in Bacteriology/Bacterial Pathogenesis. Applications are invited for a tenure track faculty position at the rank of Assistant Professor. Applicants should have a Ph.D. and/or M.D. degree, postdoctoral experience and an outstanding record of accomplishment using novel approaches to study bacterial pathogenesis. Specific areas of interest include but are not limited to bacterial-host interactions, microbial immunology, cellular microbiology, physiology of bacterial pathogens, structural biology of virulence determinants, virulence gene expression and genomics/bioinformatics. The successful candidate is expected to develop a vigorous, well-funded research program and participate in the Department's undergraduate, graduate and/or medical school teaching. For full consideration, applications should be received by March 1, 2001; applications will be accepted until the position is filled. A curriculum vitae, selected reprints, a statement of research interests and three letters of recommendation should be sent to:

**Dr. Jeff F. Miller
c/o Ms. Vinh Nguyen
Bacterial Pathogenesis Search Committee
Department of Microbiology and Immunology
UCLA School of Medicine
10833 Le Conte Ave.
Los Angeles, CA 90095-1747
e-mail: vinhn@microbio.ucla.edu**

UCLA is an equal opportunity/affirmative action employer committed to faculty diversity. Applications from women, minorities and the disabled are strongly encouraged.



InforMax, Inc. is the leading global provider of bioinformatics software to academia and industry. We are an exciting, fast-growing company that blends biology, computer science, and business expertise to create state of the art software and services for researchers all over the world.

The Professional Services division at InforMax is led and managed by scientists. We are responsible for insuring that our products are successful in the hands of our customers. Various activities go into achieving this goal, and we work in a creative, dynamic environment with many challenging opportunities. Career development and employee satisfaction are key priorities for the group. We are looking for talented people to join our teams in Bethesda, Maryland and Golden, Colorado.

Positions include:

• **Product Managers**

Lead and manage an interdisciplinary team, creating and improving bioinformatics software products. Requires: Previous managerial experience with bioinformatics software development implementation; Ph.D. plus post-doctoral training in bioinformatics or life science required. (Available in MD)

• **Bioinformatics Support Scientists**

Work with scientists at customer sites to understand and further their research. Requires: extensive experience with bioinformatics methodology and software; familiarity with UNIX and at least one programming language or SQL; excellent communication skills; Ph.D. plus post-doctoral work in bioinformatics or life sciences. (Available in MD and CO)

• **Bioinformatics Quality Assurance Scientists**

Use your critical thinking and bioinformatics analysis skills to test and validate our software systems, and help guide future improvements. Requires: bioinformatics software experience including UNIX; programming language or SQL familiarity; Ph.D. plus post-doctoral work in bioinformatics or life sciences. (Available in MD)

• **Technical Writers**

Write design specifications and manuals for our bioinformatics software products. Requires: Molecular biology and computer experience; excellent writing skills; Bachelor/Master's degree in bioinformatics or life science. (Available in MD and CO)

• **Technical Support Specialists**

Provide training and support to our customers. Requires: Strong background in Molecular Biology and familiarity with and bioinformatics software; Bachelor/Master's degree in life science. (Available in CO)

Please send your resume and cover letter indicating position(s) of interest. Email: employment@informaxinc.com; Fax: (301) 984-1091; Mail: InforMax, Inc., HR Recruiting Manager, 6010 Executive Blvd 10th floor, N. Bethesda, MD 20852. InforMax is proud to ensure that equal talent will always get equal opportunity.

POSITIONS OPEN

The Department of Molecular Biology and Immunology of the University of North Texas Health Science Center at Fort Worth invites applications for a tenure-track position at the level of **ASSISTANT PROFESSOR** to direct our institutional confocal microscopy facility. We are interested in recruiting a Cell Biologist with extensive expertise and experience in microscopy including confocal microscopy, cell and tissue imaging, and fluorescence spectroscopy to address contemporary questions in cell biology and subcellular biochemistry. The successful candidate is expected to function as a collaborating partner in research employing the confocal microscopy facility and to participate in graduate and medical school teaching. Appropriate postdoctoral experience and a strong publication record will be important considerations for the position. The Health Science Center is a state-supported institution housed in well-equipped facilities. The Center is situated adjacent to the multiple museums of the cultural district of Fort Worth, an attractive and dynamic city with outstanding recreational and cultural attractions, highly favorable cost of living, and sunny climate. Applications will be accepted through March 9, 2001. Curriculum vitae, statements of research accomplishments and goals, and three letters of recommendation should be sent to: **Dr. Ronald H. Goldfarb, Professor and Chairman, Department of Molecular Biology and Immunology and Director, Institute for Cancer Research, University of North Texas Health Science Center, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107-2699.** The University of North Texas Health Science Center at Fort Worth enjoys a smoke-free campus and is an Equal Employment Opportunity/Affirmative Action Institution.

MOLECULAR/CELL BIOLOGISTS With Expertise in Signal Transduction and the Cell Cytoskeleton University of Chicago

The Section of Pulmonary and Critical Care Medicine at the University of Chicago invites applications for two tenure-track positions at the **ASSISTANT/ASSOCIATE PROFESSOR** level. Candidates will be expected to have Ph.D. or M.D. Ph.D. training and expertise in the investigation of cellular responses to external stimuli and mechanisms of intracellular signaling or expertise in the role of the cytoskeleton in cellular responses to external stimuli. Recruits are expected to demonstrate high promise for establishing an independently funded research program of relevance to critical illness and human airway disease. Collaboration with active investigations of cellular responses to hypoxia, asthma immunology, airway remodeling, and airway inflammation are expected. Interested applicants should send curriculum vitae, letter of interest with research goals, and names of three references to: **Jesse Hall, M.D., Section Chief, Pulmonary and Critical Care Medicine, MC 6026, University of Chicago, 5847 South Maryland Avenue, Chicago, IL 60637.** E-mail: jhall@medicine.uchicago.edu.

The University of Chicago is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and candidates with disabilities are encouraged to apply.

DEVELOPMENTAL BIOLOGIST

The Department of Biology, State University of West Georgia, is seeking to fill a tenure-track **ASSISTANT PROFESSOR** position for August 2001. The candidate must hold a Ph.D. or equivalent degree in an appropriate field and postdoctoral experience is required. The successful candidate is expected to teach developmental biology and embryology, molecular cell biology, and possibly general biology for majors. He/she is also expected to establish a research program engaging undergraduate and Master's students. Curriculum vitae, statements of teaching philosophy and research interests, and three letters of recommendation should be forwarded to: **Dr. David Osborne, Department of Biology, State University of West Georgia, 1601 Maple Street, Carrollton, GA.** Telephone: 770-836-6547; e-mail: dosborne@westga.edu. For details on the Department, see website: www.westga.edu/~biology.

POSITIONS OPEN

DEPARTMENT HEAD CROP AND SOIL SCIENCE Oregon State University

Oregon State University is seeking an outstanding **SCIENTIST AND ADMINISTRATOR** to be Head of the Department of Crop and Soil Science. The Department is the largest academic department in the university and is involved in undergraduate and graduate teaching, extension, and a wide array of basic to applied research. See website: <http://www.css.orst.edu> for information about the Department and this position. See website: <http://www.orst.edu> for information about OSU. Qualifications include an earned Doctorate in plant or soil science or a closely related discipline, a distinguished record of professional accomplishment, and a demonstrated commitment to excellence. Experience should demonstrate effectiveness in budget administration, policy formulation, program implementation, personnel management and motivation, and public relations. The incumbent must be able to communicate effectively with faculty, staff, students, university administrators, and clients and have an understanding and appreciation of the mission of a land grant, sea grant, and space grant university. Applicants should submit a letter of application (describing how your work experience, qualifications, and interest have prepared you for this position) along with a résumé and the names and contact information for three to five references. Send materials to: **Viki Freeman, Department of Horticulture, Oregon State University, 4017 ALS, Corvallis, OR 97331-7304.** Telephone: 541-737-5475. Contact **Dr. Charles Boyer** for additional information; e-mail: boyerc@bcc.orst.edu. We will accept applications until a suitable candidate is found. Evaluation of candidates will begin on March 1, 2001. Oregon State University is an Affirmative Action/Equal Opportunity Employer and has a policy of being responsive to dual-career needs.

VISITING ASSISTANT PROFESSOR of genetics: The Department of Biology at the University of Central Florida invites applications for a full-time teaching position in genetics at the level of Visiting Assistant Professor (nontenure track) beginning August 2001. Ph.D. in a relevant discipline required. The initial appointment will be for two years with extension possible. Teaching responsibilities include undergraduate, M.S., and Ph.D. courses in genetics. UCF has state-of-the-art teaching facilities and an excellent benefits package. Submit curriculum vitae, statement of teaching philosophy addressing ability to teach undergraduate and advanced genetics classes, and names of three references to: **Dr. Laurence von Kalm, Search Chair, Department of Biology, University of Central Florida, 4000 Central Florida Boulevard, Orlando, FL 32816-2368.** E-mail: lvonkalm@pegasus.cc.ucf.edu. Review of applications will begin March 1, 2001. The University of Central Florida is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. As an agency of the State of Florida, all application materials and selection procedures are available for public review.

ASSISTANT/ASSOCIATE RESEARCH PROFESSOR Eukaryotic Protein Expression and Isolation

The Department of Microbiology and Tropical Medicine at the George Washington University Medical Center (GWUMC) is recruiting for a Research Faculty member with a Ph.D. in biochemistry or microbiology and postdoctoral experience in yeast or baculovirus expression. The candidate should also be experienced in protein purification. Competitive salary and benefits. Please send your curriculum vitae and the names of two references to: **Peter Hotez, M.D., Ph.D., The George Washington University, Microbiology and Tropical Medicine, 2300 Eye Street, N.W., Ross Hall Room 736, Washington, DC 20037.** Review of the applications will begin on February 19, 2001, and continue until the position is filled. The George Washington University is an Equal Employment Opportunity/Affirmative Action Employer.

POSITIONS OPEN

CHAired FACULTY POSITION Computational Molecular Biology and Bioinformatics

The University of Georgia invites applications for an **ENDOWED PROFESSORSHIP** (Regent's Eminent Scholar) in the Department of Biochemistry and Molecular Biology. The successful applicant will be expected to establish a research program firmly grounded in the biology of important systems but employing the mathematical/computational skills needed to tap data emerging from genomic and postgenomic initiatives and to participate in teaching related to these areas. Strong programs exist in genetics, structural genomics, structural biology, computational chemistry, and computer science at UGA (website: www.uga.edu). The successful applicant will play an important role in developing synergy among these programs and in providing a focal point for coordination of statewide bioinformatics efforts. Applicants should hold a Ph.D. or comparable degree and have an internationally recognized research program in an appropriate area. Please send curriculum vitae, three letters of reference, and a short description of future research plans to: **Dr. James Prestegard and Dr. Michael Adams, Search Co-Chairs, Department of Biochemistry and Molecular Biology, University of Georgia, Athens, GA 30602.** Applications should be received by February 1, 2001, with an anticipated start date on or after July 1, 2001. UGA is an Equal Employment Opportunity/Affirmative Action Institution.

DEPARTMENT HEAD BIORESOURCE ENGINEERING Oregon State University

The Department of Bioresource Engineering at Oregon State University is seeking a Department Head in a 12-month tenured position. Applicants should have a Ph.D. in engineering with specific training in any of the areas relevant to bioengineering, hydrologic, or ecological engineering. We seek an individual with an outstanding research and teaching record who possesses the ability to communicate and interact effectively with colleagues, university administrators, students, and the general public. The successful candidate should be able to lead the Department through its ABET/EC2000 accreditation and provide leadership in obtaining federal, foundation, and industry grants. To ensure full consideration, application materials must be received by April 2, 2001. To apply, send letter of application; curriculum vitae; statement of administrative philosophy and experience; research and teaching interests; and three names of references with telephone numbers, addresses, and e-mail addresses to: **Jo-Ann Leong, c/o L. Hoyer, Department of Bioresource Engineering, 116 Gilmore Hall, Oregon State University 97331-3906.** Telephone: 541-737-1834; e-mail: leongj@orst.edu and hoyerl@enr.orst.edu. Oregon State University is an Affirmative Action/Equal Employment Opportunity Employer and has a policy of being responsive to the needs of dual-career couples.

PROTEIN CRYSTALLOGRAPHER University of Georgia

A tenure-track **ASSISTANT PROFESSORSHIP** is available to begin August 1, 2001, in protein crystallography in the Department of Biochemistry and Molecular Biology. Applicants should have a Ph.D. or equivalent degree and at least three years of postdoctoral research experience. The successful candidate is expected to establish an independent research program and to participate in teaching. Excellent facilities and a competitive start-up package are available. Completed applications received by February 15, 2001, are assured of complete review. Applicants should submit a letter describing current and long-term research interests and curriculum vitae and have three reference letters sent to: **Drs. B. C. Wang and Kelley Moremen, Search Co-Chairs, Biochemistry and Molecular Biology, University of Georgia, Athens, GA 30602.** UGA is an Equal Employment Opportunity/Affirmative Action Employer.



HOWARD HUGHES MEDICAL INSTITUTE

The Howard Hughes Medical Institute conducts biomedical research in the areas of cell biology, genetics, immunology, neuroscience and structural biology at over seventy locations around the United States.

HHMI regularly has positions open for research and administrative personnel.

Laboratory Positions:

- Postdoctoral Fellowships
- Research Specialists/Technicians
- Research Secretaries

Administrative Positions:

- Managers
- Administrative Assistants
- Purchasing Coordinators
- Receiving Clerks

Institute employees enjoy competitive salaries and an excellent benefits package. HHMI is an equal opportunity employer. Please visit our website at **www.hhmi.org/jobs** for a listing of available positions.

University of California, Davis School of Medicine Department of Psychiatry

Position #2206 – Neuroimaging Scientist. The Department of Psychiatry at UC Davis is seeking applications for a Neuroimaging Scientist to serve as full time Assistant/Associate/Full Professor in the Ladder Rank series (level commensurate with credentials, with tenure in the School of Medicine for Associate or Full Professor). Candidate must hold M.D. and/or Ph.D. degree and have a demonstrated record of solid academic accomplishment with expertise in neuroimaging research, primarily in structural and/or functional magnetic resonance imaging. The successful candidate will be able to compete for extramural research support, and will be interested in developing a neuroimaging research program. UC Davis has made a major commitment to neuroscience research, and the Dept. of Psychiatry is expanding its neuroimaging program in coordination with the overall growth of clinical neuroscience research. He/she will be expected to collaborate in the development of a larger functional neuroimaging research facility at UC Davis Medical Center that will serve not only his/her own research program but also the research of other clinical and basic neuroscience and medical investigators.

Send curriculum vitae, a letter summarizing past and future research directions, and names of three references to **Dr. David Amaral, Chair, Neuroimaging Search Committee – Position #2206, Department of Psychiatry, UC Davis Medical Center, 2230 Stockton Boulevard, Sacramento, CA 95817**. Applications will be accepted until the position is filled, but not later than June 30, 2001. *The University of California, Davis, is an affirmative action / equal opportunity employer.*

<http://psychiatry.ucdavis.edu/>

National Center for Research Resources (NCRR) - National Institutes of Health



NCRR: Catalyst for Discovery

Associate Director for Clinical Research

The National Center for Research Resources (NCRR) invites applications for the position of Associate Director for Clinical Research (ADCR), NCRR, NIH. One of the four NCRR research areas, the Clinical Research area establishes and supports specialized multi-disciplinary laboratories and shared resources for clinical research; supports specially adapted and professionally staffed clinical research environments; and supports clinical research training and career development of physicians and dentists to become independent clinical investigators. The ADCR serves as a member of the senior leadership of the Center and is responsible for planning, formulation, program review, development, and evaluation of all programs encompassed by the Clinical Research (CR) area, and in the overall administration of the CR area, and will have supervisory authority over administrative and scientific staff. Direction of the CR area includes three complementary sets of programs: 1) a national network of about 75-80 General Clinical Research Centers; 2) a portfolio of regional and national research resources to foster clinical research; and 3) a portfolio of programs for enhancing the interests of medical students in clinical research; career development of young promising physicians; and providing protected time for established clinical investigators. Qualified applicants must possess an M.D. or equivalent combination of experience and training. Candidates must be established scientists with considerable experience in clinical research; be nationally recognized for scientific achievements by the scientific community and considered an authority in his/her scientific field.

To view the full text vacancy announcement and requirements, applicants are strongly encouraged to access the NIH automated vacancy retrieval system at <http://careerhere.nih.gov> and view vacancies within the National Center for Research Resources. Total salary is competitive and will be commensurate with experience of the selectee. Send applications to National Institutes of Health, National Center for Research Resources (NCRR), 31 Center Drive, MSC 2131, Bethesda, MD 20892. For additional information contact the NCRR Personnel Office on (301) 496-1524. Deadline for applications is 3/18/01. Public Health Service Commissioned Officers interested in performing the duties of the position within the Commissioned Corps may submit a resume to the above address.

NIH is an Equal Opportunity Employer

POSITIONS OPEN

FACULTY POSITIONS Department of Biochemistry and Molecular Biology Penn State College of Medicine

Applications are invited for two tenure-track positions at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** rank. We seek individuals that have a record of success (1) in research in human genetics, model genetic systems, or genomics or (2) in using biochemical/biophysical and computational techniques to study macromolecules. Successful candidates must have a Ph.D. and/or M.D.; are expected to establish or to have established (depending on rank) independent, extramurally funded research programs; and are expected to participate in the education of medical and graduate students in the College and in the Life Sciences Consortium of Penn State. Applicants should send curriculum vitae, a one-to-two-page synopsis of research plans, the names and addresses of three references, and indicate whether the application is for (1) to (2) above to: **Search Committee, Department of Biochemistry and Molecular Biology, P.O. Box 850S, The Pennsylvania State University College of Medicine, H171, Hershey, PA 17033-0850**. Review begins January 22, 2001; applications accepted until positions are filled. *Affirmative Action/Equal Opportunity Employer.*

ASSISTANT/ASSOCIATE PROFESSOR TWO FACULTY POSITIONS Tropical Marine Biology

The University of Guam Marine Laboratory invites applications for two tenure-track, 12-month positions in tropical marine biology, each with an initial contract period of three years, available as early as June 2001. Candidates are sought with expertise in (1) community ecology of coral reefs and (2) marine organismal biology including invertebrate, evolutionary, and/or conservation biology. Applicants must have a Ph.D. in a relevant field; a strong record of research accomplishments; ability to teach graduate-level courses in biometrics, evolution, and/or ecology; and a willingness to mentor and supervise both graduate (M.S.) and undergraduate students. Applicants should send curriculum vitae, statement of research and teaching interests and plans, names and contact information of three references, copies of representative publications, and copies of undergraduate and graduate transcripts to: **Marine Biology Search Committee, Human Resources Office, University of Guam, UOG Station, Mangilao, Guam 96923**. Review will begin March 15, 2001. For additional information, contact: **Dr. R. Richmond, Search Committee Chair, e-mail: richmond@uog9.uog.edu**. *An Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR (MEDICAL PHYSIOLOGIST) Center for Medical Education Ball State University Muncie, Indiana

The Muncie Center for Medical Education, a regional center for the Indiana University School of Medicine located on the Ball State University campus, invites applications for a tenure-track fiscal year position at the level of Assistant Professor available June 30, 2001. Responsibilities include establishing an independent research program and participating in a team-taught physiology course for medical students. Minimum qualification: Ph.D. in physiology. Salary is negotiable and is commensurate with experience. Start-up funds are available. Send letter of application listing current research activities and teaching experience, curriculum vitae, and the names and telephone numbers of three references to: **Dr. Douglas A. Triplett, Director, Center for Medical Education, Ball State University, Muncie, IN 47306**. Website: **www.bsue.edu**. Original transcripts will be required before interview. Applications must be postmarked by February 15, 2001.

Ball State University is an Equal Opportunity/Affirmative Action Employer and is strongly and actively committed to diversity within its community.

POSITIONS OPEN

VICE PRESIDENT FOR ACADEMIC AFFAIRS

Arkansas State University-Jonesboro invites nominations and applications for the position of Vice President for Academic Affairs. We seek a dynamic and visionary leader to help us achieve our mission: We pursue and share knowledge within a caring community that prepares students in challenging and diverse ways to become more productive global citizens.

Position: The Vice President is the chief academic officer who advises and reports to the President and who leads the academic community. As a visionary leader, the Vice President must allocate resources to the academic units of the University while overseeing the development, execution, and evaluation of their academic programs. The Vice President will articulate goals to achieve the University mission while maintaining effective relationships with a broad range of internal and external constituents.

Desired qualifications: The candidate must have an earned Doctorate or terminal degree in an academic discipline from an accredited university, evidence of noteworthy scholarship or professional activity, and demonstrated successful higher education administrative responsibility.

The University: Information about Arkansas State University and this position can be found at website: **www.astate.edu/vpaa**. Additional information is available through the contact listed below.

Review of applications will begin March 15, 2001, and continue until the position is filled. To assure full consideration, all materials should be received by March 1, 2001. Interested persons should submit a cover letter and curriculum vitae to:

**Dr. Leslie Wyatt, President
Arkansas State University
P.O. Box 10
State University, AK 72467
Telephone: 870-972-3030
FAX: 870-972-3465
E-mail: president@astate.edu**

The University will make no contacts regarding an applicant until the applicant gives approval. The position is available immediately. *ASU is an Affirmative Action/Equal Opportunity Employer. Women and racial minority candidates are encouraged to apply.*

ASSISTANT PROFESSOR University of Georgia

The Department of Biochemistry and Molecular Biology has an opening for a tenure-track faculty position that can begin August 1, 2001. Applicants should have a Ph.D. or equivalent degree and at least three years of postdoctoral experience. The successful candidate is expected to establish an independent research program and to participate in teaching. Excellent facilities and a competitive start-up package are available. Applicants should submit a letter describing current and long-term research interests and curriculum vitae. Also, request three reference letters to be sent to: **Drs. Alan Przybyla and Michael Terns, Search Co-Chairs, Biochemistry and Molecular Biology, University of Georgia, Athens, GA 30602**. Completed applications received by February 15, 2001, are assured of review. *UGA is an Equal Employment Opportunity/Affirmative Action Employer.*

DEPUTY DIRECTOR

Construction Engineering Research Laboratory, Champaign, IL. Salary: \$82,876 to \$107,738. Applications accepted until February 16, 2001. Information available from: **Amy Miller; Telephone: 217-373-6772; website: www.cecer.army.mil**.

POSITIONS OPEN

FACULTY POSITION BIOMOLECULAR NUTRITIONIST

The Department of Nutrition and Food Sciences is seeking a qualified Scientist to fill a nine-month, tenure-track position in molecular nutritional biochemistry at the rank of **ASSISTANT PROFESSOR**. The successful applicant is expected to establish a strong, extramurally funded research program in the general areas of nutrient-gene interactions or the molecular and cellular basis of food intake, regulation, and utilization. Teaching responsibilities include undergraduate/graduate courses in advanced nutrition, nutritional biochemistry, and/or nutritional molecular biochemistry, with a strong emphasis on advising undergraduate students and mentoring graduate students. Individuals with a Ph.D. in nutrition or related field are invited to apply. Demonstrated expertise using advanced techniques in cell biology, molecular biology, and/or biochemistry is required. Research experience in the molecular control of or signaling pathways involved in energy metabolism and body weight regulation in human or mammalian model systems is highly desirable. Applicants should submit curriculum vitae, a statement of research activities and research plan, a summary of teaching experience, and three letters of reference to: **Dr. Paul S. Kindstedt, Chair, Biomolecular Nutrition Search Committee, Department of Nutrition and Food Sciences, 316 Terrill Hall, University of Vermont, Burlington, VT 05405-0148**. Applications will be reviewed beginning March 1, 2001, until the position is filled. More information about the Department and the position is available at our website: **http://nutrition.uvm.edu**. *The University of Vermont is an Affirmative Action/Equal Opportunity Employer. Women and minorities are strongly encouraged to apply.*

ASSISTANT PROFESSOR Macromolecular NMR Spectroscopy

The Chemistry Department of Johns Hopkins University invites applications for a tenure-track Assistant Professor position with a starting date of January 1, 2002. Applicants should have a strong background in NMR spectroscopy and plans to develop a research program that uses NMR methods in the study of biological macromolecules. The Chemistry Department and the interdepartmental Institute for Biophysical Research provide a stimulating environment of more than 40 outstanding faculty engaged in biochemical and biophysical research (see websites: **www.jhu.edu/~chem** and **/~ibr**). Applicants should submit curriculum vitae and description of research plans and arrange to have three letters of recommendation sent directly to: **Professor David Draper, Search Committee Chair, Department of Chemistry, Johns Hopkins University, 3400 North Charles Street, Baltimore, MD 21210**. Applications will be considered until the position is filled; interviews will commence in February 2001. *Johns Hopkins University is an Affirmative Action / Equal Opportunity Employer and actively encourages interest from minorities and women.*

VETERANS AFFAIRS MEDICAL CENTER KANSAS CITY

Junior **RESEARCH SCIENTIST** with potential for independent funding sought. The Research Program of the Kansas City Veterans Affairs Medical Center includes expertise in cardiology, gastroenterology, health services research, oncology, nephrology, neuroscience, and substance abuse. We are seeking a self-motivated individual with the potential to develop an independent program in any area of biomedical research who would complement existing Scientists. Send research interests, curriculum vitae, and references to: **Kenneth Grasing, M.D., Associate Chief of Staff for Research, Kansas City VA Medical Center, Kansas City, MO 64128**. E-mail: **kenneth.grasing@med.va.gov**. *Equal Employment Opportunity Employer.*



The Department of Biology at the University of Virginia (www.virginia.edu/~biology) announces the opening of two tenure-track **Assistant Professor** positions in **Cellular/Molecular Biology**. Successful applicants will have outstanding research credentials, strong potential to become leaders within their specific research field, and an interest in working synergistically with other labs both within and beyond the Department of Biology. They will enjoy generous and competitive start-up funds, salaries and benefits, faculty appointments at one of America's premier public universities, and the opportunity to live in a community whose quality of life consistently ranks among the highest in the continental US. Candidates who can bring new dimensions to a campus-wide initiative on the molecular and biophysical basis of morphogenesis by the use of cutting edge research approaches and technologies are especially encouraged to apply. Applicants should send a curriculum vitae, a statement of research interests, and the names, addresses, phone numbers and email addresses of three references to: **Cellular/Molecular Biologist Search Committee, Department of Biology, University of Virginia, PO Box 400328, Charlottesville, VA 22904-4328. FEDEX address: Department of Biology, University of Virginia, Gilmer Hall, Room 229, Charlottesville, VA 22903.** The review of applications will begin by January, 2001, and the search will remain open until the positions are filled. *Women and minorities are encouraged to apply. The University of Virginia is an equal opportunity/affirmative action employer.*



**Mayo Clinic
Postdoctoral Fellowship
Cancer Biology**

An NIH-funded postdoctoral position is available immediately for an individual interested in studying the functional and biological consequences of Egf receptor mutations that occur in human brain tumors (please refer to *Cancer Research* 60:1383-1387, 2000). A highly competitive salary and full benefits are available to a Ph.D. (or equivalent) with prior training in molecular biology and/or biochemistry. The Mayo Clinic offers an outstanding environment for conducting cancer research, and its facilities include state-of-the-art laboratories whose activities are supported by excellent institutional core facilities. Mayo Foundation is a non-profit physician led clinical practice integrated with education and research in a unified multi-campus system.

Those interested in applying should send a curriculum vitae as well as the names, addresses, and phone numbers of three references to:

**C. David James, Ph.D.
Division of Experimental Pathology
Mayo Clinic**

**200 First St. SW
Hilton Bldg., Room 820-D
Rochester, MN 55905**

e-mail: james.david@mayo.edu

See also: <http://www.mayo.edu/research/>

Mayo Foundation is an affirmative action and equal opportunity employer and educator.

Senior Research Scientists

SOUTHERN RESEARCH INSTITUTE, a non-for-profit organization, and an affiliate of the University of Alabama at Birmingham (UAB), has annual revenues of approximately \$50 million, and employs approximately 600 professional, technical, and support personnel. Four anti-cancer drugs discovered by Institute researchers are now used in the clinic and a fifth drug protects patients against the side effects of chemo- and radiotherapy. Other new anti-cancer drugs from SRI are in development or undergoing clinical trials. Our researches are also searching for new agents to fight a variety of bacterial, viral and fungal infectious organisms and are especially knowledgeable in the design and synthesis of agents to combat the opportunistic infections that afflict AIDS patients. Our Drug Discovery Division is particularly interested in attracting scientists who use molecular biology in their research and have a desire to join a dynamic organization that takes an interdisciplinary approach to converting basic research into new FDA-approved drugs.

To be considered for these positions which are at the level equivalent to an Assistant Professor in a university setting, applicants must possess a Ph.D. in molecular biology, or other appropriate discipline and at least 4 years of postdoctoral experience. Applicants must show the ability to conduct significant and independent research as judged by publications in peer reviewed journals. We offer a competitive salary and a start-up package that includes salary and technical support to facilitate the successful candidates' transition to reliance on grant-based funding to primarily support their research investigations. Applicants with established research programs and additional experience will also be considered at an appropriate level. Excellent communication and interpersonal skills are essential. We are seeking applications for positions in the following disciplines:

Infectious Disease Research: Applicants with an interest in viral, bacterial or fungal molecular genetics are particularly encouraged to apply. Ability to provide molecular biology support to existing programs in anti-infective therapeutics is an advantage.

Cancer Biology: We are seeking applicants who will complement current areas of interest which include gene therapy, molecular oncology, cancer therapeutics, carcinogenesis and chemoprevention. We are particularly interested in applicants who apply molecular and cellular approaches to identify new pathways and molecules involved in growth control or metastasis that can function as targets for novel therapeutics.

As part of the large biomedical research community in Birmingham, we are committed to providing a stimulating and rewarding work environment. We offer generous benefits, modern equipment and facilities, and an extensive technical library. Close proximity to UAB allows for appointments as graduate teaching faculty and interactions with clinical and academic personnel who are members of the UAB basic science departments, Comprehensive Cancer Center, Cell Matrix and Adhesion Center, Center for AIDS Research, and Center for Biophysical Sciences and Engineering. Birmingham has a high standard of living afforded by a moderate climate, beautiful, wooded terrain, outstanding residential communities and schools, world-class healthcare, and a vibrant arts and entertainment scene. Its cost of living is at or below the national average, as are healthcare and housing costs.

Application letters should be accompanied by a curriculum vitae, names and addresses of three references, and a summary of current research activities and support. The material should be addressed to **Dr. John A. Secrist III, Vice President, Drug Discovery Division, Southern Research Institute, P.O. Box 55305, Birmingham, AL 35255-5305. Must refer to position #846.**

*Southern Research Institute is an Affirmative Action/
Equal Opportunity Employer.*



**SOUTHERN RESEARCH
INSTITUTE**

POSITIONS OPEN

TEACHING FACULTY BIOLOGY/ NATURAL SCIENCES

Our Natural Sciences Department seeks an innovative, energetic **ASSISTANT PROFESSOR** for a full-time tenure-track position beginning September 2001. We seek a broadly educated Biologist with experience in molecular biology techniques. The ideal candidate will have interests in the plant sciences and the ability to teach microbiology. Ability and desire to teach at the introductory level and participate in the college's liberal education program is required. A Ph.D. in biology is required, as is evidence of excellence in teaching at the college level and a philosophical consonance with Colby-Sawyer's programs and mission.

Colby-Sawyer, an independent, coeducational liberal arts college located in the scenic Lake Sunapee region of New Hampshire, is noted for its high quality of life. Consistent academic excellence and fine extracurricular and athletic programs have earned us the reputation of being a college where individuals truly make a difference. Our faculty and staff consider it an important and welcome aspect of their jobs to get to know, encourage, inspire, and offer guidance to our students throughout their college careers. Visit our website: www.colby-sawyer.edu for more information about our unique teaching and learning community.

Candidate screening begins immediately. Priority will be given to candidates who apply by February 9, 2001. Send current curriculum vitae; letter of application; statement of teaching philosophy; and names, telephone numbers, and e-mail addresses of three references to: **Human Resources Department, Colby-Sawyer College, 100 Main Street, New London, NH 03257. E-mail: welcomed@colby-sawyer.edu.**

ENDOWED CHAIR in musculoskeletal/manual medicine: The Michigan State University College of Osteopathic Medicine is seeking applications from individuals who have demonstrated suitable expertise in elucidating the fundamental mechanisms involved in manual medicine. The position is open to individuals who possess an outstanding record of research publication and an appropriate medical or research degree (e.g., D.O., M.D., Ph.D., Sc.D.). The successful applicant will be expected to employ a team approach that engages the broad talents of MSU's clinical and basic science faculty to conduct research. The position entails a tenured **FULL PROFESSORSHIP** in the appropriate department(s) and a salary commensurate with the rank of Endowed Chair Holder. Additional positions may be available for outstanding coworkers.

The Walter F. Patenge Endowed Chair was established in 1979 through the generosity of its namesake, a Michigan industrialist who played a major role in bringing the osteopathic college to MSU in 1971. The endowment provides generous annual funding to the Chair's holder for carrying out scholarship on those aspects of medicine distinctive to osteopathic medicine. Applicants should send curriculum vitae and letter of interest to: **J. Justin McCormick, Ph.D., Chairperson, Patenge Chair Search Committee, MSUCOM Office for Research, A314-A East Fee Hall, East Lansing, MI 48824-1316.** The Office for Research may be reached at Telephone: 517-432-2821. The position is open immediately and will remain posted until filled. *MSU is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.*

Highly intelligent, exceptionally competent individual with strong scientific (though not necessarily medical) background sought by prominent Manhattan family to research and coordinate family medical and health care issues on a full-time basis. Act as liaison with leading medical researchers and consultants in academia and industry, assuming top-level responsibility for all technical, financial, and administrative affairs but without direct responsibility for patient care. Ph.D. or M.D. a plus but not essential. Highly attractive compensation. Résumé and compensation history to: **Box 98, 1200 New York Avenue, Room 911, Washington, DC 20005.**

POSITIONS OPEN

FACULTY POSITION BIOMATERIALS

The Departments of Chemistry and Molecular Biology at the University of Wyoming are seeking to fill a tenure-track position at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. Candidates with training and experience in all areas of biomaterials will be considered. Candidates will be expected to have established an independently funded research program. The successful candidate will become part of an interdepartmental team and participate in developing a research/instruction focus in biomaterials funded by an NSF-EPSCoR grant. The Departments presently consist of 26 faculty members with diverse research interests supported by over \$4 million per year in grants. Salary and start-up packages will be augmented by the NSF award. The University enrolls 11,000 students including approximately 2,500 graduate students. Laramie is located in southeastern Wyoming about 120 miles from Denver, Colorado. For additional information, see websites: <http://www.uwyo.edu/ag/molecbio/mobio.html> or <http://www.uwyo.edu/chemistry/>. Candidates should submit curriculum vitae, description of research plans and teaching philosophy, and three letters of recommendation to: **Biomaterials Search Committee, Department of Molecular Biology, University of Wyoming, Laramie, WY 82071-3944.** Screening of applications will begin on March 1, 2001, and continue until a suitable candidate is identified.

The University of Wyoming is an Affirmative Action/Equal Employment Opportunity Employer.

FACULTY POSITIONS

Applications are invited for tenure-track positions at the **ASSISTANT PROFESSOR** level. Candidates must have a Ph.D., M.D., or equivalent with postdoctoral training. Candidates with current/anticipated national research funding and expertise in cancer biology, gene therapy, cardiovascular, or neuropharmacology employing state-of-the-art techniques are preferred, but outstanding candidates from other areas will be considered. The faculty are expected to carry on a vigorous research program supported by grants. Candidates should send curriculum vitae, description of research plan, and names of three references to: **Krishna C. Agrawal, Ph.D., Regent Professor and Chairman, Department of Pharmacology, Tulane University School of Medicine, New Orleans, LA 70112. Website: <http://www.tmc.tulane.edu/departments/pharmacology/pharm.html>.** *Tulane University is an Equal Opportunity/Affirmative Action Employer.*

ASSOCIATE RESEARCH SCIENTIST DEPARTMENT OF NEUROLOGY Columbia University

An NIH-funded position is available in a laboratory studying presynaptic proteins that modulate transmitter release including alpha-synuclein, presynaptic auto- and heteroreceptors, and second messenger systems. The preferred candidate should hold an M.D. or Ph.D. and be an accomplished Electrophysiologist with experience in electrochemical measurements of neurotransmitter release. Please refer to laboratory's website: www.columbia.edu/~ds43/. Application, including curriculum vitae, three references, and a description of research interests and experience, should be sent to: **Dr. David Sulzer, Assistant Professor, Columbia University, 650 West 168th Street, BB-305, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.**

A **POSTDOCTORAL POSITION** is available to work on the identification and design of inhibitors of a protein involved in tumor development and metastasis. Experience with mutagenesis, protein design, phage display, biophysical approaches to protein-protein interactions, and kinetics is desirable. Please send curriculum vitae to: **Dr. Robert Shapiro, Center for Biochemical and Biophysical Sciences and Medicine, Harvard Medical School, Mudd Building, 250 Longwood Avenue, Boston, MA 02115. E-mail: Robert_Shapiro@hms.harvard.edu.**

POSITIONS OPEN

PLANT BIODIVERSITY AND CONSERVATION BIOLOGY

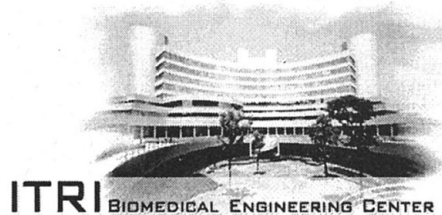
The Department of Plant Biology seeks to fill a tenure-track position at the **ASSISTANT PROFESSOR** level in the area of plant biodiversity and conservation biology. The successful candidate must have a Ph.D., a strong record of research accomplishments, and will be expected to develop an externally funded research program in his/her area of expertise. Postdoctoral research training and demonstrated excellence in undergraduate and/or graduate teaching is desirable. The research should focus upon some aspect of applied conservation biology such as (but not limited to) rare plants, invasive plants, or reproductive biology and should utilize modern genetic techniques applied at the species and/or population level. The research may involve any group of plants or fungi but should have a strong field component. The primary teaching responsibility at the undergraduate level will be in our new program, Teaching Excellence in Math and Science (TEMS), specifically a course titled Integrated Science. Development of upper-level courses in the area of expertise is also expected. For more information on the Department, visit our website: <http://www.science.siu.edu/plant-biology/index.html>. The deadline for receipt of applications is March 15, 2001, and the position is available starting July 15, 2001. Applications should include curriculum vitae, detailed statements of research goals and teaching interests, representative publications, and three letters of reference sent to: **Dr. Daniel Nickrent, Chair of Search Committee, Department of Plant Biology, Southern Illinois University, Carbondale, IL 62901-6509. E-mail: nickrent@plant.siu.edu.** *Southern Illinois University Carbondale is an Affirmative Action/Equal Opportunity Employer. Qualified women and minorities are encouraged to apply.*

POSTDOCTORAL RESEARCH ASSOCIATE POSITIONS

Postdoctoral Research Associate positions are available in the Center for Bio/Molecular Science and Engineering of the Naval Research Laboratory. Applications are currently sought for four Postdoctoral positions in the fields of (1) developmental neurobiology with experience in cell culture, Ca²⁺ imaging, and/or electrophysiology (Principal Investigator: **W. Ma, Ph.D.; e-mail: wma@cbmse.nrl.navy.mil**); (2) biomedical/electrical engineering with interests in bioelectronics and neural systems modeling (Principal Investigator: **J. J. Pancrazio, Ph.D.; e-mail: jxp@cbmse.nrl.navy.mil**); (3) biochemistry/molecular biology with an emphasis in microbial pathogenesis (Principal Investigator: **J. D. Andreadis, Ph.D.; e-mail: jxa@ccsalpha4.nrl.navy.mil**); (4) bioinformatics and genomics for cDNA microarray studies (Principal Investigator: **D. A. Stenger, Ph.D.; e-mail: dstenger@cbmse.nrl.navy.mil**). These positions require a Ph.D. in a relevant field with less than five years of previous postdoctoral experience. Starting salaries are \$52,000 per year, and opportunities are excellent for transition to permanent status after a successful postdoctoral tenure. Interested applicants should send their curriculum vitae and the names of two references by e-mail (or regular mail) to the respective Principal Investigators. The mailing address for each Principal Investigator is: **CBMSE, Code 6910, Naval Research Laboratory, Washington, DC 20375. Only U.S. citizens or permanent residents can be considered for these positions.**

Division of Cardiology, University Hospitals of Cleveland and Case Western Reserve University, is seeking a Physician and/or Research Scientist at the **ASSISTANT or ASSOCIATE PROFESSOR** level. We are expanding in the area of vascular biology, but all areas of research will be considered. Excellent start-up package and laboratory space are available. Send curriculum vitae, statement of research plans, and three letters of recommendation to: **Molecular Cardiovascular Search Committee, Attention: Frank Brozovich, M.D., Ph.D., University Hospitals of Cleveland, 11100 Euclid Avenue, Division of Cardiology, LKS Room 3105, Cleveland, OH 44106-5038.**

GLOBAL OPPORTUNITIES



**Innovative
Technologies
for
Better Life**

BMEC is located in Hsinchu, 45 miles south of Taipei. The center has 250 employees including 80 PhD and 100 MS. Adjacent to National Tsing Hua University, National Chiao Tung University and Science-Based Industrial Park, the institute offers an excellent R&D environment and fast growing opportunities for technology innovation and commercialization.

Please send resume to:

Ms. Yi-Wen Lai, Personnel
Biomedical Engineering Center, ITRI
195-85 Section 4, Chung Hsing Rd., Bldg 53, 2F
Chutung, Hsinchu, Taiwan, ROC
Tel: 886-3-591-2129
Fax: 886-3-591-0098
E-mail: 880323@itri.org.tw

Technology and Business Management Opportunities In Biomedical Engineering R&D

Biomedical Engineering Center (BMEC) of the Industrial Technology Research Institute (ITRI), being the leading integrated biomedical engineering R&D institute in Taiwan, ROC, has created exceptional career opportunities for motivated research scientists and technology and business managers. Positions are open on:

Technical Directors, Business Managers, Project Leaders, and Research Scientists and Engineers in the following areas:

- Genomics research, biochip and bioinformatics
- Drug screening, lead optimization, peptidomimetics
- Tissue engineering and biomaterials

Successful candidates will have a Ph.D. and minimum of 3 years of experience in advanced medical engineering technology. Candidates have strong communication skills and the ability to interact with a multidisciplinary team are essential. Individuals with a demonstrated experience to lead a group of professionals are encouraged to apply.



Biomedical Engineering Center
Industrial Technology Research Institute

DIRECTOR OF THE CURE DIGESTIVE DISEASES RESEARCH CENTER

DIVISION OF DIGESTIVE DISEASES
UCLA SCHOOL OF MEDICINE

**DIVISION OF GASTROENTEROLOGY
AND HEPATOLOGY**
**VA GREATER LOS ANGELES
HEALTHCARE SYSTEM**

Applications are invited from physician-scientists for the Director of the CURE Digestive Diseases Research Center (DDRC), a leading international center for the study of digestive physiology and disease. We are seeking candidates with a distinguished record of scholarly and creative achievement in gastroenterology or related discipline. A candidate's area of interest should complement the existing strengths at CURE DDRC. Applicants should have a demonstrated ability to be a leader in research, education and clinical medicine. Evidence should include publications, grant support, service, and career development of junior physicians/scientists. The Director will hold a tenured professional position in the Division of Digestive Diseases, a UCLA endowed Chair, and a VA position.

Applications and/or nominations should be forwarded to:

Dr. Ernest M. Wright
Chair, CURE DDRC Search Committee
Department of Physiology
UCLA School of Medicine
Los Angeles, CA 90095-1751
FAX: 310-206-5886
Email: ewright@mednet.ucla.edu

*UCLA and the Department of Veterans Affairs are
Equal Opportunity/Affirmative Action Employers.*

EUROPEAN OPPORTUNITIES

Post-Doctoral Research Assistant in Bacterial Protein Secretion (Ref: 01/F604A)

Department of Microbiology and Immunobiology

Applications are invited for this position in Dr. Ian Henderson's Research Group, funded by the British Biotechnology and Biological Sciences Research Council. Dr. Henderson's group is interested in characterising a family of Gram-negative bacterial proteins termed autotransporters. Evidence suggests that these proteins may use several mechanisms for transport across the inner membrane. This project seeks to characterise the steps involved in inner membrane secretion of these proteins. Applicants must have an undergraduate degree, or equivalent, in a relevant scientific subject and hold, or be close to submitting, a PhD or equivalent recognised qualification in molecular bacteriology or biochemistry. Full criteria will be listed in the further particulars for the post. This post may entail considerable travelling to conduct research at collaborators labs at NIH, and University of Maryland. The position is available immediately for February 2001 for a period of one year initially, with the potential for renewal for a further 2 years. For informal inquiries or to arrange visits to the laboratory, applicants should contact Dr Martin Antonio (m.antonio@qub.ac.uk, 028 90263044).

Salary Scale: RA1A £ 16,776 - £25,215 per annum. Placement on the scale will be subject to age, experience, qualifications and available funding. Normal placement for a new postdoc is £18,732.

Closing date: 5.00 pm, Friday 2 February 2001. It is anticipated that interviews for the position will be held on 23 February 2001.

Applicants, quoting reference number(s), may obtain further particulars from the address below.

The University is committed to equal opportunities and to selection on merit. It therefore welcomes applications from all sections of society.

Fixed term contract posts are available for the stated period in the first instance but in particular circumstances may be renewed or made permanent subject to availability of funding.

Queen's University
Personnel Department,
Belfast, BT7 1NN.
Tel (028) 90273044 or
(028) 90273854
(answering machine) or
Fax (028) 90324944 or
e-mail on personnel@qub.ac.uk



**Queen's University
Belfast**

POSITIONS OPEN



SUPERVISORY PLANT PHYSIOLOGIST or SUPERVISORY RESEARCH CHEMIST or SUPERVISORY RESEARCH GENETICIST (PLANTS)

(Interdisciplinary)

The U.S. Department of Agriculture, Agriculture Research Service, Wheat Genetics, Quality, Physiology, and Plant Disease Research Unit, Pullman, Washington (located on the campus of Washington State University), invites applications for the position of **RESEARCH LEADER**, GS-14/15 (\$70,457 to \$107,738 per annum; salary commensurate with experience). The Research Leader will lead a dynamic five-Scientist team to address issues important in the production of wheat germ plasma and varieties with improved yield, agronomic characteristics, pest and disease resistance, and milling and quality for end-product utilization. The Research Leader also conducts a personal research program. A Ph.D. or equivalent in plant physiology, biochemistry, molecular biology, cereal chemistry, plant genetics, or a closely related field is desired. This is a competitive, permanent appointment and U.S. citizenship is required. Applications must be marked, ARS-X1W-1101. For specific application procedures and requirements, please call Ms. Pamela Dean; Telephone: 509-335-3238; e-mail: pdemes@wsu.edu. You may obtain a copy of the vacancy announcement from Ms. Dean or from the ARS website: <http://www.ars.usda.gov/afm/hrd/hrd/resjobs/index.html> under announcement ARS-X1W-1101. Applications must be postmarked by February 26, 2001. ARS is an Equal Opportunity Provider and Employer. Women and minorities are encouraged to apply.

RESEARCH ASSOCIATE NORTHWESTERN UNIVERSITY

Molecular biology laboratory seeks Ph.D. in anatomy/embryology or equivalent to participate in active research program. Research focus on nuclear hormone receptors with emphasis in endocrinology and sex determination. Desirable skills include animal surgery, histology, immunohistochemistry, and microscopy. Responsibilities include oversight of the mouse breeding colony (fewer than 1,000 animals, targeted mutants, and transgenics) with substantial hands-on animal management. Experience maintaining large mouse colonies and solid practical and theoretical knowledge of genetics and complex (multigene) crosses required. Salary commensurate with experience. Excellent benefits, academic environment. Reply with curriculum vitae to: Jeffrey Weiss, Ph.D., Northwestern University, S217, 303 East Chicago Avenue, Chicago, IL 60611. E-mail: jeff-weiss@northwestern.edu. Northwestern University is an Equal Opportunity/Affirmative Action Educator and Employer.

RESEARCH SCIENTIST: Principal wanted by structure-based drug design company in Exton, Pennsylvania. Must have Ph.D. (or equivalent) in chemistry or related field plus three years of experience developing advanced computation tools for chemical modeling and simulation including design of Web/Windows-based GUI under MS Windows. Experience may be obtained prior to Ph.D. Send résumé to: Job Code: CAS004, 3-Dimensional Pharmaceuticals, Eagleview Corporate Center, 665 Stockton Drive, Suite 104, Exton, PA 19341. No telephone calls.

RESEARCH ASSISTANT, molecular genetics, utilizing human cancer specimens, mutation analysis, Northern and Western blot analysis, immunohistochemistry, and promoter analysis of tumor suppressor genes. Send curriculum vitae to: Joanne McCafferty, Human Resources Department, The Children's Hospital of Philadelphia, 3535 Market Street, Ninth Floor, Philadelphia, PA 19101.

POSITIONS OPEN

TENURE-TRACK FACULTY POSITION University of North Carolina at Charlotte

The University of North Carolina at Charlotte (UNCC) is seeking applications for a tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level in the general area of cell biology to begin fall of 2001. UNC Charlotte is a rapidly expanding university committed to research and teaching excellence. Participation and collaboration with faculty in a newly established interdisciplinary Ph.D. program in biology (biomedicine and biotechnology) will be required as well as participation in graduate (M.S.) and undergraduate (B.S., B.A.) programs. Successful applicants are expected to have a Ph.D. with significant postdoctoral experience and to develop and maintain an extramurally funded research program. For further information about these positions, the University, the Department of Biology, the interdisciplinary Ph.D. program, and the research areas of participating faculty, please see our website: <http://www.bioweb.uncc.edu>. Applicants should submit a complete résumé, a description of research interests, and names of at least three references to: **Chair of the Search Committee, Department of Biology, The University of North Carolina at Charlotte, 9201 University City Boulevard, Charlotte, NC 28223-0001**. Consideration of applications will begin March 1, 2001, and continue until the position is filled. UNCC is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSISTANT PROFESSORSHIP

The Cardiology Research Laboratories of The Children's Hospital of Philadelphia (CHOP) seek an individual with an interest in developmental biology. The position will involve basic investigations concerning development, its impact on cardiovascular medicine, and potential relationships to tissue engineering. Research experience should include familiarity with xenopus techniques and success in competing for peer-reviewed funding. The primary academic appointments will be **ASSISTANT SCIENTIST**, the Joseph Stokes Research Institute (CHOP), and **ASSISTANT PROFESSOR**, Research Track, Department of Pediatrics, University of Pennsylvania School of Medicine. Qualified individuals (Ph.D. and/or M.D.) should send their curriculum vitae and three letters of recommendation to:

Robert J. Levy, M.D.
Director, Cardiology Research Laboratories
The Children's Hospital of Philadelphia
Abramson Research Building, Suite 702
3516 Civic Center Boulevard
Philadelphia, PA 19104-4318

The Children's Hospital of Philadelphia, a University of Pennsylvania School of Medicine affiliate, is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

UNIVERSITY OF FLORIDA

Seeks an **ASSISTANT/ASSOCIATE PROFESSOR** or a **CLINICAL ASSISTANT/CLINICAL ASSOCIATE PROFESSOR** in the Department of Medicine, Division of Dermatology. M.D. degree. Responsibilities include care for the skin, hair, and nails as a Board-eligible Dermatologist and all that this training encompasses. Salary and benefits commensurate with experience. Recruiting deadline: January 31, 2001. Anticipated starting date: July 1, 2001. Please reply with curriculum vitae to: **Francisco Ramos-Caro, M.D.**, Associate Professor, Department of Medicine, Box 100277, JHMHHC, Gainesville, FL 32610. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available to study mechanisms of inherited retinal degenerations using molecular biology, biochemistry, and cell biology approaches. Please contact: **Dr. Tiansen Li**, Massachusetts Eye and Ear Infirmary, 243 Charles Street, Boston, MA 02114. Telephone: 617-573-3904. FAX: 617-573-3216; e-mail: tli@meci.harvard.edu; website: www.eri.harvard.edu/training/index.html and click on the link to T.Li.

POSITIONS OPEN



RESEARCH PLANT PATHOLOGIST BACTERIOLOGY

The Agricultural Research Service, U.S. National Arboretum, Floral and Nursery Plants Research Unit, in Beltsville, Maryland, is seeking a permanent Research Plant Pathologist, GS-11/12/13, to conduct research on important bacterial diseases of floral and woody crops incited by, for example, *Xanthomonas*, *Pseudomonas*, *Erwinia*, and *Xylella*. Salary range: \$42,724 to \$79,155 per annum plus benefits (plus projected 3.8% salary increase in January 2001). Applicants must have qualifying education and/or experience that provides (1) knowledge of plant pathology; (2) knowledge of bacterial genetics as applied to the study of plants; (3) skill in bacteriological methods including isolation, culturing, and identification; (4) knowledge of principles, practices, and procedures of seed and vegetative plant propagation; (5) skill in molecular biology methods and techniques; and (6) skill in designing, planning, and conducting research and publishing results in peer-reviewed journals. U.S. citizenship is required. For research program information, contact: **Dr. John Hammond**; Telephone: 301-504-6570. To address specific qualification requirements and application instructions, applicants must request a copy of Vacancy Announcement ARS-X1E-1126 by calling Telephone: 301-504-1484; website: www.ars.usda.gov. Applications must be postmarked by March 5, 2001. U.S. Department of Agriculture, ARS, is an Equal Opportunity Provider and Employer.

The University of Massachusetts Dartmouth invites applications for a tenure-track position (**ASSISTANT PROFESSOR**) in some area of molecular or cellular genetics effective 1 September 2001. The appointee will be expected to (1) teach a lecture/laboratory course in genetics for undergraduate and graduate majors, (2) participate in the core curriculum for first- and second-year biology majors and/or general offerings for nonmajors, (3) establish a research program involving students in the area of expertise, and (4) advise majors and other students interested in biology. A Ph.D. in an appropriate area of biology and relevant teaching experience are required. Please submit application, which includes a statement of research interests; teaching philosophy and experience; current curriculum vitae; and names addresses, and telephone numbers of four professional references, to: **Dr. Donald S. Douglas, Chair, Department of Biology, University of Massachusetts Dartmouth, 285 Old Westport Road, North Dartmouth, MA 02747-2300**. E-mail: ddouglas@umassd.edu. Review of applications will begin 16 February 2001 and continue until the position is filled. UMass Dartmouth is an Equal Employment Opportunity/Affirmative Action Employer.

The Department of Bioscience, Salem International University, seeks an **ASSISTANT PROFESSOR** in plant molecular biology to teach molecular genetics and protein structure at the undergraduate and M.S. graduate level. The candidate will be expected to establish a vigorous research program in plant molecular biology in the area of plant promoters and regulation of gene expression and will be expected to collaborate with department faculty. A Ph.D. in plant molecular biology or closely related field and experience in plant promoters and transformation are required. Postdoctoral experience is desired. Collaboration will be in the area of monocot transformation with a long-term goal of production of vaccines for avian and mammalian systems. Send résumé, reprints of publications, and a list of three references to: **Provost's Office, Salem International University, 223 West Main Street, P.O. Box 500, Salem, WV 26426**. Telephone: 1-800-283-4562, extension 344; e-mail: rogers@salemiau.edu. Equal Opportunity Employer/Affirmative Action.



The Global Crop Protection Federation (GCPF) represents the global agriculture life science industry. It leads a network of 75 regional and national associations and their member companies such as Aventis CropScience, BASF, Bayer, Dow AgroSciences, DuPont, FMC, Monsanto, Sumitomo and Syngenta.

GCPF's primary dialogue partners include international organisations involved in global policy matters related to agriculture, food, trade, industry, health and the environment such as FAO, WHO, UNEP, OECD, the World Bank and WTO.

The federation is currently undergoing a major change. The new global federation, whilst continuing its international activities in relation to agrochemicals, will develop international representation activities in agricultural biotechnology, increase its focus on communication and societal issues, and strengthen its stewardship and sustainability profile.

To lead this change, the federation is developing a whole new team of professionals. The core characteristics of the team members should be vision and intellectual excellence. The success of the federation will depend not only on teamwork and information sharing, but also on individuals demonstrating political sensitivity and empathy towards the federation's stakeholders.

GCPF has an immediate vacancy for a (m/f)

Manager - International Scientific and Regulatory Affairs

This Brussels-based position will be the focus of responsibility for global coordination and leadership on technical, scientific and regulatory activities related to the plant life science industry. In particular: • Representation and liaison with international organisations on all scientific and regulatory matters related to agrochemicals and agriculture biotechnology • Development of industry positions on key technical, scientific and regulatory issues • Co-ordination of expert technical resources and infrastructure within the industry • Development of a communication dimension to industry positions to key technical, scientific and regulatory issues.

This person will report to the Director General. Successful candidates will have had at least 5 years of proven success with the strategic management of scientific and regulatory issues related to agrochemicals and agriculture biotechnology at the international level. An appropriate university degree, scientific excellence and mastering of risk analysis concepts are essential requirements, as is the ability to motivate a diverse group of people in associations and companies on a global scale.

A sound understanding and interest in the political and societal issues related to agriculture and food is necessary for this high-profile role. Experience of dealing with senior members of relevant governmental and non-governmental organisations around the world would be useful. Fluent written and spoken English is mandatory, while other languages would be a distinct advantage. Must be willing to travel internationally.

This position offers an attractive compensation package related to experience and qualifications. Interested candidates should send their CV and a covering letter to: Director General, Global Crop Protection Federation, avenue Louise 143, B-1050 Brussels. Tel.: +32 2 542 04 10. Fax: +32 2 542 04 19. E-mail: gcpf@pophost.eunet.be

Global
Crop
Protection
Federation

EUROPEAN OPPORTUNITIES

MRC LABORATORY OF MOLECULAR BIOLOGY - CAMBRIDGE

Postdoctoral Research Associate

A position is available to work on the structure of ribosomes in various functional states using a variety of techniques including x-ray crystallography. An example of the work can be found in this issue of Science.

The candidate should have a recent PhD and prior experience in macromolecular crystallography or in the biochemistry of protein-nucleic acid complexes, preferably both. The LMB offers a highly interactive environment for research, and has contributed to the training of leading scientists for several decades.

The position is for a period of 2-3 years to start as soon as possible. The starting salary is likely to be in the region of £20,000 - £24,000 per annum or higher based on qualifications and experience. This will be supported by a performance related pay scheme and MRC Pension Scheme. The site has excellent sports and social facilities.

Further information can be obtained by contacting Venki Ramakrishnan, e-mail: ramak@mrc-lmb.cam.ac.uk

To apply please send a copy of your CV, including the names and addresses of two referees who can be contacted prior to interview. Please quote the reference SS/101/8 and e-mail to: recruit@mrc-lmb.cam.ac.uk or post to Lesley Flood, Personnel Assistant, MRC Centre, Hills Road, Cambridge CB2 2QH.

Closing date: 19 February 2001.

'Leading Science for Better Health'

The Medical Research Council is an Equal Opportunities Employer and operates a strict no smoking policy.

MRC
Medical Research Council

Full Professorship in Molecular Evolution (C4)

Available as of 1 October 2001.

Applicants should have an outstanding academic record both in teaching and research, and also have proven leadership qualities. All fields of academic enquiry related to molecular evolution will be considered, but considerable experience in molecular biology and bioinformatics is a prerequisite. The position involves participation in teaching molecular biology in undergraduate and graduate programs of the Faculty of Biology.

Adequate facilities and substantial support come with the position. For further information about University of Heidelberg and the Faculty of Biology visit our website <http://www.uni-heidelberg.de>

According to Section 1 Paragraph 67 of the Universitätsgesetz (Regulations for Universities), the contractual relationship of a University professor, on the occasion of his/her first appointment, must be, in principle, on a fixed-term basis. Exceptions can be made if candidates from abroad or from outside the university system otherwise would not accept such positions. A renewed application procedure is not required if the contractual is to be extended after the fixed term has expired.

The University of Heidelberg is interested in raising the number of female professors and encourages women to apply.

Applications with curriculum vitae, list of publications and major grant applications, names and addresses of referees, and a short description of future research plans should be sent within 6 weeks after announcement to:

Prof. Dr. Michael Wink (Chairman of the Search Committee), Institute of Pharmaceutical Biology, Im Neuenheimer Feld 364, D-69120 Heidelberg, Germany (phone: +49 6221 54 58 80 e-mail: wink@uni-hd.de)

The University of Heidelberg is an Equal Opportunities Employer.

GLOBAL OPPORTUNITIES



NATIONAL UNIVERSITY of SINGAPORE

Department of Obstetrics & Gynaecology

Applications are invited for the post of **Research Fellow** (2 positions) in the Department of Obstetrics & Gynaecology to work on the research project "**Human Embryonic Stem Cell Biology**".

Having initiated early human ES cell work in 1994, a team at NUS have developed several human embryonic stem cell lines for research and application using ethically approved Ministry of Health, Singapore, and National Institutes of Health, USA guidelines. Its specific research program aims to direct human ES cells along cardiomyocytes. Several approaches are expected to be attempted.

Requirements

Candidates should possess a PhD degree in cell, molecular or developmental biology with experience in somatic or ES cell differentiation and are expected to take leadership roles in this project.

Terms & Conditions

- The appointment is tenable for an initial period of two years
- Gross emoluments will be commensurate with qualifications and experience of the candidate
- Leave and limited medical benefits will be provided

Applications

Interested candidates should submit their applications, giving their detailed curriculum vitae, together with copies of their academic certificates, transcripts of detailed results, and three reference letters by 8 February 2001 to:

Professor Ariff Bongso
Department of Obstetrics & Gynaecology
National University Hospital, Kent Ridge, Singapore 119074
Fax: 65-7794753; e-mail: obgbongs@nus.edu.sg

(Only shortlisted candidates will be notified.)

Division Chief

The Hazardous Materials Response Division of NOAA's National Ocean Service, Office of Response and Restoration is seeking a senior-level scientist for Division Chief. Duties include managing a diverse group of scientists and programmers who work in the areas of emergency response, research, numerical modeling, and product development. The division is responsible for providing scientific advice and technical support during oil or hazardous materials spills or other catastrophic events in the marine environment. The Chief is responsible for representing the division throughout NOAA, other federal and state agencies and to members of the spill response community both domestically and abroad, and for setting research and program priorities and strategic direction for a multi-million dollar program. Salary is \$84,757 to \$110,180 per annum depending on experience and may be filled as a Supervisory Physical Scientist, GS1301-15, or as a Supervisory Oceanographer, GS-1360-15. Those with strong technical and leadership skills may get application information from Pete Macias (206) 526-6048; pete.macias@noaa.gov or by reviewing the announcements on the internet at www.usajobs.opm.gov. There are two separate announcement numbers depending upon whether one has Federal employee status. The announcement numbers for those with federal employee status are W/NOS/010092.PMA for the Supervisory Oceanographer and W/NOS/010092.PMB for the Supervisory Physical Scientist. The announcement numbers for those without federal employee status are FW0089 for the Supervisory Physical Scientist and FW0090 for the Supervisory Oceanographer. Both announcements close on March 30, 2001. EOE

GLOBAL OPPORTUNITIES

Fellowship Program for Postdoctoral Research in Japan

In
Scientific, Technical, Engineering,
and
Medical fields
at National Research Institutes

Details available on web site:
<http://stafellow.jst.go.jp/index.html>

or

Department of International Affairs
 Japan Science and Technology
 Corporation (JST)

Department of Pharmacology University of Minnesota Medical School Assistant Professor - Tenure Track

The Department of Pharmacology ([website: www.pharmacology.med.umn.edu](http://www.pharmacology.med.umn.edu)) at the University of Minnesota Medical School invites applications for a tenure track appointment at the rank of **Assistant Professor**. Requirements for the position include a Ph.D. degree in pharmacology or some other basic medical science, or an M.D. degree, and at least 2 years of post-doctoral research experience. Applicants must have a strong record of research accomplishments, as documented by publications in leading peer-reviewed journals. Successful candidates will be expected to develop an innovative, internationally competitive research program supported by extramural funding, and to participate in teaching undergraduate, graduate and medical courses in pharmacology. Applicants using cellular, molecular, genetic or biophysical techniques to study problems relevant to pharmacological sciences are encouraged to apply.

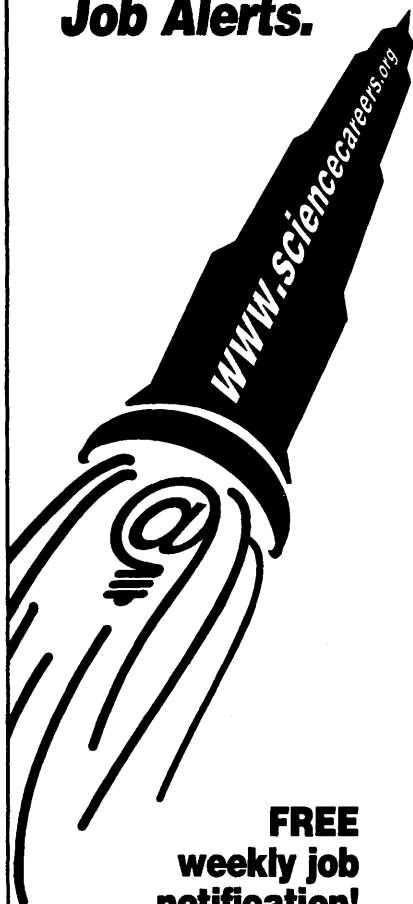
Interested candidates should send their curriculum vitae, reprints of important publications, a brief statement of research plans and the names of three references to:

Ping-Yee Law
Search Committee Chair
Department of Pharmacology
University of Minnesota
6-120 Jackson Hall
321 Church Street SE
Minneapolis, MN 55455-0217

Review of applications will begin February 8, 2001. The position will remain open until filled.

University of Minnesota is an equal opportunity educator/employer and offers an excellent academic research environment.

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EUROPEAN OPPORTUNITIES



Pharmaceuticals

Database administrator for RSR

Who we are

As part of Roche's global pharmaceutical research organization, our group is responsible for the development of new genetic high-throughput DNA sequencing and SNP screening technologies with a major focus on pharmacogenetic studies using the Roche Sample Repository (RSR).

The position

As a database administrator you will build up, maintain and improve a clinical genotyping database for the Roche Sample Repository to support genotyping in clinical trials and association studies for the discovery of new genes and drug targets in complex human diseases. You will also integrate different types of genetic and clinical data as well as data from proteomics and gene expression profiling and interact with geneticists, bioinformaticians and biostatisticians.

Who you are

You have experience in administering ORACLE databases and Visual Basic programming. A bio-molecular background and interest in **genetics/genomics** will be a plus, as will experience either with Activity Base or with robotics programming. You are interested in interdisciplinary **teamwork** and have good communication skills in **English**.

Who to contact

If your background and experience fit the above profile, and you are interested in this position, please send your application with full supporting documentation to: F. Hoffmann-La Roche Ltd, Mr Werner Aschwanden, PSPB, 52/205, P.O. Box, CH-4070 Basel, quoting reference: As3950.

POSITIONS OPEN

POSTDOCTORAL FELLOW Two Positions (20UC3063, 20UC3064) University of Cincinnati

Department of Pathology/Laboratory Medicine

Position available to study the role of chromosomal architecture and gene proximity in generation of chromosomal rearrangements after radiation exposure (see *Science* 290:138-141, 2000). Minimum qualifications: A Doctoral degree and at least one year of research experience in microbiology including PCR and cell culture are required. Experience with cell irradiation or quantitative/real-time PCR is preferred but not required. Highly motivated individuals who would like to develop expertise in a new area of cell biology are encouraged to apply. Résumés accepted until filled. Please send résumé (noting control number) to: Yuri Nikiforov, M.D., Ph.D., Department of Pathology, University of Cincinnati, P.O. Box 670529, Cincinnati, OH 45267-0529. E-mail: Yuri.Nikiforov@uc.edu. Affirmative Action/Equal Opportunity Employer.

A position in macromolecular crystallography at the University of Houston is open, and we are accepting applicants at all faculty levels. The position is **TENURE TRACK** in a department with several active faculty in organic and biophysical chemistry. Postdoctoral experience is required and junior applicants will be expected to have a strong potential in research and a commitment to education at all levels. Exceptional applicants for a senior tenured position with an established track record and a strong commitment to teaching will be considered. Preference will be given to applicants whose interests complement current strengths in chemistry at this department. Please send curriculum vitae; research plans; and three letters of recommendation by February 15, 2001, to: Professor B. M. Pettitt, Department of Chemistry, University of Houston, Houston, TX 77204-5641. The University of Houston is an Equal Opportunity Employer. Women, minorities, and veterans are encouraged to apply.

BOTANIST. California University of Pennsylvania welcomes applications for a tenure-track position at the **ASSISTANT/ASSOCIATE PROFESSOR** level beginning August 2001. The duties include teaching courses and maintaining externally funded research in areas related to plant taxonomy/plant ecology. Applicants must have a Ph.D. in the related area. Send a letter of interest, curriculum vitae, transcripts, DD214 (if veteran), and three references (include address, telephone, and e-mail) to: Ed Zuchelkowski, Department of Biological and Environmental Sciences, California University of Pennsylvania, California, PA 15419. Application deadline: 15 February 2001. For more information on this position, visit our website: www.cup.edu/employ/faculty. California University of Pennsylvania is an Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available immediately to study hematopoietic stem cell development and plasticity. Applicants should have a strong background in molecular and cellular biology. The project will employ MSCV/lentiviral vectors in investigations of embryonic and adult cell populations. Send curriculum vitae to: Robert G. Hawley, Ph.D., Head, Hematopoiesis Department, Holland Laboratory, American Red Cross, 15601 Crabbs Branch Way, Rockville, MD 20855. E-mail: HawleyR@usa.redcross.org. Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP Ecology and Evolution of Plant-Enemy Interactions

A two-year V. Dropkin Postdoctoral Fellowship is available for work in the Department of Ecology and Evolution at The University of Chicago. Fellows will be selected based on their potential to perform innovative research in plant pathology and/or sustainable agriculture and will be expected to commence studies no later than fall 2001. Salaries are competitive and both research funds and excellent resources will be provided. Applicants are encouraged to contact potential faculty sponsors within the Department to discuss their applications and should send a three-page research proposal, curriculum vitae, and three letters of recommendation by 1 March 2001 to: Dr. Joy Bergelson, Department of Ecology and Evolution, University of Chicago, 1101 East 57th Street, Chicago, IL 60637.

POSTDOCTORAL POSITIONS available immediately in a laboratory focused on breast cancer research. Projects include regulation of estrogen receptor expression and potential use of apoptosis pathways to design new therapies for breast cancer. Strong molecular and cell biology skills desirable. Excellent research environment through the newly awarded NCI SPORE grant in breast cancer. Please send curriculum vitae, cover letter with research interests, and names of three references to:

Nancy E. Davidson, M.D.
Johns Hopkins Oncology Center
Bunting/Blaustein Cancer Research Building
1650 Orleans Street, Room 409
Baltimore, MD 21231-1000
FAX: 410-614-4073

(**POSTDOCTORAL**) **ASSOCIATE** position is available to study the structures and mechanisms of anticancer drug-target (DNA, protein) interactions. Requires Ph.D. in structural biology, biophysics, biochemistry, or molecular biology. Prefer experience in NMR spectroscopy and X-ray crystallography. The position will involve working with College of Pharmacy and Arizona cancer center. Submit cover letter, résumé, and names of three references to: Dr. Danzhou Yang, Department of Pharmacology and Toxicology, College of Pharmacy, University of Arizona, 1703 East Mabel Street, Tucson, AZ 85721-0207. Review will begin February 12, 2001, and continue until filled. We offer excellent benefits and competitive salaries. The University of Arizona is an EEO/Affirmative Action Employer; Minority/Women/Disability/Veteran.

POSTDOCTORAL FELLOW POSITION. A Postdoctoral position is available immediately at the University of Michigan Cancer Center. Our laboratory is interested in therapy for cancers using a modified p53 tumor suppressor gene and targeting oncoprotein pathways as novel therapeutic approaches. Highly motivated individuals with a Ph.D. degree and training in molecular and cellular biology are encouraged to apply. The candidates should be authorized to work in the United States and have good ability to use English to communicate with other researchers. Please forward curriculum vitae and two letters of reference to: Dr. Jiayuh Lin, CCGC Number 4215, University of Michigan Comprehensive Cancer Center, Ann Arbor, MI 48109-0936. FAX: 734-647-9654. The University of Michigan is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available in The Department of Molecular and Human Genetics at Baylor College of Medicine to study the role of cytochrome P4501B1 enzyme (CYP1B1) in mammalian eye development and glaucoma. Experience is required in protein chemistry and molecular biology techniques. Experience in cytochrome biochemistry is desirable. Salary is commensurate with experience. If interested, submit curriculum vitae and three references to: Bassem A. Bejjani, M.D., Department of Molecular and Human Genetics, RM 5434, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. E-mail: bbejjani@bcm.tmc.edu.

POSITIONS OPEN

POSTDOCTORAL POSITION with Dr. Robert Grossman is available immediately to conduct research in data mining, data-intensive computing, networking, and related areas and to develop software for the emerging data web. Knowledge of C, C++, Java, and UNIX is preferred. Candidates should have a Ph.D. in mathematics or computer science or in a closely related technical field. Starting salary ranges from \$35,000 to \$45,000 depending on experience. Applications will be accepted until the position is filled. Send curriculum vitae and reference information to: Shirley Connelly, Laboratory for Advanced Computing, University of Illinois at Chicago, 851 South Morgan Street, (M/C 249), Chicago, IL 60607. FAX: 312-355-0373; e-mail: shirley@lac.uic.edu. University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

An immediate opening is available at the University of Pennsylvania School of Medicine for a qualified **POSTDOCTORAL FELLOW** to work in the area of Fcγ receptor signaling and trafficking. We seek a candidate with experience in protein chemistry and structural biology with a strong interest in signal transduction. Experience in cellular and molecular biology is also desirable. Our state-of-the-art facility and our highly skilled and motivated group provide an environment conducive to development of skills and contribution to ongoing research. Please forward curriculum vitae to: Dr. Alan D. Schreiber, University of Pennsylvania School of Medicine, Department of Medicine, Hematology/Oncology Division, BRBII/III, 421 Curie Drive, Philadelphia, PA 19104. E-mail: schreibr@mail.med.upenn.edu.

POSTDOCTORAL POSITION available to study novel nongenomic effects of steroids. Laboratory uses molecular biology to study steroid-induced processes mediated at the membrane. We wish to understand the signaling mechanisms controlling these processes as well as to identify membrane steroid receptors. Specifically, we are interested in progesterone-induced maturation of *Xenopus* oocytes. Send curriculum vitae and the names and addresses of three references to: Stephen Hammes, M.D., Ph.D., The University of Texas Southwestern Medical Center at Dallas, Division of Endocrinology and Metabolism, 5323 Harry Hines Boulevard, Dallas, TX 75390-8857 U.S.A. E-mail: Stephen.Hammes@UTSouthwestern.edu; website: http://www.swmed.edu/home_pages/facultystaff/hammes/. The University of Texas Southwestern Medical Center at Dallas is an Equal Opportunity Employer.

An NIH-funded **POSTDOCTORAL POSITION** is immediately available to study the function of T-type Ca channels. Familiarity with patch clamp, single cell calcium imaging, molecular biological, and/or Western blotting techniques is desirable. We work closely with a pediatric cardiology laboratory on cofunded projects; ample opportunities exist for training in heart function in developing and diseased systems. Contact: Jonathan Satin; e-mail: jsatin1@pop.uky.edu. Please place "postdoctoral" on the subject line and attach curriculum vitae and names and contact information for two or three references. Alternatively, mail information to: Jonathan Satin, Ph.D., Department of Physiology, MS-508, University of Kentucky College of Medicine, Lexington, KY 40536-0298.

Ph.D. RESEARCH POSITION

RESEARCH SCIENTIST to study structure/function/mechanism of antiviral and antitumor agents. Experience in molecular biology, virology, structural biology, molecular modeling, and bioinformatics. Apply by mail to: Dr. Sylvia Lee-Huang, Department of Biochemistry, New York University School of Medicine, 550 First Avenue, New York, NY 10016.



HUMAN FRONTIER SCIENCE PROGRAM (HFSP)

Bureaux Europe, 20 place des Halles, 67080 STRASBOURG Cedex, FRANCE

Research Grant office: Tel: +33 (0)3 88 21 51 26 Fax: +33 (0)3 88 32 88 97

E-mail: grant@hfsp.org

Web site: <http://www.hfsp.org>

CALL FOR LETTERS OF INTENT TO APPLY FOR A RESEARCH GRANT FOR 2002 AWARD YEAR

(Deadline for receipt of letter of intent is 30 March 2001)

The new HFSP research grant program places special emphasis on **novel, innovative, interdisciplinary approaches to basic research** focused on the elucidation of complex mechanisms of living organisms. The general areas in which applications will be considered are the neurosciences and molecular approaches to biological functions, with the involvement of other disciplines such as chemistry, physics, mathematics, computer science and engineering. Significant new ideas, techniques and discoveries often arise at the boundaries between disciplines. To stimulate novel, daring ideas and innovative approaches, preliminary results are not required in research grant applications. Applicants are expected to develop new lines of research through the collaboration; projects must be distinct from applicants' other research funded by other sources. HFSP supports only international, collaborative teams, with an emphasis on encouraging scientists early in their careers.

A new application procedure has now been introduced for research grants: International teams of scientists interested in submitting applications for support must first submit a letter of intent online via the HFSP web site. The guidelines for potential applicants and further instructions are available on the HFSP web site (www.hfsp.org).

Research grants provide support for basic research (*up to 3 years*) carried out jointly by research teams in different countries. The principal applicant must be from one of the member countries*. Preference is given to intercontinental teams. The size of the team should normally be 2 – 4 members with not more than one member from any one country.

TWO TYPES OF GRANT ARE AVAILABLE:

Young Investigators' Grants are for teams of scientists who are all within 5 years of establishing an independent laboratory and within 10 years of obtaining their PhDs. Successful teams will receive a standard amount of \$250,000 per year for the whole team.

Program Grants may be applied for by independent scientists at all stages of their careers, although the participation of younger scientists is especially encouraged. Up to \$500,000 may be applied for per year for the whole team, including approximately \$100,000 per team member per year plus some additional funds for essential equipment related to the collaboration.

*Current member countries are Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Italy, Japan, Luxembourg, the Netherlands, Portugal, the Republic of Ireland, Spain, Sweden, Switzerland, the United Kingdom and the United States.

Deadline for Receipt of Letters of Intent 30 MARCH 2001

(invitations to submit full applications will be issued at the end of June 2001)

Note: This deadline applies only to Research Grants. The Long-term Fellowship deadline will continue to be 1 September 2001 and the call for applications will appear in May 2001.

The guidelines are available on the HFSP web site (www.hfsp.org)

POSITIONS OPEN

POSTDOCTORAL POSITION AT EMORY Intracellular Signaling

NIH-funded Postdoctoral position available to study the intracellular signaling initiated by the angiotensin II receptor (AT1), a seven-transmembrane receptor. Angiotensin II stimulates several different signaling pathways via protein tyrosine phosphorylation (*Nature* 375:247-250, 1995; *JBC* 271:10329-10333, 1996). This project is to understand how a seven-transmembrane receptor leads to the activation of the JAK-STAT pathway in response to angiotensin II. In particular, ligand-mediated STAT nuclear translocation is an area of active study. The project will include technical analysis using protein biochemistry and molecular biology. The applicant should have a Ph.D. or M.D. with experience in molecular biology or intracellular signaling. Applicants will be interviewed at Emory. Reply by mail or FAX to:

Ken Bernstein, M.D.
WMB 7107A, Department of Pathology
Emory University
Atlanta, GA 30322
FAX: 404-712-9625

Emory is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS MOLECULAR PARASITOLOGY

Three NIH-funded Postdoctoral positions with immediate opening for highly motivated individuals to study rickettsial and malaria parasite gene and antigen discovery. Applicants should have a recent Ph.D. in biochemistry and molecular biology with strong background in gene isolation, cloning, mutagenesis, and protein expression and purification.

Please send your curriculum vitae, brief statement of research background, and names and addresses of three references to: **Dr. Abdu Azad, Department of Microbiology and Immunology, University of Maryland School of Medicine, 655 West Baltimore Street, Baltimore, MD 21201.**

POSTDOCTORAL POSITIONS OPEN IMMEDIATELY

Two positions in the area of vaccine development and toxin biology will be available early in 2001. Applicants should have a Ph.D. or M.D. degree and a strong background in biochemistry and/or mammalian cell biology. Successful candidates will be working with *Pseudomonas* exotoxin, studying its interactions with various cell types. Please send letters of inquiry and three letters of reference to: **David FitzGerald (e-mail: djpf@helix.nih.gov)** or **Marian McKee (e-mail: mmckee@helix.nih.gov)**, National Cancer Institute, NIH, Building 37/4B03, Laboratory of Molecular Biology, Bethesda, MD 20892.

POSTDOCTORAL POSITION

A Postdoctoral Fellowship is immediately available to study the electrophysiology of neural stem cells. Expertise in electrophysiology is necessary and skill in cell culture is desirable. Send résumé and three letters of reference to: **Wallace B. Thoreson, Associate Professor, Ophthalmology and Pharmacology, University of Nebraska Medical Center, 985540 Nebraska Medical Center, Omaha, NE 68198-5540. E-mail: wbthores@unmc.edu.** Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

A POSTDOCTORAL POSITION is available to study free radical-induced signal transduction pathways during cerebral ischemia and reperfusion using *in vitro* and *in vivo* model systems. Experience in cell culture and molecular biology is desirable. Applicants should send curriculum vitae and names of three references to: **Dr. Jim Liu, University of New Mexico, College of Pharmacy, Albuquerque, NM 87131. E-mail: jliu@unm.edu.** The University of New Mexico is an Equal Opportunity/Affirmative Action Employer and Educator.

POSITIONS OPEN



POSTDOCTORAL FELLOWSHIPS

Signal transduction and inflammation: Positions available to study signal transduction pathways for regulating cytosolic phospholipase A2 and production of mediators of inflammation. Molecular and cellular approaches will be used to investigate the role of calcium, phosphorylation, and binding proteins in the translocation of the phospholipase to Golgi/perinuclear membranes. Send curriculum vitae and three references to the attention of **Dr. Christina C. Leslie.**

Pulmonary host defense mechanisms: Positions available to study the interaction of pulmonary surfactant proteins A and D with mycobacteria, mycoplasma, and macrophages using novel structural variants of the proteins produced by site-directed mutagenesis or exposure to environmental oxidants. Send curriculum vitae and three references to the attention of **Dr. Dennis R. Voelker.**

The Program in Cell Biology, National Jewish Medical and Research Center, 1400 Jackson Street, B121, Denver, CO 80206, FAX: 303-398-1775; e-mail: mcollum@njc.org. Affirmative Action/Equal Employment Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS

The University of California and Veterans Affairs Medical Center, San Francisco, have positions available immediately for two projects. The first seeks an individual interested in studying the molecular mechanisms by which calcium and vitamin D regulate keratinocyte differentiation. The second seeks an individual interested in exploring the molecular and cellular regulation of bone formation with a focus on IGF-I and PTH using rodent models. The successful applicants will have a Ph.D. or equivalent in molecular and/or cellular biology with experience in cell signaling and gene transcription. For the second project, experience in working with bone and knockout animals is desired. Send curriculum vitae and three references to: **Daniel Bikle, M.D., Ph.D., Department of Medicine, VAMC (111N), 4150 Clement Street, San Francisco, CA 94121. E-mail: doctor@itsa.ucsf.edu.**

POSTDOCTORAL FELLOW

Two Postdoctoral positions are available immediately, involving the regulation and role of arginase and related enzymes in normal homeostasis and cancer and production of mutant cell lines for use as reference samples for human molecular genetic testing. Candidates should have training in molecular biology and cell biology or biochemistry with experience in gene knockout technology a plus. Interested candidates may also participate in the UCLA Medical Genetics Training Program leading to Board eligibility in clinical molecular genetics. Send curriculum vitae and names of three references to: **Dr. Wayne W. Grody, Department of Pathology and Laboratory Medicine, UCLA School of Medicine, Los Angeles, CA 90095-1732. FAX: 310-206-5178; e-mail: wgrody@mednet.ucla.edu.**

POSTDOCTORAL POSITION available immediately for studies on genomics and proteomics of hyperthermophilic microbes. Ph.D. and experience in microbial molecular genetics or microbial biochemistry is necessary. Salary commensurate with experience; renewal contingent on performance. Send curriculum vitae, research summary, and names/e-mail addresses of three references to: **Dr. Paul Blum, University of Nebraska, E234 Beadle Center for Genetics, Lincoln, NE 68588-0118. E-mail: pblum@biocomp.unl.edu; website: http://microbiology.unl.edu/BlumLab.html.** UNL is committed to Affirmative Action/Equal Employment Opportunity and ADH/504. For accommodation, please Telephone: 402-472-2769.

POSITIONS OPEN

RESEARCH ASSOCIATE EXPERIMENTAL HEMATOLOGY

Two **POSTDOCTORAL POSITIONS** are available in the research laboratory of the Bone Marrow Transplant Program at the University of Colorado Health Science Center. Projects will include translational research approaches to cellular therapy, including *ex vivo* expansion and purification of cord blood stem cells, gene marking protocols, and cellular immunotherapy and phenotype analysis of cultured cells by flow cytometry. A Ph.D. in cell biology, tissue culture, and hematopoietic assay experience is essential. A background in dendritic cell biology and experience in flow cytometry analysis is highly desirable. Starting salary commensurate with experience.

Please submit a letter of interest and curriculum vitae to: **Ian McNiece, Ph.D., 4200 East Ninth Avenue, Box B-116, Denver, CO 80262. FAX: 303-315-0587; e-mail: Ian.McNiece@uchsc.edu.** The application deadline for this position is September 30, 2000.

University of Colorado Health Science Center is an Equal Opportunity/Affirmative Action Employer. We encourage minorities and women to apply for this position.

Two **POSTDOCTORAL RESEARCH** positions are available for the study of protein-cofactor and protein-protein interactions in an energy-transducing membrane protein complex (Photosystem II; see website: <http://www.biology.lsu.edu/webfac/tbricker/index.html>). Applicants must possess a Ph.D. or equivalent in biochemistry, microbiology, molecular biology, or related area. Application deadline is February 15, 2001, or until candidates are selected. Submit letters of application, curriculum vitae, and at least two letters of reference to: **Dr. Terry M. Bricker, Department of Biological Sciences, Louisiana State University, Baton Rouge, LA 70803 (Reference Log Number 0840)** or apply by e-mail: btbric@lsu.edu. LSU is an Equal Opportunity/Equal Access Employer.

A POSTDOCTORAL POSITION is available to study mitochondrial DNA damage using biochemical and chemical biology approaches. This multidisciplinary project will focus on novel methods to monitor DNA damage and will investigate the effects of aging and disease-related mutations in mitochondrial DNA. Qualified applicants have a strong background with expertise in DNA modification chemistry, chemical synthesis and/or screening of peptide-based libraries, human cell culture and DNA isolation, or protein expression/biochemistry. Candidates should send curriculum vitae and a summary of prior research accomplishments to: **Professor Shana O. Kelley, Department of Chemistry, Boston College, Chestnut Hill, MA 02467.**

RESEARCH ASSOCIATE POSITION

Genomic Centre for Cancer Research and Diagnosis is seeking an individual with postdoctoral experience in molecular cytogenetics, molecular biology, and/or imaging. The individual will manage a centre equipped with state-of-the-art imaging workstations for deconvolution microscopy of live cells, SKY, CGH, FISH, M-FISH, and laser chromosome microdissection. The full advertisement for this position can be found on the Manitoba Institute of Cell Biology website: http://www.umanitoba.ca/institutes/manitoba_institute_cell_biology/.

POSTDOCTORAL POSITIONS in developmental biology available to study cardiac and neural crest development using transgenic and knockout mice. For NIH grants fund intense efforts to understand transcriptional regulation and congenital heart disease with available transgenic and histology cores on-site. Experience with molecular biology required. Send curriculum vitae and names of three references to: **Jon Epstein, 954 BRB II, 421 Curie Boulevard, Philadelphia, PA 19104. E-mail: epstein@mail.med.upenn.edu.**

Fundamental Technologies For the Development of Biomolecular Sensors

NASA and NCI are jointly seeking innovations in fundamental technologies that will support the development of minimally invasive biomolecular sensor systems that can measure, analyze, and manipulate molecular processes in the living body.

Specific areas of interest include novel:

- molecular recognition chemistries, materials, chemical composites, nanoparticles, nanostructures, agents, and devices suitable for *in vivo* use.
- strategies for *in vivo* signal generation and amplification.
- dynamic signal acquisition systems and instrumentation suitable for non-invasive, dynamic signal acquisition from deep tissues and systems of reduced scale suitable for manned space missions.
- tools for feature definition, extraction, and processing including computational and mathematical approaches.
- approaches and multifunctional, miniature, technology platforms to create an interface between *in vivo* detection and targeted intervention, including nanostructures/devices and novel materials and composites.



Proposals are encouraged from investigators from a variety of disciplines including, but not limited to, nanotechnology, chemistry, materials science, physics, engineering, biomedical research, and computational sciences; particularly as multidisciplinary teams.

For complete information on this Broad Agency Announcement visit:

<http://rcb.nci.nih.gov/appl/rfp/17016/Table%20of%20Contents.htm>

Or request information by phone at 301.496.8620

SECOND INTERNATIONAL STRUCTURAL GENOMICS MEETING AIRLIE CENTER, VIRGINIA, USA, APRIL 4 - 6, 2001

The meeting will focus on fostering and formalizing international interactions in structural genomics.

TOPICS

Current challenges in structural genomics and how to meet them.

Report of the Structural Genomics Informatics Task Forces. These task forces were established following the first international meeting.

Preparation of an international framework agreement on collaboration and exchange of information.

The relationship between the public programs and industrial efforts in structural genomics.

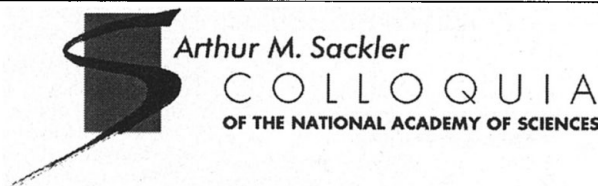
Attendance is limited. Since this meeting will primarily address policy issues (data release, deposition of coordinates, publication of results, intellectual property rights, etc.), acceptance will be on the basis of applicants' knowledge and experience of structural genomics. Applications should be received as soon as possible, but no later than February 23.

Please apply at <http://www.cvent.com> and enter event code S4EGOH5UFA or write to: John C. Norvell, Ph.D., NIGMS/NIH, 45 Center Drive, Rm. 2AS.13B, Bethesda, MD 20892-6200.

Planning Committee Co-chairs: John Moulton and Chris Sander

Co-sponsors: NIGMS/NIH/USA, RIKEN/Japan, and Wellcome Trust/UK

SYMPOSIA



SELF-ORGANIZED COMPLEXITY IN THE PHYSICAL, BIOLOGICAL, AND SOCIAL SCIENCES

MARCH 23-24, 2001

Arnold and Mabel Beckman Center, Irvine, CA
Organized by Donald Turcotte, Cornell University

Invited Speakers

Per Bak (self-organized criticality)	John Rundle (earthquake prediction)
James Bassingthwaite (biomedical)	Charlie Sammis (earthquake prediction)
David Campbell (physics)	Kenneth Slocum (business)
Jean Carlson (friction)	Lenny Smith (weather forecasting)
Joel Cohen (ecology)	Didier Sornette (economics)
Doyle Farmer (economics)	Gene Stanley (economics)
Hans Frauenfelder (biophysics)	Steve Strogatz (biology)
Michael Ghil (atmospheres/oceans)	Donald Turcotte (natural hazards)
Ary L. Goldberger (biomedical)	Zellman Warhaft (turbulence)
John J. Hopfield (molecular biology)	Geoffrey West (biophysics)
Sidney Nagel (physics)	Walter Willinger (networks)
Mark Newman (social sciences)	
Jon Pelletier (geomorphology)	

Registration: \$175 (Non-refundable / transferable), includes meals.

For additional program, hotel and registration information, please visit the colloquium web site (www.nas.edu/nas/colloquia). Inquiries may be addressed via e-mail (colloquia@nas.edu). **Space for this meeting is limited, so please register early.**

POSITIONS OPEN

POSTDOCTORAL

Biodegradation of Quorum Signals

My laboratory at the California Institute of Technology has an opening for a colleague with a background in the genetics, biochemistry, or physiology of microbes. The research seeks to elucidate the molecular aspects of acyl-homoserine lactone signal degradation by the bacterium *Variovorax paradoxus*. Acyl-HSLs mediate quorum sensing in many diverse bacteria. Premature signal degradation may influence bacterial communication in the environment. The appointment has a prospective duration of two years with a flexible starting date. The position will remain open until filled.

Interested applicants should mail or e-mail their cover letter, curriculum vitae, and names of three references to: **Dr. Jared R. Leadbetter, Assistant Professor of Environmental Microbiology, W. M. Keck Laboratories, M/C 138-78, California Institute of Technology, Pasadena, CA 91125-7800. E-mail: jleadbetter@caltech.edu; website: ees.caltech.edu/leadbetter/.** Caltech is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

VASCULAR MAPPING PROJECT University of California, San Francisco

POSTDOCTORAL POSITIONS in cellular and molecular biology are available for localizing novel markers of blood vessels in normal and diseased tissues including tumors. The project involves Investigators in the laboratory of **Dr. Donald McDonald** at the University of California, San Francisco (UCSF), working in collaboration with Scientists at other institutions. Experience in cellular and molecular biology and strong interest in phage display, novel fluorescence, and confocal microscopic imaging methods to identify molecular targets on blood vessels are essential. Excellent oral and written communication skills are also required. Send curriculum vitae, summary of current research, and names and e-mail addresses of three references to: **Harlan Conti, Box 0452, University of California, San Francisco, San Francisco, CA 94143-0452. FAX: 415-476-4845; e-mail: conti@itsa.ucsf.edu.** UCSF is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

POSTDOCTORAL POSITION Children's Hospital The University of Pittsburgh

NIH-funded position open immediately to study the roles of members of the myoncoprotein network in growth, apoptosis, cell cycle control, and maintenance of genomic integrity. Strong background in molecular biology and mammalian cell culture is essential. Experience in yeast molecular biology and/or bioinformatics a plus. *Preference given to U.S. citizens.* Send curriculum vitae and telephone numbers of three references to **Edward V. Prochownik, M.D., Ph.D., The Paul C. Gaffney Professor of Pediatrics and Professor of Molecular Genetics and Biochemistry Section of Hematology/Oncology, Children's Hospital of Pittsburgh, 3705 Fifth Avenue, Pittsburgh, PA 15213. Telephone: 412-692-6797; FAX: 412-692-5723; e-mail: edward.prochownik@poplar.chp.edu.** Children's Hospital of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.

Harvard Medical POSTDOCTORAL POSITION. Exciting research on the structure, function, and cell biology of integrins, IgSF, and selectin adhesion molecules. Special topics include structural changes in integrins that are regulated by signals within the cell and how selectins mediate force-resistant interactions in the vasculature. Strong backgrounds in structural or computational biology, protein chemistry, cell biology, biophysics, and/or bioengineering are particularly sought. Good command of English required. Apply to: **Timothy A. Springer**; address and further information are at website: <http://sprgsi.med.harvard.edu>.

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PREDOCTORAL, POSTDOCTORAL, AND RESEARCH ASSOCIATE POSITIONS Department of Pharmacology University of Minnesota

The Department of Pharmacology, University of Minnesota Medical School, has Predoctoral and Postdoctoral openings in several fields. Our faculty members are well funded and direct strong interdisciplinary research programs. Areas of emphasis include (1) molecular biology, biochemistry, immunology, and neurobiology neurochemistry; (2) molecular cloning of receptors and signal transduction; (3) regulation of gene expression (also use of transgenic and gene-targeting technology); biochemical/molecular pharmacology; and cancer chemotherapy, immunopharmacology, drug metabolism enzymology, and antiviral drugs.

Interested applicants for Predoctoral positions should write to the **Director of Graduate Studies** for more information. Postdoctoral and Research Associate applicants should send curriculum vitae, statement of research interests, and names of three references to: **Dr. Horace H. Loh, Professor and Head, Department of Pharmacology, University of Minnesota, 6-120 Jackson Hall, 321 Church Street S.E., Minneapolis, MN 55455. E-mail: lohxx001@umn.edu; FAX: 612-625-8408; website: www.pharmacology.med.umn.edu.**

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

A POSTDOCTORAL POSITION is available in the Department of Pharmacology, The Brody School of Medicine of East Carolina University, to study the roles of molecular motor proteins in mammalian spermatogenesis. The successful candidate should have a Ph.D. in pharmacology, biochemistry, molecular biology, or related discipline. Preference will be given to applicants experienced in protein analysis using 2 D-PAGE, advanced molecular biology techniques, and immunocytochemistry. The anticipated start date for this position is March 1, 2001. Please submit curriculum vitae and three letters of reference by February 15, 2001, to: **Dr. Ann O. Sperry, The Brody School of Medicine of East Carolina University, Department of Pharmacology, Greenville, NC 27858-4353.** Federal law requires proper documentation of identity and employability at the time of employment. East Carolina University is an Affirmative Action/Equal Opportunity Employer and invites applications from women and minority Scientists.

POSTDOCTORAL POSITION open immediately in the Lung Cancer Program, University of Pittsburgh Cancer Institute, to study role of estrogens in lung cancer. Current investigations include expression of RNA and protein for the estrogen receptor genes in the lung, biological effects of estrogens in lung tissues and cells, and gene activation in response to estrogens. A background in steroid hormone biochemistry is helpful but not required. Qualifications include a Ph.D. with a background in biochemistry, molecular biology, or pharmacology. Send curriculum vitae and contact information for at least two references to: **Dr. Jill M. Siegfried, Department of Pharmacology, Lung Cancer Program, University of Pittsburgh Cancer Institute, E1340 Biomedical Science Tower, Pittsburgh, PA 15261.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS AVAILABLE IN 2001

Postdoctoral positions are available in areas of gerontology and age-related diseases including cancer, cardiovascular disease, and Alzheimer's at the Lankenau Institute for Medical Research (LIMR) in suburban Philadelphia, Pennsylvania. The LIMR is a highly interactive, hospital-based institution dedicated to both basic and clinical research. For more information, refer to website: <http://www.mainline-health.org/limr> and search under "Research Programs." Send curriculum vitae and names of three references to one of the specific investigators listed under "Research Programs" or to: **Thomas O'Brien, Ph.D., Chairman, Postdoctoral Training, Committee, Lankenau Institute for Medical Research, 100 Lancaster Avenue, Wynnewood, PA 19096 U.S.A.**

POSTDOCTORAL FELLOWSHIP POSITIONS

Postdoctoral Fellowships in vascular biology and hypertension research at the University of Alabama at Birmingham. NIH-funded training program with multidisciplinary faculty interested in angiogenesis, gene therapy, molecular and cellular mechanisms of cardiovascular disease, free radical biology and oxidant stress, cell signaling, and clinical cardiovascular research. *Applicants must be U.S. citizens or permanent residents.* Inquiries to: **Suzanne Oparil, M.D.; e-mail: soperil@uab.edu; FAX: 205-934-0424.** UAB is an Equal Opportunity/Affirmative Action Employer. Minority and women candidates are urged to apply.

MOLECULAR HOST DEFENSE/ INNATE IMMUNITY University of California Los Angeles School of Medicine

POSTDOCTORAL POSITION to study the biology of defensins and other mammalian antimicrobial peptides. Previous experience in peptide chemistry and recombinant protein production is desirable. *NIH training grant stipulates that only U.S. citizens or green card holders may apply.* Please send curriculum vitae and the names and addresses of three references to: **Professor Tomas Ganz, Department of Medicine, CHS 37-055, UCLA School of Medicine, Los Angeles, CA 90095-1690. E-mail: tganz@mednet.ucla.edu.** UCLA is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE position available in a project of vaccine development for tuberculosis; involves basic carbohydrate and protein biochemistry, chromatography, antibody techniques, DNA purification, tissue culture, and animal handling. Biohazard Level Three experience is an asset. Send curriculum vitae and names of three references to: **A. (Glatman-) Freedman, M.D., Division of Infectious Diseases, Department of Pediatrics, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. FAX: 718-430-8701; e-mail: afreedma@aecom.yu.edu.** Equal Opportunity Employer.

POSTDOCTORAL POSITION in HIV pathogenesis to use proteomics and genomics approaches to identify host factors involved in HIV replication. Applicants should have a solid background in molecular biology. Experience with HIV is desirable. Send curriculum vitae and the names and addresses of three references to: **Dr. Juan Lama, Department of Medicine, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0665. Telephone: 858-822-4211; FAX: 858-534-7743; e-mail: jlama@ucsd.edu.**

POSTDOCTORAL POSITION to study ovarian function. Ph.D. is basic science and minimum of two years of molecular biology and research laboratory experience. Résumé to: **John Yeh, M.D., SUNY at Buffalo, 219 Bryant Street, Buffalo, NY 14222. Telephone: 716-878-7138; FAX: 716-888-3833; e-mail: jyeh@buffalo.edu.**

POSITIONS OPEN

IMMEDIATE POSTDOCTORAL POSITIONS THE UNIVERSITY OF FLORIDA

Two federally funded Postdoctoral Scientist positions are available in the Division of Endocrinology, Department of Medicine. One is for an individual exceptionally well trained in protein biochemistry and molecular biology to investigate the regulation of expression of enzymes involved in drug and amino acid metabolism and in mitochondrial energetics. Expertise in cell culture, mitochondrial biology, and enzymology is also desirable. The second position is for an individual with expertise in LC/MS and/or GC/MS as applied to small molecule identification and/or quantitation. These studies relate to drug biotransformation in humans and to the isolation, purification, and regulated expression of polymorphic variants of drug-metabolizing enzymes and protein drug targets. These persons would complement a research group with established strengths in molecular biology, analytical chemistry (including GC/MS and LC/MS/MS), enzymology, intermediary metabolism, clinical pharmacology, and mitochondrial diseases. Send correspondence and references to: **Peter W. Stacpoole, Ph.D., M.D., Professor of Medicine, Biochemistry and Molecular Biology, Box 100226, JHMC, Gainesville, FL 32610-0226.**

POSTDOCTORAL FELLOW MOREHOUSE SCHOOL OF MEDICINE

POSTDOCTORAL POSITION available for a Ph.D., M.D., or equivalent with research experience to participate in a National Space Biomedical Research Institute-funded project to determine effects of models of space flight conditions on immune responses and resistance to infection. The program includes psychoneuroimmunology studies to determine the role of the neuroendocrine system in regulating charges. Competitive stipend with benefits provided. Send curriculum vitae and names and addresses of three references to: **Dr. Gerald Sonnenfeld, Department of Microbiology/Biochemistry/Immunology, Morehouse School of Medicine, 720 Westview Drive, S.W., Atlanta, GA 30310-1495. FAX: 404-752-1586; e-mail: sonneng@msm.edu.**

POSTDOCTORAL POSITIONS

Weill Medical College of Cornell University

Postdoctoral positions are available for highly motivated Ph.D. graduates to study the mechanism of JAK-STAT signaling using biochemical and molecular genetic methods. Experience in protein purification, molecular biology, mouse work, and immunology is preferred. Please send curriculum vitae to: **Dr. Jillian Zhang, 1300 York Avenue, Room C339, New York, NY 10021. E-mail: jjz2002@med.cornell.edu; website: <http://www.med.cornell.edu/gradschool/fac/zhang.html>.**

POSTDOCTORAL POSITION to study signal transduction mechanisms of the angiotensin II receptor and its role in vascular disease. Experience in molecular biology, protein biochemistry, or cell culture desired but not required. Send curriculum vitae and the names of three references to: **Dr. Peter Sayeski, Department of Physiology, University of Florida, P.O. Box 100274, Gainesville, FL 32610. E-mail: psayeski@phys.med.ufl.edu. Additional information is at website: www.med.ufl.edu/phys/sayeski.shtml. The University of Florida is an Equal Employment Opportunity/Affirmative Action Employer.**

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POSITIONS OPEN

POSTDOCTORAL POSITIONS RESEARCH Molecular Biology of Staphylococcal Pathogenesis

The Henry M. Jackson Foundation for the Advancement of Military Medicine is seeking Postdoctoral Fellows for the laboratory of **Dr. G. Ji**, Department of Microbiology and Immunology, Uniformed Services University of the Health Sciences in Bethesda, Maryland. The incumbent will study the molecular pathogenesis of *Staphylococcus aureus*. Requirements: Ph.D. and/or M.D. with a strong background in microbiology, biochemistry, and/or molecular biology. Experience in signal transduction, bacterial genetics, and/or protein biochemistry a plus. We are a nonprofit organization supporting the military medical community and offer a competitive salary and generous benefits package. Send cover letter and résumé to:

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TWO POSTDOCTORAL POSITIONS Massachusetts General Hospital/ Harvard Medical School

Position available to study genetics of cutaneous melanoma. Experience in transgenic mice technology, murine cancer models, and genetic techniques is required. M.D., Ph.D., or M.D.-Ph.D. and previous experience in molecular and cellular biology techniques are preferred. Second position is to study translational cellular immunotherapy of melanoma using dendritic cell and gene transfer approaches. M.D., Ph.D., or M.D.-Ph.D. and experience in techniques of cellular immunology, immunoassays, and flow cytometry necessary.

Send curriculum vitae and names of three references to: **Dr. Frank Haluska, Hematology-Oncology GRJ1021, Massachusetts General Hospital, 55 Fruit Street, Boston, MA 02114. FAX: 617-726-6974; e-mail: haluska.frank@mgh.harvard.edu.**

GRANTS

THE BRAIN TUMOR SOCIETY BRAIN TUMOR RESEARCH GRANTS

Grants available nationwide. Application deadline: April 3, 2001. The Brain Tumor Society is awarding grants to fund basic scientific research directed at finding a cure for brain tumors. Grants are awarded annually for up to a two-year period at a maximum of \$50,000 per year. Grants may be used for start-up projects or supplementary funding. Funds cannot be used for indirect costs. For research guidelines and application, visit TBTS's website: www.tbts.org. Committed to a cure through research, education, and support. **The Brain Tumor Society, 124 Watertown Street, Watertown, MA 02472-2500. Telephone: 617-924-9997, extension 10 or 800-770-8287, extension 10; website: www.tbts.org; e-mail: grants@tbts.org.**

WORKSHOPS

FIRST INTERNATIONAL WORKSHOP on Lipodystrophic Diabetes and Other Syndromes of Lipodystrophy. March 22–23, 2001; National Institutes of Health, Bethesda, Maryland. Sponsored by NIDDK, NIH and Office of Rare Diseases, NIH. Registration fee: \$75. Registration deadline: February 23, 2001. Abstract deadline: February 9, 2001. For more information, please contact: **Computercraft; Telephone: 301-493-9674; website: <http://www.niddk.nih.gov/fund/reports/lipo/index.html>.**

AWARDS

THE LOUIS AND ARTUR LUCIAN AWARD FOR RESEARCH IN CIRCULATORY DISEASES

Each year a committee from the McGill University Faculty of Medicine confers the Louis and Artur Lucian Award (\$50,000 Canadian) for outstanding research in the field of circulatory diseases. The purpose of this Award is to honor a **SCIENTIFIC INVESTIGATOR** or group of investigators whose contribution to knowledge in this field is deemed worthy of special recognition. The successful recipient is invited to spend a short period of time at McGill University to give a formal Lucian Lecture and to have interchanges with members of the McGill community. Submissions should be received on or before April 1, 2001.

For information and requests of nomination forms, please check the following website: <http://www.mcgill.ca/LucianAward> or contact:

**Dr. René P. Michel
Secretary, The Louis and Artur Lucian
Award Committee
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COURSES & TRAINING

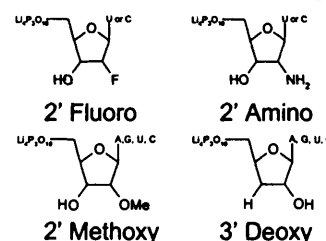
COURSE ANNOUNCEMENT BIOMECHANICS AND PHYSIOLOGY OF INTERTIDAL COMMUNITIES

Intertidal communities have been used as a model system in community ecology for several decades. Many of the factors responsible for structuring these communities are abiotic variables such as wave exposure, temperature, wind speed, and light. Therefore, a full understanding of community ecology demands an interdisciplinary approach that includes biomechanics and physiology. This four-week summer course is designed to offer Experimental Ecologists theoretical and hands-on instruction in cutting-edge methods in biomechanics and physiology/biochemistry/molecular biology as applied to questions in community ecology.

Instructors: **Drs. Mark Denny and George Somero.** Dates: June 18 through July 13, 2001. Location: **Hopkins Marine Station, Stanford University, Pacific Grove, CA 93950-3094.** For additional information, please request a course prospectus from the instructors at the above address. Deadline for receipt of all application materials is April 1, 2001.

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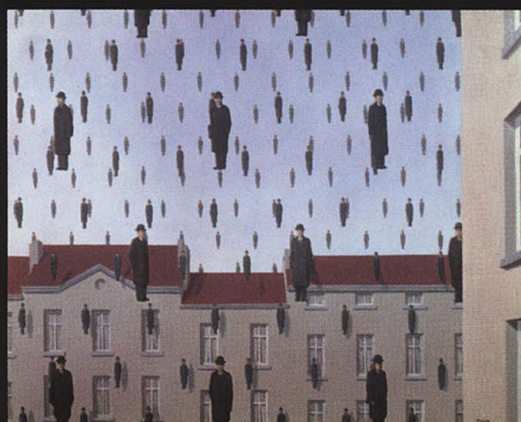
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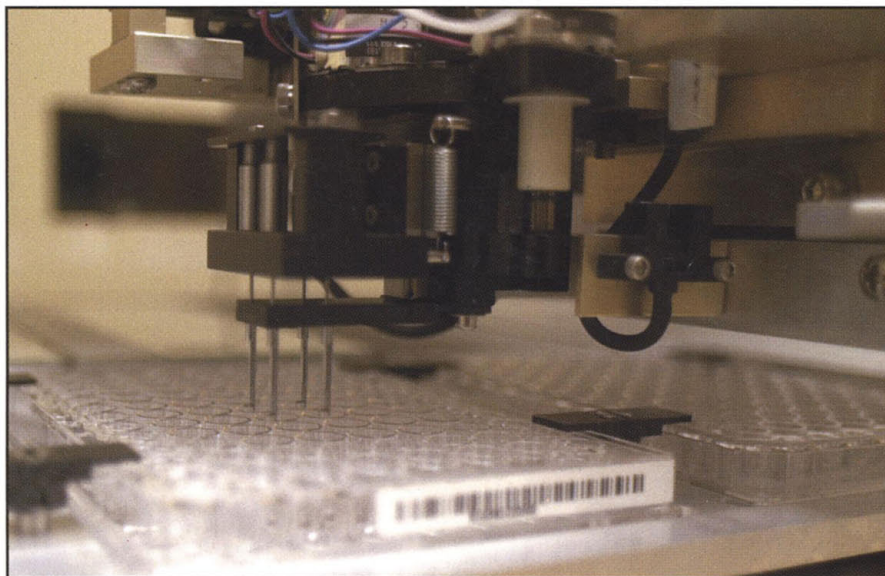
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