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Science

NEW PRODUCTS

DS ViewerPro Accelrys, Inc.

San Diego, CA
858-799-5000
www.accelrys.com

MOLECULAR VIEWER

DS ViewerPro is a software component of the Accelrys Discovery Studio suite of programs aimed at visualizing molecules. Although the full Discovery Studio package targets the corporate life sciences computing environment and is based on industrial-strength client server systems, DS ViewerPro can also be used as a stand-alone product.

DS ViewerPro provides a desktop tool that allows scientists whose everyday activities are not in the field of molecular modeling or molecular graphics to quickly and easily understand the results of structure and function studies on both small and large molecules. In addition to the basic viewer program, three additional modules were available at the time of review: Conformer, Property Calculator, and Molecular Overlay. Installation of these adds functionality to the viewer program.

Users can import molecules into DS ViewerPro in several ways. The program can open a host of structure file formats, although, in some instances, the subsequent operations can be extremely slow. The approach that works best for non-DSViewerPro formats is to open the file and then to immediately save it in Viewer's own format (i.e., as an msv file). For small molecules, there is a set of sketching tools that can be used to build the structure de novo. A Molecule window contains the rendered image and a Hierarchy window displays structural elements to be selected individually or in groups. The Molecule and Hierarchy windows are linked, so selecting a feature in the former highlights it in the latter. Once a structure has been built or otherwise loaded in the Molecule window, the Property Calculator module then estimates a variety of useful parameters, such as AlogP, dipole moment, and molecular volume. Also, when working with small molecules, DS ViewerPro allows the user to set up and export queries that can be used to search compound databases (e.g., Catalyst and ISIS) for molecules that match those particular queries.

DS ViewerPro also displays large molecules, giving the user considerable control over their appearance. In the case of proteins, the atom display styles can be applied to individual atoms or amino acid residues. Additionally, typical protein display styles, such as helices, sheets, and turns, can be represented with different levels of detail or coloring. Molecular surfaces can be calculated and superimposed on the geometrical structures, and there are also options to change the lighting and background color. Hydrogen bond and steric interactions can be shown as dashed lines, and users can define cut-off values where desired. The quality of images rendered with DS ViewerPro is excellent. All in all, DS ViewerPro is a very useful utility for viewing molecular structures.

—Tony Cass

Department of Biological Sciences, Biochemistry Building, South Kensington, London SW7 2AY, UK. E-mail: t.cass@ic.ac.uk

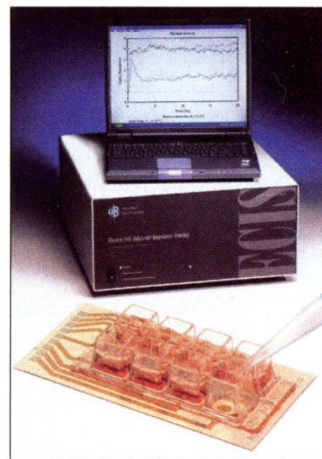
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For more information
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Model 1600R is a fully automated instrument to monitor cell behavior. Using standard tissue culture methods and media, one can electrically monitor cell morphological changes continuously and in real time. The system can follow up to 16 independent culture wells. Applications include measure-

ments of cell-integrin interactions, signal transduction, in vitro toxicology, metastatic potential, cell motility, proliferation, and migration. The Model 1600R ECIS (electric cell-substrate impedance sensing) measurement follows the impedance of cell-coated electrodes and is noninvasive, quantitative, and highly sensitive. The size of the electrodes restricts the maximum cell populations that can be observed from 100 to 1000 cells (dependent on the type of array), and the activities of even a single isolated cell can be easily measured. The approach gathers data on cell behavior without the use of fluorescent or radiolabeled materials and requires little technical labor.



DataRevelation

For more information
336-634-1034
www.DataRevelation.com
www.scienceproductlink.org

AUTOMATIC MODELING OF MULTIVARIATE DATA

DataRevelation is new software for Windows that automatically finds a model that fits up to 19 variables of complex, nonlinear data. The software is powerful and easy to use. The user does not have to be experienced in statistical or mathematical modeling. The user simply imports the data with a few mouse clicks, analyzes the data with a click, and uses the resulting equations in a straightforward calculator. The variables are ordered by importance, and alternative models are presented with the unimportant variables excluded. Graphs and several spreadsheet files are also created. One spreadsheet file contains the transformed variables allowing the fit to be verified with Excel.

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GeneTools Version 3.1 software is designed to save molecular biologists hours of repetitive work by replacing manual comparisons of gel images with a variety of rapid automated band or spot matching methods and also includes a unique multi-layer gel analysis capability for high throughput screening. After the Autotrack Location function has found all the tracks and bands on a gel, the software produces a full image analysis in seconds. It can determine if any band in a selected track matches any other band on the gel according to posi-

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tion, molecular weight, or Rf value. The software is so sophisticated that the analysis can even be extended to dot blots or microtiter plates in which the parameters are set to find positive or negative reactions. Results are displayed in one window as a gel image alongside a dendrogram or comparison table and can be exported to Excel spreadsheets or text files for archiving or use in reports.

EXFO Electro-Optical Engineering

For more information
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www.exfo.com

www.scienceproductlink.org

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Amersham Biosciences

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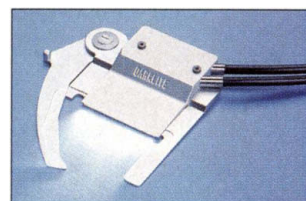
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For more information
207-882-1100
www.fluidimaging.com
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LITERATURE

FlowCAM is a brochure on an instrument designed for flexible sample analysis that offers the freedom to analyze cells and particles in discrete samples as well as running an in situ, real-time monitoring program using wireless technology. The FlowCAM collects and records a digital history of images and data. Its patented algorithms make use of a graphical interface to rapidly display cell images for immediate review. The FlowCAM collects information for each particle analyzed, such as time of flight, cell area, length and width, particle fluorescence, and light scatter, and stores it in standard spreadsheets. With its powerful pattern recognition software, the FlowCAM provides investigators with the capability of targeting cells of interest and can be used as an early warning system that alerts them when a target cell has moved into an area of interest.

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POSITIONS OPEN

CHAIRPERSON Department of Chemistry

Cleveland State University's Department of Chemistry invites applications for the position of Chairperson.

A full description of the Department and its faculty can be found at [website: http://www.csuohio.edu/chemistry](http://www.csuohio.edu/chemistry).

Chairperson duties: The Chairperson's responsibilities can be found at [website: http://www.csuohio.edu/hrd](http://www.csuohio.edu/hrd).

Terms: The Chair position is a tenured appointment at the rank of **FULL PROFESSOR**. Initial appointment is a four-year term with a three-year reappointment possibility to begin July 1, 2003 (starting date negotiable). Salary commensurate with experience.

Minimum qualifications: Doctorate in chemistry, clinical chemistry, biochemistry, or related discipline; previously attained rank of Associate or Full Professor; experience with administrative tasks; a record of recent and continuing scholarship including extramural funding and publications in refereed journals; evidence of successful teaching; excellent interpersonal and communication skills; proven ability to work with and provide leadership for a diverse, multidisciplinary scientific group.

Preferred qualifications: sustained record of research accomplishments, extramural funding from U.S. federal granting agencies; area of expertise that complements existing expertise in the Department; demonstrated commitment to enhancing graduate and undergraduate education; experience in administrative, financial, and faculty governance; demonstrated ability in fostering scientific partnerships with academic institutions and industry; experience in technology transfer and high-technology initiatives.

Application deadline and procedure: The candidate should send a letter of application summarizing his/her qualifications and leadership philosophy; current curriculum vitae; and the names of three references (with addresses, e-mail addresses, and telephone numbers) familiar with their professional performance to: **Dr. Michael Kalafatis, Advisory Search Committee Chair, Chemistry Department, Cleveland State University, 2121 Euclid Avenue, Science Research Building Room 370, Cleveland, OH 44115-2214. Telephone: 216-687-2460.** Application review will begin February 3, 2003, and continue until the position is filled. *Cleveland State University is an Affirmative Action/Equal Opportunity Employer committed to nondiscrimination. Male/Female/Disabled/Veteran encouraged.*

STRUCTURAL BIOLOGIST

The Structural Biology Program of the Department of Physiology and Biophysics at Mount Sinai School of Medicine seeks to recruit an outstanding **FACULTY MEMBER** for a tenured or tenure-track position at any rank. We are particularly interested in individuals employing X-ray crystallography, cryoelectron microscopy, or single molecule spectroscopy to study macromolecular structure, folding, and dynamics. Persons employing other biophysical methods are also encouraged to apply. We are committed to building on our existing departmental strengths in X-ray crystallography, NMR, and experimental and theoretical biophysics; our institutional strengths in molecular and developmental biology; and our ongoing growth of a multidisciplinary and interactive environment for studies of biological structure and function. Generous start-up funding and resources will be provided to the successful applicant. Applications including curriculum vitae, a statement of research interests, copies of two to three publications, and three or more letters of reference (sent independently) should be submitted to:

Program Administrator
Structural Biology Program
Department of Physiology and Biophysics
Mount Sinai School of Medicine
Box 1677
1425 Madison Avenue
New York, NY 10029

POSITIONS OPEN

THE CENTER FOR HIGH-TECHNOLOGY MATERIALS (CHTM) University of New Mexico

The Center for High-Technology Materials (CHTM) invites applications for a **TENURED/TENURE-TRACK FACULTY** position. CHTM is a research center with an emphasis on interdisciplinary and collaborative programs. Strengths are in optoelectronic materials, devices and systems, and in nanoscience; further development of programs in optical systems or nanotechnology is sought.

Candidates will be considered at all levels but senior applicants interested in leading a team in a collaborative environment are particularly encouraged. The tenured/tenure-track faculty appointment is possible in any of several academic departments including Electrical Engineering, Physics and Astronomy, Chemical and Nuclear Engineering, Mechanical Engineering, Chemistry, or Biology.

The minimum qualification is an earned Ph.D. in engineering or the physical sciences. Salary and rank will be commensurate with the applicant's qualifications and experience. Senior candidates must demonstrate an outstanding record of research excellence and relevant leadership and a commitment to teaching at the undergraduate and graduate levels. University-level teaching experience is desirable. Junior candidates must demonstrate the potential to establish a high-quality research program and to become an effective teacher and mentor.

CHTM maintains internationally recognized programs in optoelectronics, microelectronics, lightwave technology, and nanotechnology that span from nanoscale materials growth and synthesis, characterization, fabrication, and manufacturing to devices and systems. Extensive MOCVD, MBE, lithographic, and cleanroom facilities are complemented by several nanoscience laboratories.

Applicants must send a signed personal statement/letter of vision, comprehensive résumé, and the names of four references to the following address:

Professor Kevin J. Malloy
Search Committee Chair
CHTM, University of New Mexico
1313 Goddard Street, S.E.
Albuquerque, NM 87106-4343

Screening of applications will begin on December 9, 2002. The position will remain open until filled. Further background information is available at [web-sites: http://www.chtm.unm.edu](http://www.unm.edu) and <http://www.unm.edu>. *The University of New Mexico, a Carnegie Doctoral/Research Intensive university, is an Equal Opportunity/Affirmative Action Employer and Educator.*

JAMES MADISON UNIVERSITY DEPARTMENT OF BIOLOGY

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Director – Program in Developmental and Stem Cell Biology University of California, San Francisco

The University of California, San Francisco, seeks a visionary leader to serve as Director of the UCSF Program in Developmental and Stem Cell Biology. Applicants must be qualified for appointment as a professor at the University of California, San Francisco. The new Director will be provided with faculty positions, laboratory space and funds, in addition to the substantial existing resources for developmental and stem cell research, to create a program of research excellence across the spectrum of this broad and dynamic field. The new Director is expected to be internationally recognized in some aspect of stem cell research including but not limited to: basic and/or clinical research in neuronal, pancreatic, liver, blood, cardiac developmental and stem cell biology. The Director will be expected to display a broad interest in areas of stem cells research and will be expected to create and use clinical, stem cell production and patient resources to enable efficient translation of research advances to clinical application. The new Director should have administrative skills and the ability to inject energy and imagination into the development of a powerful program that interfaces and synergizes with other elements of the outstanding research environment at UCSF. Please submit your curriculum vitae to **Dr. Jeffrey Bluestone** by **January 31, 2003**, at the address listed below.

Assistant/Associate Professor UCSF Developmental and Stem Cell Biology Program

The Developmental and Stem Cell Biology (DSCB) Program at the University of California, San Francisco is seeking to recruit new faculty members whose research program will focus on stem cell biology and its application. The DSCB Program, located on the Parnassus Campus, is an interactive and collaborative research environment for research spanning basic principles to bedside practice. The program emphasizes neuronal, pancreatic, liver, blood, cardiac developmental and stem cell biology to complement our strong basic research and clinical programs. Faculty in this program are expected to further their understanding of stem cell biology and develop better ways to treat and prevent diseases. The successful candidate is expected to have a research plan relevant to Stem Cell biology, and to be committed to active participation in the affairs of the DSCB Program. The appointee will be a member of the Biomedical Sciences Graduate Program and an appropriate academic department. Candidates are expected to hold a Ph.D. or M.D. degree, and to have demonstrated achievement in their field. Applicants should submit curriculum vitae, a 1-2 page summary of research accomplishments, a 1-2 page perspective on future research plans, and reprints of major publications by **January 31, 2003** to:

Jeffrey Bluestone, Ph.D.
Chair, Search Committee
c/o Gail Coufal
UCSF School of Medicine, Office of the Dean
513 Parnassus Avenue, S-224
San Francisco, CA 94143-0410

Or via email in a Word 2000 compatible format to: coufalg@medsch.ucsf.edu

Assistant/Associate Professor UCSF Program in Craniofacial and Mesenchymal Biology

The Program of Craniofacial and Mesenchymal Biology, one of the new research programs under development at UCSF, is seeking to recruit a new faculty member to be appointed at the Assistant or Associate Professor level. Membership in the Biomedical Sciences Graduate Program will be offered. Candidates are expected to establish a dynamic research program and to contribute to teaching and training programs. We are interested in basic research scientists and clinician-scientists with research in one of the following areas: mesenchymal differentiation, mesenchymal stem cells, mesenchymal/epithelial interactions, muscle, bone, fat and/or cartilage biology, skeletal development and biology, including craniofacial development and skeletal immunology. Candidates should hold a Ph.D., M.D., or D.D.S. degree. Applications should include curriculum vitae, a brief description of research accomplishments and a statement (maximum two pages) of future research plans and teaching interests. Please send your curriculum vitae and supporting documents by **January 31, 2003**, to:

Chair, Craniofacial/Mesenchymal Biology Search
Department of Growth and Development
University of California, San Francisco
521 Parnassus Avenue, Box 0640
San Francisco, CA 94143

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University of California
San Francisco



School of Medicine



Dean, College of Medicine

The University of Arizona in Tucson invites applications and nominations for the position of Dean of its College of Medicine.

Founded in 1967, the College of Medicine is part of The University of Arizona Health Sciences Center (AHSC), which also includes the University of Arizona Colleges of Nursing, Pharmacy, and Public Health and the Phoenix Health Sciences Campus. Clinical components of AHSC include the University Medical Center (a private non-profit 365-bed teaching hospital) and the University Physicians Incorporated (the faculty practice plan). The College currently has 405 medical students, as well as approximately 70 graduate students, more than 400 resident-physicians and fellows, and 478 full-time and 685 voluntary faculty.

The College's activities take place both in Tucson and Phoenix, including the Veterans' Affairs Medical Centers in these two communities. The College has eight Centers of Excellence in research, teaching, and patient care in the areas of cancer, cardiovascular disease, respiratory sciences, children's health, arthritis, valley fever, emergency medicine, and aging.

The individual we are seeking is one who will have the vision and skills to face the challenges and promises involved in leading the College of Medicine at a time of extraordinary advances in the biological sciences. The University of Arizona has embarked in a major effort to foster multidisciplinary research in modern biology and biotechnology, with specific application to the medical sciences. The new Dean will have a crucial role in moving the College of Medicine in this new direction and will have responsibility for planning and guiding construction of a new, \$60 Million medical research building. Candidates must have an MD and a record of scholarly and research achievements of international significance. In addition, the candidate must have administrative and financial expertise, and experience in the preparation of budgets and the effective management of resources.

The University of Arizona is fully committed to fostering a diverse academic community and student body. For this reason, the candidate is expected to demonstrate exceptional ability in recruiting and supporting individuals with varied experiences, perspectives, and backgrounds, including minorities, women, disabled persons, and veterans.

The Dean is expected to promote interdisciplinary and collaborative programs in education and research within the College of Medicine, with other colleges at the University, and with other universities within the State. In addition, the Dean is responsible for advancing critical relationships with non-profit research organizations within our State such as the Translational Genomics Institute, as well as with healthcare organizations and providers, and with business and government leaders throughout the community.

In summary, the new Dean of the College of Medicine at the University of Arizona will play a major leadership role in our State in the fields of health care delivery, science-based medical education, and modern biology-based research as it applies to human disease affecting the diverse population of our State.

The Dean will jointly report to the University of Arizona Vice President for Health Sciences and the Provost, who report to the President of the University. As an equal opportunity and affirmative action employer, the University of Arizona especially encourages applications from women, minorities, disabled individuals, and veterans.

Review of applications will begin on February 14, 2003 and continue until the position is filled. For more information see: www.hr.arizona.edu. Applications, which should include a cover letter, a list of at least three references, and a complete Curriculum Vitae should be sent to the address below. Nominations are also welcome.

Fernando D. Martinez, Chair
Search Committee for the Dean of the College of Medicine
The University of Arizona
P.O. Box 245033
Tucson, AZ 85724-5033

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Seeking biologists with experience in molecular biology techniques, recombinant DNA techniques, mammalian tissue culture, gene expression, and cell biology.

3) BS/MS/Ph.D. MICROBIOLOGISTS

Seeking microbiologists with basic microbiological techniques and an understanding of aseptic techniques and processing.

4) MS/Ph.D. BIOINFORMATICISTS

Seeking individuals in biological sciences with experience in statistical genetics interface.

5) MS/Ph.D. *in vivo* PHARMACOLOGISTS

Seeking *in vivo* pharmacologists with expertise in *in vivo* pharmacology and *in vivo* modeling.

6) MS/Ph.D. BEHAVIORAL PHARMACOLOGISTS

Seeking individuals with experience in the neurobiology of memory/cognitive disorders including Alzheimer's Disease.

7) MS/Ph.D. SCIENTIFIC COMMUNICATIONS ASSOCIATE

Seeking qualified candidates with an educational background in science and demonstrated expertise in medical writing/clinical data integration.

8) MS/Ph.D. TOXICOLOGISTS

Seeking individuals with expertise in toxicological testing to determine safety of pharmaceutical compounds.

9) MS/Ph.D. HEALTH OUTCOMES RESEARCH ASSOCIATES

Seeking qualified candidates with an educational background in economics/pharmacoeconomics and expertise in incorporating, analyzing, and reporting health outcomes data.

We are an equal opportunity employer who recruits, hires, trains, and promotes persons in all phases of employment, without regard to age, citizenship, color, disability, gender, national origin, race, religion, sexual orientation, veteran and uniformed military status, or any status protected by law. Please refer to code ADSCMIMB when applying online.



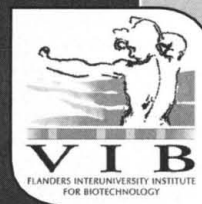
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Answers That Matter.

START YOUR OWN RESEARCH TEAM IN FLANDERS, BELGIUM WITHIN THE CHALLENGING ENVIRONMENT OF VIB

VIB, the Flanders Interuniversity Institute for Biotechnology, is an entrepreneurial research institute where 750 scientists and technical staff conduct basic research in a number of life science domains. The annual research budget is about 50 million euro. The scientific mission of the institute is to significantly push the frontline of life sciences by frequent scientific breakthroughs and highly significant contributions. During the past years we have created an environment that stimulates talent to excel. The major ingredients needed to provide such environment are long-term and stable financing, state of the art infrastructure and access to advanced central core technologies. VIB pursues an active patent and licensing policy with the objective to translate research results into products for the industry and the public at large. VIB also develops educational material and provides information about life sciences to the public.



The ambition: VIB's project programme

To complement its current research programme and to anticipate future developments in life sciences, VIB starts a new project programme. The programme aims to support new challenging and pioneering research projects in emerging science and technology fields that are of strategic importance and that provide significant added value to the current VIB research and to the Flanders research community in general.

VIB invites promising scientists to apply for a group leader position in VIB and to start up a new research team in one of the following domains:

- Advanced molecular biology: e.g. higher order transcriptional control (chromatin remodelling, epigenetic variation, mediator complex, modifier genes, etc.), functional proteomics of protein complexes;
- Advanced Cell Biology (e.g. cell imaging, animal imaging, etc.) to address basic cell biology questions;
- Stem cell research (adult, embryonic);
- Advanced tissue biology and tissue repair to study the (re)generation of tissues;
- Small animal model organisms (e.g. Zebrafish, Drosophila, C. elegans, etc.) to study gene function, quantitative traits or complex genetics;
- Innovative animal / cell models and in-depth phenotyping to study human health and disease;
- Development of advanced technologies to study polygenic traits;
- Innovative technologies to develop libraries of natural or synthetic compounds, useful in human health and disease;
- Interface biology - microelectronics: e.g. bio-sensing, nanotechnology, nerve cell signal propagation;
- Interface biology - IT - mathematics: e.g. computational biology, mathematics of complex systems, systems biology (including metabolomics), rational molecule design, protein folding and structural bio-informatics.

Your opportunity

Eligible applicants have several years of postdoctoral research experience and have a proven track record, comprising several publications in high impact journals. Applicants are also capable of skilfully managing a research team. Applicants are expected to perform research of the highest international standard to be published in high impact journals. The results obtained through this research ideally have the potential for industrial applicability.

VIB will provide an overall budget of about 2 million euro for a 4-5 year period. This financial support is dedicated to the salary of the group leader, a small team (4-5 p) of postdoctoral and/or postgraduate researchers as well as dedicated technical support, laboratory equipment and consumables. The candidate will be expected to complement this budget through other national, or international grants and through industrial collaborations.

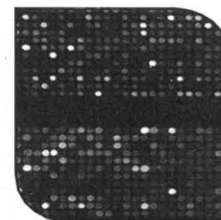
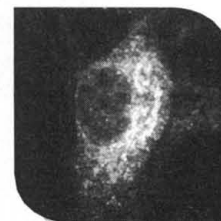
How to apply and time line

Full details of the call and guidance on submitting your application are available at www.vib.be. Proposals should be submitted electronically, before 31st March 2003 to torik.ayoubi@vib.be. A short list of applications will be selected on the basis of CV and research programme proposal. The corresponding applicants will be invited for interviews and to give a seminar in May 2003. Final selection of the new projects is scheduled in June 2003. Selected candidates are expected to start their group in Flanders between September 2003 and August 2004.

More information

For more information on VIB, please consult our annual reports and website (www.vib.be) or contact Torik Ayoubi, science advisor of VIB (e-mail: torik.ayoubi@vib.be, postal address: Rijvischestrat 120, B-9052 Zwijnaarde, Belgium, tel. +32 9 244 66 11 or fax +32 9 244 66 10).

Visit also our website: www.vib.be





Endowed Chair in Environmental Biology

The Department of Biological Sciences, Loyola University, New Orleans is seeking an outstanding scholar to fill an Endowed Chair in Environmental Biology. The successful candidate will be an accomplished researcher and educator whose qualifications merit appointment at the rank of Full Professor. The chairholder will provide leadership in developing academic programs to address environmental problems common to Louisiana; develop a vigorous externally funded environmental research program that includes collaboration with and support of undergraduates; develop and submit grant proposals to support research and education programs; provide scientific expertise to diverse stakeholders; interact with other endowed chairs and programs at Loyola University; and develop and teach innovative undergraduate courses and curricula to science and non-science majors.

Applicants must have a Ph.D. in the biological sciences with a specialization that addresses questions in a field of environmental biology. The successful candidate's research must examine a significant biological process that underlies an environmental problem, which can be focused at the level of the cell, organism, population, community, or ecosystem. Applicants are urged to visit the departmental website (<http://www.loyno.edu/~biology>) to learn more about the endowed chair position and departmental resources.

The chair will be housed in the Department of Biological Sciences. The department provides outstanding academic experiences which develop within students an excellent knowledge base as well as problem-solving, research, and communication skills. Biology faculty have established outstanding research collaborations with researchers at nearby universities, federal research centers, and biomedical and public health laboratories.

Those interested in applying should send a CV, statements of teaching and research interests and expertise, and contact information for at least 3 references to: **Environmental Biology Endowed Chair Search Committee, Department of Biological Sciences, Loyola University, New Orleans, LA 70118.** We will begin reviewing applications on January 10, 2003 and will continue until the position is filled.

Loyola University New Orleans is an Equal Opportunity/Affirmative Action Employer.



Postdoctoral Research Associate

The USDA, Agricultural Research Service, Avian Disease and Oncology Laboratory, in East Lansing, Michigan, is seeking a POST-DOCTORAL RESEARCH ASSOCIATE, (Microbiologist). Recent Ph.D. in microbiology or a directly related field is required. Position is funded for two years, with possibility of extension. Salary is commensurate with experience (\$45,285-\$70,555 per annum), plus benefits. There are some citizenship restrictions. The incumbent will help in the development of attenuated viruses for use as avian vaccines and be responsible for conducting scientific investigations to identify and characterize genes of Marek's disease virus (MDV). The successful candidate must have a broad knowledge of virology, biochemistry, and molecular biology.

Refer to www.ars.usda.gov for the full text announcement (RA-03-015H) and for complete application instructions. Send application materials and references to **Dr. Robert Silva, USDA/ARS/MWA/ADOL, 3606 E. Mount Hope Rd., East Lansing, Michigan, 48823** or e-mail (silvar@msu.edu).

USDA/ARS is an Equal Opportunity Provider and Employer.

University of Massachusetts Boston

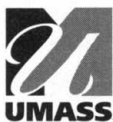
Assistant Professor of Terrestrial Ecology

The Department of Biology at the University of Massachusetts Boston seeks applicants for a tenure-track Assistant Professor in terrestrial ecology or a closely related field starting in September 2003. Applications will be particularly welcome from candidates who are working on some aspect of global change, landscape ecology, or conservation. Possible areas include landuse/landcover change, watersheds/wetlands, carbon sequestration, invasive species, and others. The successful applicant is expected to establish an externally funded research program and to be actively committed to teaching at both the undergraduate and graduate level.

There are excellent opportunities to collaborate and engage in multidisciplinary research on campus and at UMass Boston's Nantucket Field Station. The University has a strong faculty and substantial research programs in environmental areas, and doctoral programs in Environmental Biology; Molecular, Cellular and Organismal Biology; and Environmental Sciences. The candidate will be expected to contribute to the development and the strengthening of these programs and to have an active research laboratory supported by extramural grants. Applicants must have a Ph.D. and postdoctoral (or equivalent professional) experience is also required.

Please send a statement of teaching and research interests and goals, curriculum vitae, and three letters of reference to **University of Massachusetts, Human Resources, Search 725, 100 Morrissey Blvd., Boston, MA 02125.** For further information, visit the Biology Department website at www.bio.umb.edu, or contact **Robert D. Stevenson, Chair of Search Committee, at robert.stevenson@umb.edu or (617)-287-6579.** Target date for receipt of applications is January 17, 2003, but applications will be reviewed until the position is filled.

UMass Boston is an Affirmative Action, Equal Opportunity, Title IX employer. Women and minorities are encouraged to apply.



University of Massachusetts Boston
www.umb.edu

GLOBAL OPPORTUNITIES

Postdoctoral Fellows and PhD's in Physics Weizmann Institute of Science

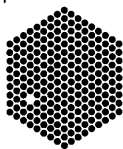
The theoretical and experimental groups of the condensed matter department at the Weizmann Institute of Science have two positions available for postdoctoral fellows and/or PhD students. The theoretical work will focus on the interplay between charge spin and disorder in restricted geometries and other aspects of modern nano-scale solid state physics. Possible relevance to quantum computation and spintronics will be considered as well. The experimental work will focus on the role of spin in the transport properties of one-dimensional systems and on the local probing of the charge and spin degrees of freedom in low dimensional conductors and semi-conductors.

Please forward application to:

Yuval Gefen
(yuval.gefen@weizmann.ac.il)
Amir Yacoby
(amir.yacoby@weizmann.ac.il)
or the secretary:

Ms. Roby Tsabary
Department of Condensed Matter Physics
Weizmann Institute of Science
Rehovot 76100, Israel

Applications should include CV, list of publications, description of prior experience, and a list of at least two names of possible references.



EMBL

The European Molecular Biology Laboratory (EMBL), an international research organisation with its Headquarters Laboratory in Heidelberg (Germany), Outstations situated in Grenoble (France), Hamburg (Germany) and Hinxton (UK), and a Research Programme at Monterotondo (Italy) invites applications for the following vacancies in Heidelberg, Germany:

GROUP LEADERS STRUCTURAL AND COMPUTATIONAL BIOLOGY

EMBL wishes to recruit excellent young research group leaders in the following areas:

- EM tomography for the elucidation of cellular structure
- Image analysis to bridge molecular and higher order structures
- Systems biology to understand the dynamics of cellular processes
- Genetic network analysis to reveal regulatory aspects of living cells

The positions are available at the headquarters laboratory in Heidelberg, Germany. The Heidelberg laboratory provides facilities to support multiple activities including microarray analysis, protein production, mass spectrometry, DNA sequencing and advanced light microscopy. High-level expertise in computational biology, many aspects of experimental molecular biology as well as physics, biophysics, chemical biology and instrument development is available.

EMBL offers a highly collaborative international culture. It is committed to fostering top quality, interdisciplinary research by promoting an exciting and stimulating research environment consisting of young independent research groups with access to outstanding graduate students and postdoctoral fellows.

EMBL is an inclusive, equal opportunity employer offering attractive conditions and benefits appropriate to an international research organisation.

Closing Date: 10.01.2003; Commencing Date: Early - mid 2003

Further information can be obtained from the EMBL Web site: <http://www.embl.de/>

Applicants should submit a curriculum vitae, quoting ref. no. 02/112, with a concise description of research interests and future plans, and should arrange for three letters of recommendation to be sent to:

The Personnel Section, EMBL, Postfach 10.2209, D-69012 Heidelberg, Germany. Fax: +49 6221 387555. email: jobs@embl-heidelberg.de

Staff Scientist – Microbiology/Biochemistry

Sandia National Laboratories (SNL) located in Livermore, California, invites persons with training in molecular microbiology or biochemistry to apply for a Staff Scientist position at SNL. Our current area of focus is the development of novel biodetection systems. Candidates should possess a Ph.D. in Microbiology or a related discipline and have experience in the biochemistry of bacterial systems. Demonstrated skills in protein purification and analysis is desirable. Successful candidates should be self-motivated and capable of working both as an independent scientist and as an integral member of a team of scientists and engineers at Sandia National Laboratories and other institutions. United States citizenship is required for this position.

Send curriculum vitae, names and contact information for three references, a description of research accomplishments and interests, along with up to three reprints to:

**Dr. Todd W. Lane
Biosystems Research Department
Sandia National Labs
P.O. Box 969, MS 9951
Livermore, CA 94551-0969 or
E-mail: twlane@sandia.gov**

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Sandia National Laboratories

Department of Health and Human Services National Institutes of Health National Institute on Aging



With nation-wide responsibility for improving the health and well being of all Americans, the Department of Health and Human Services oversees the biomedical research programs of the National Institutes of Health and those of NIH's research Institutes.

The National Institute on Aging, a major research component of the National Institutes of Health (NIH) and the Department of Health and Human Services, is recruiting for a Health Scientist Administrator to serve as Program Director and lead a research program in neuroepidemiology, which includes studies of prevalence, incidence, and risk factors for Alzheimer's disease and other dementias of aging. The individual selected for this position will develop the program, define its research questions and goals, encourage scientists with appropriate expertise and interest to develop and submit research grant applications, and foster interactions with other epidemiology programs across NIH.

The successful individual will possess an M.D. or Ph.D. degree in epidemiology-relevant biological or behavioral disciplines, have training and research experience in epidemiology as related to the aging process with preference for a focus on aging-related neurodegenerative diseases such as Alzheimer's disease, and have leadership/managerial skills and experience that include responsibility for the conduct and administration of biomedically related research.

Salary range is \$55,694 to \$101,742 and will be commensurate with research experience and accomplishments, and a full Civil Service package of benefits (including retirement, health, life and long term care insurance, Thrift Savings Plan participation, etc.) is available.

For additional information on this position, and for instructions on submitting your application, please see our website, at: www.jobs.nih.gov, or contact the NIA Human Resources Office at 301-496-5347. Refer to announcement # NIA-02-538. Applications must be postmarked by January 31, 2003.



HHS and NIH are Equal Opportunity Employers





CEPTYR™

CEPTYR, Inc., located in the Seattle Metropolitan area, is a growing biotechnology company focused on the discovery of small-molecule inhibitors of protein tyrosine phosphatases (PTPs) as pharmaceuticals for treatment of cancer, metabolic disorders and inflammatory diseases. CEPTYR is seeking candidates for the following new positions. Candidates who work well in a multidisciplinary team environment, are creative, and display excellent analytical and communication skills are encouraged to apply.

Director of Cancer Pharmacology

The successful candidate will be responsible for directing the oncology related research activities of the drug discovery project teams. This person will organize and lead interdisciplinary groups to assess the efficacy, selectivity, and mechanism of drugs in cell-based and animal models. This individual may also be involved in preclinical studies and/or participate on clinical project teams as interest and expertise may allow.

Qualified candidates will have a Ph.D. in a scientific discipline or equivalent with a minimum of 8 years relevant scientific research experience and preferably at least 4 years' experience managing scientific staff in an industry environment. The individual must be a recognized leader in the area of cancer drug discovery, with a strong record of publications in cancer pharmacology or related fields, and a sustained demonstration of scientific creativity, collaboration, and independent thought.

Scientist, Chemistry Associate Scientist, Chemistry

CEPTYR's chemistry department is dramatically expanding! CEPTYR is rapidly building a broad foundation for medicinal chemistry. The expanded chemistry department will focus exclusively on small molecule inhibitors for protein tyrosine phosphatase (PTP) enzymes, using a combination of methods that include high-diversity screening, protein crystallography and structure-based design, and computational property prediction.

Come be a part of this growth! We are currently seeking several scientist and associate scientist candidates with a strong track record of performance and an entrepreneurial spirit. If this sounds like you, we encourage you to apply. Qualifications are as follows:

Scientist

Candidates with a Ph.D. in organic chemistry and a minimum of 2+ years experience in the pharmaceutical/biotechnology industry are encouraged to apply. The individuals will engage in the design and synthesis of potential drug candidates based on the available biological and structural information, and manage the optimization of structure-activity relationships for various lead series. Successful candidates will have experience with small molecule drug discovery programs and must demonstrate the ability to work collaboratively with others.

Associate Scientist

Candidates with a B.S. or M.S. in chemistry and a minimum of 2+ years experience in the pharmaceutical/biotechnology industry are encouraged to apply. The individuals will contribute to the development of structure-activity relationships for lead series, with an emphasis on the design and execution of synthetic routes for new analogs. Successful candidates will have experience with complex organic synthesis and/or small molecule drug discovery programs and must demonstrate the ability to work collaboratively with others.

CEPTYR, Inc., is a privately held company. Its investors include many of the major venture capital and start-up funds, such as Falcon Technologies, Cascade (Bill Gates Investments), Archventure, Lombard Odier, GeneChem and Tredegar.

CEPTYR offers an excellent compensation and benefits package, including stock options. For consideration, please send your CV/resume and references to us at career@ceptyr.com or by fax to 425-485-9026. Our address is: Human Resources, CEPTYR, Inc., 22215 26th Ave. SE, Bothell, WA 98021. www.ceptyr.com.

CEPTYR is an Equal Opportunity Employer.

Faculty Position Program in Cell Dynamics University of Massachusetts Medical School

Applications are invited for a tenure track faculty position in the newly established Program in Cell Dynamics at the University of Massachusetts Medical School. The program focuses on the dynamic spatial and temporal reorganization of molecules, organelles, and cells that drive basic biological processes. The 15 current faculty employ state-of-the-art imaging, classical and molecular genetic techniques, and biochemical approaches to address problems ranging from molecular motor function to chromosome segregation and embryonic patterning. More information on faculty research interests can be found on the program web site (www.umassmed.edu/celldynamics/). The program seeks highly qualified candidates working in any area of cell biology/biophysics or developmental biology. An interest in integrating molecular, genetic, or proteomic approaches with studies of living cells or tissues is more important than specific research area. The position will be highly competitive with regard to start up funds, laboratory space and salary. Applicants should send a curriculum vitae, brief outline of future research plans, and the names of three references to:

**William Theurkauf, Director
Program in Cell Dynamics
University of Massachusetts Medical School
373 Plantation Street
Worcester, MA 01605**

The University of Massachusetts Medical School is an Equal Opportunity/Affirmative Action Employer.

MUSC
MEDICAL UNIVERSITY
OF SOUTH CAROLINA

MEDICAL UNIVERSITY OF SOUTH CAROLINA DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY TWO TENURE-TRACK POSITIONS

The Department of Microbiology and Immunology at the Medical University of South Carolina seeks to fill **TWO TENURE-TRACK POSITIONS**: one in the area of tumor/cancer immunology and one in the area of microbial pathogenesis. Rank will be commensurate with experience and the candidates must have a Ph.D. or M.D., with a minimum of 3 years postdoctoral training. Applicants at the assistant professor level are expected to demonstrate the potential to establish an independent, externally funded research program in his/her specialized field while applicants at more senior levels should have an established, externally funded research program. Successful applicants are expected to participate in the teaching of both graduate and professional students. A competitive startup package will be provided.

MUSC (www.musc.edu) is located in historic Charleston, SC, and is the oldest medical university in the South. The University offers an outstanding research environment and support infrastructure. The Hollings Cancer Center at MUSC (<http://danube.musc.edu>), a state of the art facility that interfaces basic and clinical research, is expanding and a further 83,000 square feet of wet laboratories and animal facilities will be completed by 2004. In addition, the Children's Research Institute at MUSC will be online by 2004 and when complete will be the largest and most comprehensive pediatric research facility in the Carolinas. The facility will be dedicated to multidisciplinary biomedical research and will consist of over 150 state of the art laboratory modules.

Candidates should send a curriculum vitae, statement of research interests and future plans, and the names of at least three references to: **Stephen Tomlinson, Ph.D., Chair of Search Committee, Department of Microbiology and Immunology, Medical University of South Carolina, 173 Ashley Avenue, P. O. Box 250504, Charleston, SC 29425; e-mail: tomlinss@musc.edu**. Review of applications will begin on January 15, 2003 and continue until the positions are filled.

MUSC is an Equal Opportunity and Affirmative Action Employer.



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Inserm



Institut national
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Inserm, the French institute for health and biomedical research, supports excellency in all fields of biomedical research. It ensures that basic research results are translated into practical applications in the clinical, biotechnology and public health domains.

Through its diversity of approaches, richness of internal expertises, interdisciplinary as well as geographical mobility, Inserm provides a unique environment for researchers.

To download an application file and have more information
on the examination procedure: www.eva.inserm.fr

Application deadline: January 24, 2003 - 4 pm (French time).

Department of Health and Human Services National Institutes of Health National Institute of Dental and Craniofacial Research CLINICAL DIRECTOR

The National Institute of Dental and Craniofacial Research (NIDCR) is inviting applications for the position of Clinical Director. The incumbent is responsible for all patient related activities in the NIDCR intramural program, serves as a representative for NIDCR with the NIH Clinical Center, advises the Scientific Director and the Institute Director in the planning and development of a clinical research portfolio, and provides direction to all clinical intramural programs and activities (training and research). The Clinical Director provides leadership to the development and administration of NIDCR clinical training programs, oversees the Clinical Research Core Facility, and administers quality assurance programs for all clinical research and patient-related activities. In addition, he/she acts as liaison to senior and junior clinical staff and the public.

Qualifications for this position include a DDS/DMD and/or MD degree. The successful candidate must have a national/international reputation as an exceptional clinical scientist and be prepared to establish an independent clinical research program within NIDCR. In addition, the candidate must have demonstrated administrative and mentoring skills.

The National Institute of Dental and Craniofacial Research is a major research component of the National Institutes of Health and the Department of Health and Human Services. With nation-wide responsibility for improving the health and well being of all Americans, the Department of Health and Human Services oversees the biomedical research programs of the National Institutes of Health and those of NIH's research Institutes.

Interested candidates should send a cover letter, curriculum vitae, bibliography and 3 letters of reference to: **Ms. Carol Beasley, NIH, National Institute of Dental and Craniofacial Research, 31 Center Drive, Building 31, Room 2C39, MSC-2290, Bethesda, MD 20892-2290.** Applications will be accepted through January 17, 2003.

HHS and NIH are Equal Opportunity Employers

Department of Health and Human Services National Institutes of Health National Institute on Aging



National Institute on Aging

With nation-wide responsibility for improving the health and well being of all Americans, the Department of Health and Human Services oversees the biomedical research programs of the National Institutes of Health and those of NIH's research Institutes.

The Intramural Research Program of the National Institute on Aging (NIA), a major research component of the National Institutes of Health (NIH) and the Department of Health and Human Services, is recruiting two tenure track investigators to develop independent research programs focused on genetic, cellular, endocrine, neurobiological, or metabolic mechanisms related to the effects of long-term calorie restriction on aging processes. The NIA has made a major commitment to this line of research, including the maintenance of aging colonies of rodents and monkeys maintained on calorie restriction as well as other valuable resources, such as a microarray core facility. Although the applicants must possess a Ph.D. or M.D., the particular degree and specialty are less important than the candidate's documentation of a strong commitment to gerontological research with a record of significant publications, scientific accomplishments, and expressed interest in interdisciplinary research focused on calorie restriction. Salary is commensurate with research experience and accomplishments, and a full package of benefits (including retirement, health, life and long term care insurance, Thrift Savings Plan participation, etc.) is available.

Applicants should send curriculum vitae, bibliography, and 1,000 word overview of a proposed program along with three letters of reference to: Chair, LEG Tenure Track Search Committee; Human Resources Office, National Institute on Aging; Vacancy Announcement Number NIA-02-043; 5600 Nathan Shock Drive, Room 1D09; Baltimore, MD 21224-6823. Applications will be accepted until both positions are filled. For application procedures and questions, applicants should call 410-558-8116.



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Biotechnology

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BIOLOGY FACULTY

The Department of Biology at Rensselaer Polytechnic Institute seeks candidates in basic biomedical research for tenure track faculty positions at all academic levels. Areas include, but are not limited to, developmental biology, biochemistry, and molecular biology. Rensselaer is implementing a major initiative in biotechnology, which includes a modern 218,000 sq. ft building now under construction that will house approximately 60 faculty laboratories and state-of-the-art core facilities. Significant funding is available for startup packages and new faculty lines.

Interested individuals should send a Curriculum Vitae, a statement of research and teaching interests, and have a minimum of three letters of reference sent to the address below. Review of applications will begin January 3, 2003, but searches will continue beyond that date.

**Robert E. Palazzo, Professor and Chair,
Department of Biology, 309A MRC,
Rensselaer Polytechnic Institute,
110 8th Street, Troy, NY 12180-3590.**

Rensselaer is an Equal Opportunity/
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Associate Scientist/Scientist

You will develop/implement protein recovery processes from lab to manufacturing scale. This will include process optimization, validation and development of new recovery technologies. Requires a PhD in Chemical Engineering, Biochemistry or related field and 0-2 years of experience. Experience with protein purification and characterization is required. Knowledge of the design, optimization and scale-up of recovery processes and the ability to work creatively and take initiative are necessary. Excellent communication and presentation skills are a must. Job Code: 5023-SCI

To apply for this position, please email your resume to flauer@gene.com. Visit Genentech's website at www.gene.com to view other career opportunities and apply online today. Genentech is an Equal Opportunity Employer.

Genentech
IN BUSINESS FOR LIFE

Assistant Professor Department of Biological Sciences Simon Fraser University, British Columbia

The Department of Biological Sciences is seeking a tenure-track faculty member in the area of Marine Invertebrate Biology. The appointment will be made at the Assistant Professor level with a start date on or after September 1, 2003. Potential research areas are open, but could include evolutionary biology, population and community ecology, developmental biology or neurobiology. The department has three main research themes (cell biology, physiology, and ecology and evolution; see <http://www.sfu.ca/biology>) and excellent marine facilities at the Bamfield Marine Station (<http://bms.bc.ca>).

The successful candidate will pursue a vigorous, externally funded research program that includes the training of graduate students. She or he will be expected to contribute to undergraduate teaching, including a course in invertebrate biology, and to graduate teaching in their area of expertise. Review of applicants will begin on February 15, 2003, and the search will remain open until the position is filled. Applicants should send a Curriculum Vitae, three representative reprints, a one page summary of their research objectives, and contact details for three referees to:

**Dr. Norbert H. Haunerland, Chair
Department of Biological Sciences
Simon Fraser University
8888 University Blvd.
Burnaby, B.C. V5A 1S6 Canada
FAX 604-291-4312**

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The appointment is subject to final budgetary approval by the University.

Simon Fraser University, located in the greater Vancouver area, is committed to employment equity, welcomes diversity in the workplace, and encourages applications from all qualified individuals including women, members of visible minorities, aboriginal persons, and persons with disabilities.



Department of Health and Human Services National Institutes of Health National Institute of Allergy and Infectious Diseases

With nation-wide responsibility for improving the health and well being of all Americans, the Department of Health and Human Services oversees the biomedical research programs of the National Institutes of Health (NIH) and those of NIH's research Institutes.

A post-doctoral position will be available in the Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases. The research involves human respiratory syncytial virus and other pneumoviruses and addresses basic questions of viral replication, gene expression, pathogenesis, the molecular basis of attenuation, host responses, and vaccine development (see *Virology*, **296**:204, 2002; *J. Clin. Invest.* **110**: 21, 2002; *J. Virol.* **76**:1089, **76**:6164, **76**:1663, 2001 **75**:12128, 2002). These studies support an active program in bench-to-clinic research to develop pneumovirus and parainfluenza virus vaccines, with the opportunity to work on investigations that range from basic molecular biology to applied vaccinology. Candidates with experience in molecular biology, virology, and immunology are particularly encouraged to apply. Salary will be commensurate with experience.

Applicants should have fewer than seven years of post-doctoral experience and should send their curriculum vitae and names and addresses of three (3) references to **Peter L. Collins, 50 South Drive MSC 8007, Bethesda, MD 20892-8007, FAX: (301) 496-8312, email: pcollins@niaid.nih.gov**.

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KNOWING NO BOUNDS

MDS Proteomics is leading the way as a systems biology company addressing major medical and pharmaceutical needs. The following **Toronto-based** positions are available in a new and exciting small molecule lead optimization program which uses cutting-edge methods of molecular modelling and physical screening to rapidly and efficiently develop effective drug candidates against disease-related protein targets.

Enzymology Specialist

Responsible for developing and running protein screening assays using a proprietary frontal affinity chromatography (FAC) screening platform to select promising lead molecules, you will implement protein immobilization protocols, characterize proteins through activity assays, and derive kinetic/thermodynamic data. Combining a PhD in Biology or a related field with 5+ years of proven experience in analyzing protein kinetics, you have a working knowledge of analytical techniques, including HPLC and spectrophotometry. Knowledge of mass spectrometry is desirable.

Protein Chemist

In charge of handling and characterizing protein targets used in a novel lead optimization platform, you will develop both standardized and protein-specific immobilization processes, and characterize resultant protein attachment methodologies. You have a PhD in Chemistry (or a related degree) and significant industrial experience in multiple areas of protein handling and characterization. Knowledge of protein-analysis evaluation using mass spectrometry is preferred; exposure to microarray technologies, high-throughput screening, biosensors and immunoassay methods is an asset.

Qualified candidates may e-mail or send resumes directly to: **Dr. Andrew Pasternak, Director, Science & Technology, MDS Proteomics Inc., 251 Attwell Dr., Toronto, Ontario, Canada, M9W 7H4. E-mail: apasternak@mdsp.com. Visit us at: www.mdsp.com**



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ASSISTANT OR ASSOCIATE PROFESSOR IN MICROBIAL BIOLOGY

The Department of Plant and Microbial Biology at the University of California, Berkeley, has an opening for an Assistant Professor (tenure track) or Associate Professor (tenured) position (nine-month appointment) starting July 1, 2003. Applications are invited from outstanding individuals whose research focuses on study of the biology of bacteria or archaea. A variety of research approaches, including molecular biology, physiology, biochemistry, and phylogenetics is appropriate. Teaching responsibilities will include a microbial biology lecture or laboratory course. The successful candidate, who will hold a faculty position in the University of California as well as an appointment in the Agricultural Experiment Station, is expected to establish a strong and independent research program. Microbial biology is a growing program on the Berkeley campus; expertise in this department (and elsewhere on campus) offers unique collaborative potential in microbial physiology, genetics, genomics, pathology, ecology and evolution. Applicants must have a Ph.D. degree and suitable postdoctoral or academic experience. A curriculum vitae, a statement of current and future research interests, a statement of teaching experience and/or goals and three letters of reference should be sent by **February 1, 2003** to **Chair, Microbial Biology Search Committee, Department of Plant & Microbial Biology, 111 Koshland Hall, University of California, Berkeley, CA 94720-3102**. Applications submitted after the deadline will not be accepted.

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



The U.S. Department of Agriculture (USDA), Center for Plant Health Science and Technology (CPHST), of Raleigh, NC is accepting applications for:

**Laboratory Director
Pest Detections, Diagnostics,
and Management Laboratory (PDML)
Edinburg, TX
Announcement #24-77-190**

PDML develops technology critical to USDA's mission of Safeguarding Plant and Animal Resources from Exotic Pests and Diseases and protecting ecological systems, enhancing trade through phytosanitary procedures and managing plant pests. Programs include biological control, biotechnology and chemical control. Goals are established in concert with PPQ national objectives; responsibility for program management for a staff of approximately 40 scientists and scientific and administrative support staff. The Laboratory director collaborates with CPHST program leaders in defining long-term goals and priorities of CPHST. The incumbent represents PPQ in contacts with International, Federal and State agencies, local civil authorities, State Experiment Station and Extension Service officials, and grower organizations.

Applicants must have a Bachelor's degree in biological science, agriculture, natural resource management, chemistry, or related disciplines. In addition, applicants must have one year of specialized experience in the range of duties outline above. Salary is commensurate with experience (\$76,271 to \$99,150) and a recruitment bonus up to \$20,000 may be paid. US citizenship is required. Complete vacancy announcements containing more information on experience and competencies can be obtained at website: www.usajobs.opm.gov or call (919) 513-2918 to request a copy of the announcement. All applications must be postmarked or faxed by February 3, 2003 to: **USDA, MRP, Minneapolis Business Site, Staffing, 100 North Sixth St., #510C, Minneapolis, MN 55403, Fax: (612) 370-2209**. *Do not use government postage paid envelopes.

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CEDARS-SINAI MEDICAL CENTER. MAXINE DUNITZ NEUROSURGICAL INSTITUTE

We are seeking applications for a Scientist position for exciting NIH-funded projects. As part of the BBB and Drug Delivery team, the successful applicant will be:

- Responsible for independently designing and conducting relevant experiments to understand and increase drug delivery across the blood brain barrier,
- Responsible for the evaluation and implementation of new technologies to study the BBB, including the Ion channel pharmacology and function, and
- Responsible for comprehensive and accurate documentation of laboratory work,
- Responsible for publication-grade documentation of results.

Requirements:

- PhD with 5-7 years experience (combination of post doc and work experience)
- Neuroscientist with expertise in the application of cutting-edge molecular, biochemical, and pharmacological techniques to the study of BBB and BBB permeability regulation in vivo, ex vivo and in cell culture preparations
- Demonstrated in-depth knowledge of principles and current theory of BBB and its function, with relevance to brain tumors
- Strongly independent scientist with pharmacological assay development and drug discovery experience and interest is preferred
- Knowledge of the neurobiology of brain tumor and the drug discovery/evaluation process is preferred
- Applicants must have published their work in peer-reviewed journals.

Please mail Curriculum Vitae, including contact information for three references to: **Keith L. Black, MD, Division of Neurosurgery, Department of Surgery, Cedars-Sinai Medical Center, 8632 West Third Street, Suite 800E, Los Angeles, CA 90048.**

AA/EOE



BROWN UNIVERSITY BRAIN SCIENCE PROGRAM

Five Open Rank Faculty Positions: Assistant, Associate or Full Professor

As part of a major academic initiative at Brown University, the Brain Science Program announces four tenure-track positions at any rank in molecular, cellular, theoretical or computational brain science and one position for a senior distinguished scientist in any area of brain science. Research interests should include one of the following areas: neuronal cell biology, synaptic plasticity, learning and memory, neural coding, brain interfaces, perception, cognition, motivation or action. Scientists pursuing both basic research and/or applications to brain disorders are encouraged to apply. The expansion of Brain Science at Brown will include new and renovated research buildings and new facilities for transgenic mice, biological imaging, MRI and human neurophysiology. This expanded research infrastructure will complement existing state-of-the-art facilities for molecular biology, scientific visualization, multielectrode recording, fMRI, virtual reality and advanced computing.

The Brain Science Program supports and promotes interdisciplinary research and education and includes more than 80 faculty members from ten departments. Brown benefits from a highly collaborative and interactive environment with exceptional students and faculty. Appointments will be made over the next 2-3 years, starting from July 2003, and will be in one of the following departments: Applied Mathematics, Cognitive and Linguistic Sciences, Computer Science, Neuroscience, Psychology, Physics, or Engineering, with possible joint appointments in other departments within the University. Please write to us for further details on the specific criteria for appointment at each rank. Applicants should send a Curriculum Vitae, a statement of teaching and research interests and three letters of recommendation to: **Brain Science Program Faculty Search, Brown University, Box 1953, Providence, RI 02912.**

Submission deadline for consideration in the coming year is **February 28, 2003.**

MRI Physicist/Neuroscience: Assistant or Associate Professor

The interdepartmental Brain Science Program of Brown University seeks a faculty member with experience in MRI physics and neuroscience research interests for a tenured/tenure-track position in the Department of Neuroscience or Department of Molecular Pharmacology, Physiology and Biotechnology, Brown Medical School. The University has committed substantial resources to human and non-human based MRI research, and the candidate will participate in directing and developing the existing MRI Research Facility. Candidates should have a Ph.D. and/or M.D., at least two years of post-doctoral experience, and a record of excellence in MRI research. Appropriate fields of study include MR pulse sequence development to enhance CNS structural, functional and spectroscopic research, and using MRI to investigate brain function. The successful candidate will have qualifications to develop an externally funded MRI research program and contribute to the educational and training missions of Brown University at the undergraduate, graduate and postgraduate levels. The appointment can begin at any time from July 2003 until July 2005.

A curriculum vitae, a research and teaching statement, and 3 (Assistant Professor) or 5 (Associate Professor) reference letters should be sent to: **Dr. Jerome N. Sanes, MRI Search, Department of Neuroscience, Brown Medical School, Box 1953, Providence, RI 02912.**

Review of applicants will commence **February 15, 2003.**

See <http://www.brainscience.brown.edu/positions/> for additional information.

Brown University is an Affirmative Action Equal Opportunity Employer



MAYO CLINIC

Hematologist Oncologist Rochester, Minnesota

The Department of Hematology and Internal Medicine is seeking a **BC/BE Hematologist Oncologist** with laboratory-based research experience related to multiple myeloma, with particular focus on bone marrow microenvironment and bone marrow angiogenesis. Laboratory experience in the use of replicating viral vectors for cancer therapy is desirable. The applicant must be experienced in clinical trial design and conduct and in the care of patients with multiple myeloma and amyloidosis. The individual should have a proven track record in blood and marrow transplantation related research. Formal training in clinical research is a requisite.

Salary will be determined by the successful candidate's experience. There is an attractive benefits package. Mayo Clinic Rochester is a non-profit, physician led, clinical practice integrated with education and research in a unified multi-campus system.

Submit curriculum vitae and copies of first authored publications to:

Dr M.A. Gertz
Department of Hematology and Internal Medicine
Mayo Clinic
200 First Street SW
Rochester, MN 55905

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Department of Health and Human Services National Institutes of Health National Institute of Allergy and Infectious Diseases

With nation-wide responsibility for improving the health and well being of all Americans, the Department of Health and Human Services oversees the biomedical research programs of the National Institutes of Health (NIH) and those of NIH's research Institutes.

The National Institute of Allergy and Infectious Diseases (NIAID), a major research component of the NIH and the Department of Health and Human Services, is recruiting for a Staff Scientist (Core Laboratory) in the Respiratory Viruses Section, Laboratory of Infectious Diseases, to develop vaccines for West Nile, tick-borne encephalitis, and St. Louis encephalitis viruses. The Research activity involves (1) the development of live attenuated virus vaccine candidates using the new techniques to recover these RNA viruses from cDNAs by the introduction of attenuating mutations using site-directed mutagenesis into the viral genomes (2) examination of the molecular basis of attenuation of the vaccine viruses; (3) characterization of the candidate vaccines in rodents, in non-human primates, and in humans; (4) development of methods to replicate the viruses to high titer in Vero cells; (5) development of methods to produce vaccine preparations with high titer of virus but a low level of Vero cell DNA; and (6) characterization of the clinical lots of vaccine and overseeing the manufacture of the vaccines. The project will be co-supervised by **Drs. Alexander Pletnev and Brian Murphy.**

The successful individual will possess an M.D. or Ph.D. degree in Molecular Biology, Virology or Immunology. Research experience in molecular virology or vaccine manufacture is preferred. Salary range begins at \$66,000 and is commensurate with research experience and accomplishments.

Please send CV/Bibliography and three references to **Dr. Brian Murphy, Bldg. 50, Room 6517, 50 South Drive, MSC 8007, Bethesda, MD 20892-8007.** For additional information on this position, contact **Dr. Brian Murphy** at **bm25f@nih.gov.**



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For future Career Fair information, go to www.sciencecareers.org



Science CAREER FAIR

**SAN DIEGO, CA
27 MARCH 2003**

11:00 AM – 4:00 PM

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Meeting**



[www.lifesciencesinfo.com/
screentech/](http://www.lifesciencesinfo.com/screentech/)

For information and a
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www.sciencecareers.org
and click on Career Fairs
or call 202-326-7018.
Bring multiple copies of
your CV or resume to
the Career Fair; a copy
will be necessary for
admittance to the hall.
Admission is free.

For information contact
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POWERING THE PROTEOMICS MARKETPLACE

Headquartered in the San Francisco Bay Area, **CIPHERGEN BIOSYSTEMS (Nasdaq: CIPH)** develops, manufactures, sells, and services ProteinChip® Systems & related products that discover, characterize, purify and identify proteins. Our rapid, worldwide expansion paired with the enormous success of our technologies has created an immediate need for an experienced, hands-on researcher to join our new Process Proteomics Service and Support Lab in Woburn, MA.

RESEARCH SCIENTIST

Utilizing our state-of-the-art ProteinChip® (SELDI) technology, you will work closely with our North American Sales team on projects related to expression monitoring and optimization, protein purification, impurity and target protein tracking and analysis. The successful candidate will have a Ph.D. in life sciences and 3-5 years of hands-on experience with the chromatographic purification of proteins. This position requires the ability to manage all aspects of project work, from the outline and development of the project, to the lab work, to preparing reports and presenting them to our client. Strong presentation & written/verbal communication skills are essential. Applicants who are proficient in MS Word & PowerPoint will have an advantage. Some travel required within North America and Europe.

Please reference **Job Code: RS137** in the subject line and email your CV to: staffing@ciphergen.com or apply online at www.ciphergen.com.

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The ProteinChip® Company

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ROCHE PROTEIN EXPRESSION GROUP PRINCIPLE SCIENTIST, PROTEIN EXPRESSION



The Roche Group, Basel Switzerland is pleased to announce the formation of the Roche Protein Expression Group (RPEG).

Based in Indianapolis, Indiana, RPEG is part of Roche Diagnostics Corporation, a World leader in Diagnostics and Life Science research reagents.

RPEG will use both proprietary and patented technologies to produce novel proteins, which will be used for Drug Discovery research. Both cell-free and cell-based expression systems will be used.

RPEG seeks candidates for the position of *Principle Scientist*.

The successful candidate will manage a team of scientists in the expression and purification of recombinant proteins from cell-free and cell-based systems.

The ideal candidate for this position will have the following experience:

- Ph.D. in Biochemistry or Molecular Biology
- 2-3 years experience in protein expression or protein purification in the Biotechnology or Pharmaceutical industry
- employee supervision

RPEG offers a very competitive compensation plan, including a performance bonus package. Qualified candidates should apply online at our career site: <http://careers.ind.roche.com>. Roche is committed to providing equal opportunity in a diverse workforce.

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Helping People
Discover Opportunity** roche.com



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Advancing science • Serving society

**GLADSTONE INSTITUTE OF NEUROLOGICAL DISEASE
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO**

Associate Professor/Investigator

We invite applications for a faculty position at the level of Associate Professor/Investigator. Primary criteria for appointment will be established commitment to disease-related neuroscience and outstanding records of innovative research and academic performance. Of particular interest are candidates with expertise in Alzheimer's disease and related disorders, neurophysiology, cell biology, and/or proteomics. Board certification in neurology would be considered an additional strength. The successful candidate will have joint appointments in the Gladstone Institute of Neurological Disease and in the Department of Neurology and the Neuroscience Program at UCSF. Excellent salary support and research facilities are available (see <http://gladstone.ucsf.edu/gind>). Please send *curriculum vitae*, description of achievements and research interests, and the names of three references to:

**GIND/UCSF Search Committee
The J. David Gladstone Institutes
Human Resources Department
P.O. Box 419100, San Francisco, CA 94141-9100**

The J. David Gladstone Institutes and UCSF are Affirmative Action/Equal Opportunity Employers. They undertake action to assure equal employment opportunity for minorities and women, for persons with disabilities, and for Vietnam-era veterans and special disabled veterans.



**Research Scientist
Faculty Position
Toxicology/Toxicogenomics
Cell Biology/Physiology**



Mount Desert Island Biological Laboratory (MDIBL) and the College of the Atlantic (COA) seek an outstanding Cell Biologist/Physiologist/Toxicologist for a joint appointment as a research scientist (MDIBL) and biology faculty (COA). MDIBL is a 104-year-old research institution with world class seasonal research and educational programs and an expanding year-round program. COA, four miles from MDIBL, is a small, non-departmental college offering the B.A. and M.Phil. in Human Ecology. COA and MDIBL are located on Mount Desert Island, Maine, home of Acadia National Park.

The successful candidate will develop and maintain an NIH-funded research program that uses comparative models in biomedical research in MDIBL's Center for Marine Functional Genomic Studies. Current research emphasis includes ionic regulation, epithelial transport, signal transduction, toxicology and functional genomics at the molecular, cell, tissue and organism levels. The appointee will teach the equivalent of a one semester long laboratory course per year in areas such as molecular biology, genetics, toxicology, molecular physiology, or cell biology for COA undergraduates.

Ph.D. and postdoctoral experience are required. The appointment is for a minimum of three years with 75% protected time for laboratory research, and is partially supported through an NCRR, NIH Biomedical Research Infrastructure Network grant whose goal is to enhance biomedical research in Maine. Salary and start-up resources are competitive. The position includes new laboratory space and core facilities in molecular biology, DNA sequencing, microarrays, cell culture, confocal microscopy, and electrophysiology. Review of applications begins January 2003; search remains open until the position is filled. Send cover letter, vitae, research plans, names and addresses of three references to **Dr. John Forrest, MDIBL, Box 35, Salisbury Cove, ME 04672.** jobs@mdibl.org. See www.mdibl.org, www.coa.edu, and www.brinme.net.

Institutions are EO/AA Employers.

Announcement

Department of Biological Sciences at Faculty of Science – Kuwait University announces a position for a staff member in the field of Agronomy.

Position Conditions

1. Ph.D. majoring in Agronomy.
2. At least 5 years teaching experience in Agronomy.
3. Excellent research conducting capability with experience in Agriculture.
4. Excellent proficiency in the English language.

Position Benefits

1. Tax-free salary
2. Furnished accommodations with utilities paid.
3. Paid annual vacation, health insurance, round trip tickets for the staff member, the spouse and 3 of his children.
4. Research facilities and funds are provided with approved research projects.
5. Contract to commence 1 September 2003 for a period of two years, possibility of renewal.

Papers required for the position

1. Personal C.V.
2. Address, e-mail, telephone number and fax for the applicant.
3. Three addresses for recommendations.
4. Recent photocopy of the applicant's passport data pages.
5. Copies of academic qualification certificates (B.Sc., M.Sc., Ph.D.).
6. List of under- and postgraduate courses.
7. List of supervised graduate students with titles of theses.
8. List of published papers with copies of the recent ones.

Please send your papers to:

**Dean's Office
Faculty of Science
Kuwait University
P.O. Box 5969
Safat, 13060, Kuwait**

Last date for receiving applications is: **March 30, 2003**. For more information: Fax: (965) 4847054



**Dalhousie University
Faculty of Medicine
Head of Department of Biochemistry and
Molecular Biology**

Dalhousie University is seeking an individual with an active research programme as well as a strong record of accomplishments in education and administration to provide leadership for the Department of Biochemistry & Molecular Biology. The successful applicant will have a PhD and/or MD Degree and proven leadership skills. The appointment as Head is for a five-year term with the possibility of renewal. He/she will be a tenured member of the Department. This person is expected to promote and enhance research in the Department as well as guide, direct and administer the academic responsibilities of the Department for undergraduate teaching in the Faculties of Medicine, Dentistry, Health Professions (Pharmacy, Nursing) and Science (4 year BSc programs), as well as graduate programs. The Department has an active graduate studies program leading to MSc and PhD degrees. The research interests of current faculty members include protein chemistry, lipid biochemistry, cell signaling and cancer, molecular genetics, evolution, gene expression, and genomics. Through cross-appointments and joint appointments the Department has many external collaborations with members of both basic and clinical departments who are interested in molecular approaches to problems of importance in biology and medicine. The administration and core activities of the CIAR Evolutionary Biology program and major components of the Genome Atlantic initiative are also located in the Department. Details of the Department's activities can be found at www.biochem.dal.ca.

Dalhousie University Faculty of Medicine in Halifax, Nova Scotia is the medical school for Nova Scotia, New Brunswick, and Prince Edward Island. The Faculty of Medicine web site is located at www.medicine.dal.ca.

All qualified candidates are encouraged to apply although Canadians and permanent residents will be given priority. Dalhousie University is an Employment Equity/Affirmative Action employer. The University encourages applications from qualified Aboriginal people, persons with a disability, racially visible persons and women.

Send applications, together with current curriculum vitae and the names and addresses of three referees, before the closing date of February 14, 2003 to: **Dr. Jonathan Blay, Chair, Department of Biochemistry and Molecular Biology Survey/Search Committee, Faculty of Medicine, c/o Dean's Office, 5849 University Avenue, Halifax, Nova Scotia B3H 4H7.**



MAYO CLINIC

POSTDOCTORAL FELLOW Experimental Pathology Rochester, Minnesota, U.S.A

Postdoctoral research positions supported by the National Institutes of Health are available for highly motivated individuals interested in: (1) Mechanisms of BRCA2 dependent genome instability; (2) identification and characterization of novel amplified oncogenes involved in breast and ovarian cancer. In vitro molecular assays and animal models will be used for both studies. Applicants should have a Ph.D. with experience in molecular biology and/or cell biology.

Salary will be determined by the successful candidate's experience. There is an attractive benefit package. Mayo Clinic is a not-for-profit organization. Mayo integrates research with clinical practice and education in a multi-campus environment. For further information please visit <http://www.mayo.edu/research/>.

Applications, including curriculum vitae and bibliography, summary of past accomplishments, and the names of three references, should be sent to:

**Fergus J. Couch, Ph.D.
Assistant Professor
Experimental Pathology
Mayo Clinic, 200 First Street SW
Rochester, MN 55905
507-284-3623
couch.fergus@mayo.edu**

Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.

POSITIONS OPEN

RESEARCH CHEMIST (SUPERVISORY)

A new Chief for the Marine Chemistry Branch is being sought by the Ecosystem Processes Division of the Northeast Fisheries Science Center (website: <http://www.nefsc.nmfs.gov>), part of NOAA Fisheries. This is a supervisory position equivalent to a Departmental Chair. The job is located at the Howard Marine Sciences Laboratory in Sandy Hook, New Jersey (website: <http://www.sh.nmfs.gov>). The incumbent shall head a team of Scientists focusing on critical environmental issues important for fisheries resource management; shall oversee a complex research program on the interaction of living marine resources with their habitats; shall write scientific papers for publication; and recommend solutions for conservation, habitat preservation, and protection of fisheries resources. She/he must have experience in a field of oceanography or fishery biology and demonstrate broad knowledge of marine chemical and biological relationships, advanced research principles, and techniques required to conduct original marine research. The successful candidate must demonstrate sound supervisory skills and the ability to work effectively with colleagues in an interdisciplinary research program.

The Marine Chemistry Branch presently includes seven full-time Researchers (including one Postdoctoral Researcher), three full-time technicians, one full-time secretary, one Ph.D. student, and numerous part-time staff and volunteers. Research of the Branch focuses on selected metals and organic substances in living marine resources and their environment in order to elucidate ecosystem processes. Current prioritized research includes effects of PCBs on recruitment of commercial and recreational fish, analysis of micro-constituents in otoliths as a means for fish stock identification, biochemical composition of fish as an indicator of habitat condition, and habitat and pathogenic investigations on the mass mortality of lobster in Long Island Sound. The new Branch Chief will be expected to support these investigations and start new programs of research.

Applicants should apply at website: <http://www.usajobs.opm.gov>, Announcement Numbers E-NMF-FC-02323r.sdt and/or E-NMF-FC-02298r.sdt.

For more information about the job, contact: Thomas Noji; e-mail: thomas.noji@noaa.gov.

ASSISTANT PROFESSOR Wildlife/Animal Ecology

Rutgers University, The State University
of New Jersey

The Department of Ecology, Evolution, and Natural Resources seeks candidates for an academic-year, tenure-track position in wildlife/animal ecology. The successful candidate will be expected to establish a vigorous and externally funded research program in the field of wildlife/animal ecology and conservation in urban/suburban/exurban environments as well as contribute to the multidisciplinary research programs of the New Jersey Agricultural Experiment Station. The successful candidate should have a strong commitment to excellence in teaching. The teaching assignment will be in the area of wildlife/animal ecology at the undergraduate and graduate levels with the opportunity to develop instructional programs in related areas. A Ph.D. in wildlife/animal ecology or related discipline is required. Send a letter of application describing research interests and teaching qualifications, curriculum vitae, contact information for three references, and up to three selected reprints/manuscripts to: Dr. Richard Lathrop, Search Committee Chair, Department of Ecology, Evolution, and Natural Resources, 14 College Farm Road, Cook College-Rutgers University, New Brunswick, NJ 08901-8551. More details at website: http://www.rci.rutgers.edu/~decr/wildlife_search.html. The committee will begin reviewing applications starting January 17, 2003, and will continue until the position is filled. A September 1, 2003, starting date is anticipated. Rutgers University is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

UNIVERSITY OF MINNESOTA

ASSISTANT PROFESSOR Biotechnology and the Environment

Department of Fisheries, Wildlife, and Conservation Biology, University of Minnesota. Tenure-track position responsible for teaching and research in linkages between biotechnology and the environment, specifically in natural resource and biodiversity issues, and contributing to the Department's outreach. Qualifications: Ph.D. at time of appointment with advanced degree in a field linking biotechnology and the environment; demonstrated skill in undergraduate teaching; knowledge and experience in biosafety, biotechnology applications, and using science to inform policy. Salary commensurate with experience and qualifications; generous benefits and start-up package.

Review of applications begins 15 February 2003 and continues until position filled. For full position description and application information, contact: Roz Zippa; Telephone: 612-624-3600; e-mail: rz@fw.umn.edu. See also websites: <http://www.fw.umn.edu> and <http://www.fw.umn.edu/isecs>. The University of Minnesota is an Equal Opportunity Educator and Employer.

ASSISTANT/ASSOCIATE/ FULL PROFESSOR (Pharmacologist/Tenure Track)

Department of Comparative Biomedical Sciences

Comparative Biomedical Sciences at Louisiana State University is seeking a Pharmacologist to conduct research and teach in the graduate and professional veterinary program. Required qualifications: Ph.D. or equivalent degree, D.V.M. or equivalent degree, or M.D. or equivalent degree; postdoctoral experience; research background in pharmacology; ability to teach in team-taught graduate and professional courses; have or will have extramural funding. Competitive salary, start-up package, and new laboratory space will be offered. Application deadline is January 20, 2003, or until candidate is selected. Submit letter of application and résumé (including e-mail address) to: Steven A. Barker, Ph.D., Comparative Biomedical Sciences, School of Veterinary Medicine, Louisiana State University, Reference Number 009249, Baton Rouge, LA 70803. Telephone: 225-578-3602; e-mail: sbarker@mail.vetmed.lsu.edu; websites: <http://www.lsu.edu> or <http://www.vetmed.lsu.edu/van/>. LSU is an Equal Opportunity/Equal Access Employer.

FACULTY POSITION Pharmacology or Pharmaceutics

The School of Pharmacy at Texas Tech University Health Science Center at Amarillo has an opening for a tenure-track faculty position at the ASSISTANT PROFESSOR level. The position is in the Department of Pharmaceutical Sciences (website: <http://pharmacy.ama.ttuhsu.edu/PharmSci>), which has 24 full-time faculty members. Applicants with a Ph.D. and postdoctoral experience in pharmacology or pharmaceutics are invited to apply. Successful candidates will teach in the basic science components of the Pharm.D. curriculum, develop a strong extramurally funded research program, and mentor undergraduate and graduate students. Start-up packages and space are competitive. Submit curriculum vitae, a summary of research and teaching interests, and names and addresses of three references to: Dr. Margaret Weis, Search Committee Chair, Texas Tech University School of Pharmacy, 1300 Coulter, Amarillo, TX 79106. E-mail: margaret.weis@ttuhsu.edu; FAX: 806-356-4034.

TTUHSU is an Equal Opportunity/Affirmative Action Institution. Minorities and women are encouraged to apply.

POSITIONS OPEN

DIRECTOR, Noll Research Center (The Pennsylvania State University). The University Park campus of The Pennsylvania State University invites responses to a national search for a Director of the newly expanded Noll Research Center. The Noll Research Center is an exciting new initiative, combining and capitalizing on the strengths of two distinguished centers (Noll Laboratory and the Center for Locomotion Studies [CELOS]) and additional faculty investigators sharing the same research mission. The mission of the new Center is to be a world-class, multidisciplinary center of research excellence dedicated to investigating the complex interactions among mobility, physical activity, and health. Current Noll Research Center Scientists pursue a research agenda focusing on cardiovascular health and disease and neuromuscular and musculoskeletal health and disease including metabolic approaches. Within each of these areas, Noll Scientists will engage in research at multiple levels of scientific inquiry including improving our understanding of the basic mechanisms that underlie the conditions being studied; the consequences of these conditions for health and well-being; and the development of effective, activity-based intervention strategies for maintaining or improving health. Additional information about the position is located at website: <http://www.ohr.psu.edu/emplment/faculty.cfm#14801>. Direct inquiries to: Dr. W. Larry Kenney, Chair of the Search Committee; Telephone: 814-863-1672; e-mail: w7k@psu.edu. Applications should include a cover letter describing interests and qualifications; curriculum vitae; and the names, addresses, telephone numbers, and e-mail addresses of three references. All applications will be held in confidence until finalists are invited to the University Park campus. References will not be contacted without the consent of the candidate. Review of applications will begin January 15, 2003, and will continue until the position is filled. Send applications to: Chair, Search Committee for Director, Noll Research Center, Attention: Sharon Nyman, College of Health and Human Development, 201 Henderson Building, University Park, PA 16802. Penn State is committed to Affirmative Action, Equal Opportunity, and the diversity of its workforce.

TENURE-TRACK FACULTY POSITIONS Department of Pharmacology and Toxicology University of Alabama at Birmingham (UAB) Schools of Medicine and Dentistry

Applications are invited to fill two tenure-track faculty appointments at the rank of ASSISTANT, ASSOCIATE, or FULL PROFESSOR. We seek individuals with a Ph.D. or equivalent graduate degrees who will develop an outstanding, extramurally funded research program; mentor graduate students; and teach in the medical, dental, and interdisciplinary graduate programs. Candidates with expertise in cellular and molecular biology, proteomics, genomics, or signal transduction are particularly encouraged to apply. Faculty applicants will have the opportunity to interact with the UAB Comprehensive Cancer Center and several funded cancer SPORC grants as well as a highly interactive scientific environment with state-of-the-art research facilities. The presence of numerous multidisciplinary research centers and an interdepartmental graduate program in interdisciplinary biomedical sciences fosters collaboration among the basic sciences and clinical faculty. Birmingham provides a metropolitan lifestyle, excellent schools, and low cost of living. The positions include an attractive start-up package, competitive salary and benefits, and are supported by excellent core facilities. Send application letter, curriculum vitae, future research plans, and names and contact information for three references to:

Dr. Robert Diasio, Chairman
Department of Pharmacology and Toxicology
Volker Hall, 1670 University Boulevard
University of Alabama at Birmingham
Schools of Medicine and Dentistry
Birmingham, AL 35294
E-mail: robert.diasio@ccc.uab.edu

The University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer.

**Department of Health and Human Services
Research Opportunities at NIDDK, NIH
Nuclear Receptor Biology – Tenured and Tenure
Track Positions**

The Clinical Endocrinology Branch of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health (NIH) invites applications for tenured and tenure track positions for scientists interested in research involving nuclear receptors and cofactors that regulate gene transcription. Specific areas of research interests include: receptors of the thyroid and steroid hormone families; co-activators and co-receptors; molecular mechanisms of receptor-mediated regulation of gene expression, including developmental processes. Priority will be given to applicants at the Assistant or Associate Professor levels at traditional universities or those finishing their post-doctoral positions. The level of appointment will be commensurate with previous experience. The applicant must have a proven record of accomplishments and will be expected to propose and pursue an independent research program in one of these fields. The position offers unparalleled opportunities for interdisciplinary collaboration, both at the basic research and clinical levels, within NIDDK and throughout NIH.

The Clinical Endocrinology Branch of NIDDK is located on the main intramural campus of the NIH in Bethesda, Maryland, a suburb of Washington, D.C.

Interested applicants should send a Curriculum Vitae and list of publications, copies of three major publications, a summary of research accomplishments, a plan for future research and three letters of recommendation to **Dr. Gary Felsenfeld, Chair, Search Committee, Laboratory of Molecular Biology, NIDDK, Building 5, Room 212, NIH, Bethesda, MD 20892-0540.**

Closing Date: March 15, 2003

DHHS and NIH are Equal Opportunity Employers



**Medical Center
Tenure track positions**

The College of Pharmacy, University of Cincinnati Medical Center, announces the availability of two tenure-track faculty positions at the Assistant/Associate Professor level. Major focus areas of the College and Medical Center include **cancer, cardiovascular, and neuroscience** research. All qualified investigators whose research complements these existing programs within the College are encouraged to apply. The successful applicant will be expected to develop/maintain a competitive, nationally funded research program and participate in the professional and graduate educational mission of the College. Applicants at the Associate Professor level must have transferable NIH (or equivalent) funding, while those at the Assistant Professor level must demonstrate potential for national funding. Ample opportunities exist for collaborations within the College, the Medical Center, the University and with our affiliated institutions, Children's Hospital Research Center and the Veteran's Administration Hospital Research Center. Send a curriculum vitae, the names of 3 references and a statement of your current and future research plans to:

**Dr. Giovanni Pauletti
University of Cincinnati Medical Center
College of Pharmacy
3223 Eden Avenue
Cincinnati, OH 45267-0004**

The start date for both positions is September 1, 2003. Review of applications will continue until the positions are filled.

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



**NORTHWESTERN
UNIVERSITY**



**Children's
Memorial Hospital**

**TENURE-TRACK FACULTY POSITIONS
GENETICS PROGRAM**

**CHILDREN'S MEMORIAL INSTITUTE FOR
EDUCATION AND RESEARCH (CMIER)**

**NORTHWESTERN UNIVERSITY
MEDICAL SCHOOL**

The CMIER Human and Molecular Genetics Program at Children's Memorial Hospital/Northwestern University invites applications from individuals working in any area of genetics related to developmental biology and/or disease in children. Appointment at the Assistant Professor level is expected, but higher-level appointments will be considered. Applicants should have a Ph.D. or M.D. degree and significant postdoctoral training. The successful candidate will be expected to establish an independent, externally funded research program and to teach in the Northwestern graduate school or medical school. This full-time position offers outstanding scholarly and scientific resources in a collegial and collaborative environment that includes strong ties to Northwestern's Center for Genetic Medicine and related departments, the R. H. Lurie Cancer Center, and Northwestern's Institute for Neuroscience. Laboratory space will be located in the Children's Research Center adjacent to research groups in the CMIER Neurobiology, Developmental Systems Biology and Disease Pathogenesis Programs. The successful candidate will be provided with substantial resources and access to state-of-the-art facilities including transgenic mouse and targeted mutagenesis, single and multi-photon confocal microscopy, digital darkroom, fluorescence microscopy and morphology, and gene microarray cores. Applicants with outstanding accomplishments, particularly in the areas of large-scale approaches to functional genomics, developmental genetics in higher eukaryotic model systems, experimental models of human disease, human cancer genetics, the genetic basis of complex diseases, neurogenetics and proteomics are encouraged to apply. Applications from individuals using the mouse as a model system are particularly welcome. Beyond the individual's area of expertise, the exceptional candidate will have the ability to bridge clinical and basic science. This recruitment is part of a growing commitment to genetics research at Northwestern University and to Children's Memorial Hospital's research initiatives to increase the understanding and treatment of diseases and birth defects that affect children. Salary is competitive and commensurate with experience. The start date is expected to be fall of 2003, but is flexible.

Applications will be considered as they are received, but in order to ensure full consideration, applicants should send a CV, a 3 page statement of research accomplishments and future goals, and 3 letters of recommendation by **February 1, 2003**, to: **Martha C. Bohn, Ph.D., Chair, CMIER Genetics Search Committee, Children's Memorial Institute for Education and Research, 2300 Children's Plaza, Box 205, Chicago, IL 60614**; or email electronic submissions to **t-mcloraine@northwestern.edu**.

*Northwestern University is an Affirmative Action,
Equal Opportunity Employer. Hiring is contingent
upon eligibility to work in the USA. Women and
minorities are especially encouraged to apply.*

POSITIONS OPEN

FACULTY POSITION Medical Mycology

The Research Institute for Children and Louisiana State University Health Sciences Center (LSUHSC), New Orleans, are seeking a faculty member with interest and expertise in host-fungal interactions including the immunology, microbiology, cell biology, genetics, and ecology of fungi of medical importance. Rank and salary will be commensurate with experience; applicants at the **ASSOCIATE** or **FULL PROFESSOR** level should have established, externally funded research programs. A competitive recruitment package includes start-up and ongoing research funds.

The Research Institute for Children is a newly established, well-funded collaboration between Children's Hospital of New Orleans and LSU School of Medicine. A 60,000-square-foot, state-of-the-art research building was opened in February 2002. The new recruit will become part of an interactive, multi-institutional group of Medical Mycologists.

Inquiries should be directed to: **Timothy Pierce, Faculty Affairs Coordinator**; Telephone: 504-896-2700; e-mail: tpierce@chnola-research.org. Complete applications consisting of curriculum vitae, statement of research goals, and a list of three references should be submitted to: **Timothy Pierce, Faculty Affairs Coordinator at the Research Institute for Children, Children's Hospital, 200 Henry Clay Avenue, New Orleans, LA 70118**. *LSUHSC is an Affirmative Action/Equal Opportunity Employer.*

TWO TENURE-TRACK ASSISTANT PROFESSOR POSITIONS Department of Biological Sciences State University of New York, Brockport

Teach majors/service courses, coordinate multi-laboratory sections, establish an active research program, seek extramural funding. Required: Ph.D. in appropriate field, competency in some areas of biotechnology, a record of scholarly achievement, and evidence of excellence in teaching. Preference will be given to candidates with postdoctoral experience. Position One, **ANIMAL PHYSIOLOGIST**: In addition to Anatomy and Physiology I and II courses, the applicant will develop an upper-division/graduate course in area of expertise, e.g., developmental biology, cell/molecular physiology, etc. Position Two, **MICROBIOLOGIST**: In addition to a microbiology course, the applicant will develop an upper-division/graduate course in area of expertise, e.g., immunology, etc. Submit letter of application; curriculum vitae; transcript showing highest earned degree; three letters of reference; and a brief statement of teaching philosophy, research plans, and equipment requirements. Starting date is August 2003. Applications will be accepted until the position is filled. Apply to: **Ms. Adrienne Collier, Affirmative Action Officer, SUNY College at Brockport, Allen Administration Building, 350 New Campus Drive, Brockport, NY 14420-2929**. *Affirmative Action/Equal Opportunity Employer.*

The Department of Biochemistry, Brody School of Medicine at East Carolina University, is seeking an outstanding Scientist for a tenure-track position as an **ASSISTANT PROFESSOR** (12-month appointment). We are interested in candidates with the ability to develop a significant and independent research program and with a commitment to excellence in medical and graduate student education. We are especially interested in candidates having expertise in eukaryotic signal transduction as it might apply to specific disease states, apoptosis, or cell cycle control. However, candidates with expertise in other areas will be seriously considered. Review of applications will begin February 1, 2003, with position available for July 1, 2003. Competitive start-up funds and salaries will be offered for this position. Candidates should forward curriculum vitae, a brief statement of research plans, and three letters of recommendation to: **Ms. Ethel Canady, Administrative Assistant, Department of Biochemistry and Molecular Biology, The Brody School of Medicine, East Carolina University, Greenville, NC 27858**.

POSITIONS OPEN

ASSISTANT PROFESSOR MARINE BIOTIC SYSTEMS

University of Victoria,
Victoria, British Columbia, Canada

The Department of Biology and the School of Earth and Ocean Sciences invites applications for a full-time, tenure-track position in marine biotic systems. Applicants should have an exceptional background that demonstrates use of a multidisciplinary approach in studies of the dynamics of marine biotic systems. Areas of interest may include (but are not limited to) microbiology, virology, plankton dynamics, fisheries oceanography, and benthic systems. The University of Victoria offers outstanding support facilities in marine sciences including seafloor observatories; an aquatic facility; a coastal research vessel; and access to the Bamfield Marine Sciences Centre, a fluid dynamics laboratory, a remotely operated vehicle facility, major government research laboratories, and the West Coast research fleet. The successful applicant will be expected to participate in research and teaching in both departments. The appointee will be expected to develop a rigorous, independent research program funded by external support. The expected starting date will be July 2003 or as negotiated.

Qualifications include the completion of a Ph.D. and postdoctoral experience along with demonstrated exceptional research and teaching potential. Letters of application clearly outlining the candidate's expertise, teaching experience, and research interests along with curriculum vitae and names and contact information of at least three references should be submitted. Consideration of candidates will begin February 1, 2003, and continue until the position is filled. Please send to:

**Dr. P. von Aderkas, Chair
Department of Biology
University of Victoria
P.O. Box 3020 STN CSC
Victoria, BC V8W 3N5
Canada**

E-mail: biochair@uvic.ca

Websites: <http://web.uvic.ca/biology>
and <http://web.uvic.ca/seos>

The University of Victoria is an Equity Employer and encourages applications from women, persons with disabilities, visible minorities, aboriginal peoples, people of all sexual orientations and genders, and others who may contribute to the further diversification of the University. All qualified candidates are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadian citizens and permanent residents will be given priority.

VERTEBRATE BIOLOGIST

Whitworth College, Spokane, Washington, invites applications for a full-time, tenure-track faculty position at the **ASSISTANT PROFESSOR** level to begin fall 2003. Teach animal physiology and another upper-division course for biology majors in alternate years, participate in teaching human anatomy and physiology for kinesiology and nursing majors, and additional courses as appropriate (including courses for nonmajor students). Ability to direct undergraduate research required. Requirements include Ph.D. and a commitment to science education in liberal arts institution associated with the Presbyterian Church (U.S.A.). Screening of applicants begins January 27, 2003, and will continue until the position is filled. For a full position announcement and application process, please visit our website: <http://www.whitworth.edu/jobs>. Additional materials may be required at a later date. *Whitworth is an Equal Opportunity Employer.*

MICROBIOLOGY. The Department of Biology at the University of San Francisco invites applications for a tenure-track position (pending approval) at the **ASSISTANT PROFESSOR** level beginning August 2003 to teach upper-division courses in microbiology, participate in lower-division courses for majors and nonmajors, and establish a research program in the biology of microorganisms that applies molecular approaches. For details, please see website: <http://www.usfca.edu/hr>. *University of San Francisco is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

UNIVERSITY OF MASSACHUSETTS, BOSTON

Chemistry Department

The Chemistry Department at the University of Massachusetts, Boston, invites applications and nominations for **CHAIR** of the Department. The Department consists of 12 tenured/tenure-track faculty with one active search currently underway. Faculty have diverse specializations in traditional chemical and modern interdisciplinary fields, and the Department has an active B.S. (ACS-approved), M.S., and a new green chemistry Ph.D. program.

The Chair will be expected to help shape the future direction of the Department through the hiring of additional faculty; set high standards in pedagogical and scholarly activity; and promote collaborative, interdisciplinary research. Candidates should possess a Ph.D. in chemistry, extensive teaching experience at the college/university level and a record of scholarly productivity to merit appointment to a senior rank (preferably **FULL PROFESSOR** but Senior Associate will also be considered), demonstrated potential for excellence in the leadership and organizational skills, and an active research program with a proven record of success in obtaining external funding. Applicants with research interests in any area of chemistry will be considered.

For more information, please see our website: <http://www.chem.umb.edu>. Review of applications will begin February 15, 2003, and continue until the position is filled. Candidates should submit a letter of application, curriculum vitae, statement of research plans, description of start-up requirements, and a statement of administrative philosophy and academic vision as well as arranging for at least three letters of reference to be sent to: **University of Massachusetts, Boston, Office of Human Resources, Search Number 800, 100 Morrissey Boulevard, Boston, MA 02125-3393**. *University of Massachusetts, Boston, is an Affirmative Action/Equal Opportunity/Title IX Employer and strongly encourages women, members of all ethnic groups, and people with disabilities to apply.*

NEUROIMMUNOLOGY OR HUMAN IMMUNOLOGY ASSISTANT/ASSOCIATE STAFF SCIENTIST: Depending on qualifications, the Barrow Neurological Institute® of St. Joseph's Hospital and Medical Center in Phoenix, Arizona, currently has a vacancy for either an Assistant or Associate Staff Scientist to join the Barrow Neuroimmunology Program as Neuroimmunology Laboratory Director. Successful candidates will have a strong, proven background in human immunology and/or neuroimmunology research and its ties to clinical applications. The successful applicant will join a multidisciplinary team focused on developing memory/tolerance-based therapies for autoimmune disorders affecting the nervous system, i.e., multiple sclerosis, CIDP, MG, etc. Please send curriculum vitae, brief statement of future research interests, and names of three references to: **Timothy Vollmer, M.D., Chairman of Neurology and Neuroimmunology Program Director (8-BNI), St. Joseph's Hospital and Medical Center, 350 West Thomas Road, Phoenix, AZ 85013**. E-mail: tvollmer@chw.edu. *Equal Opportunity Employer.*

ASSISTANT PROFESSOR, PLANT ECOLOGY. Tenure-track, 12-month position in the Department of Botany, North Carolina State University, available July 1, 2003. The individual is expected to develop a productive, extramurally funded research program in plant ecology with complementary teaching and graduate student training activities. Candidates must have a Ph.D. degree in plant biology or related discipline and a record of peer-reviewed publications. Postdoctoral experience is preferred. Applicants should send curriculum vitae; copies of graduate transcripts; statement of research and teaching interests; and three letters of recommendation by February 15, 2003, to: **Dr. Thomas Wentworth, Chair, Plant Ecologist Search Committee, Department of Botany, Box 7612, North Carolina State University, Raleigh, NC 27695-7612**. *NC State University is an Affirmative Action/Equal Opportunity Employer.*

Faculty Positions in Bioinformatics

College of Physicians and Surgeons
Columbia University in the City of New York

The Columbia Genome Center (CGC, genome4cpmc.columbia.edu) and the Bioinformatics Division of the Department of Medical Informatics (DMI, www.dbmi.columbia.edu) are jointly recruiting experts in computational genomics/bioinformatics for two tenure-track faculty positions, one senior and one more junior. Our areas of bioinformatics research interest are broad and include molecular and cellular structure and function, genomics, proteomics, chip array analysis, pharmacogenomics, and neuroinformatics. Applicants should preferably have a PhD in medical informatics, computer science, or a closely related field. Candidates for both positions should have outstanding academic credentials and demonstrated ability to teach effectively at the graduate level.

One position is for a senior individual who has had a minimum of 6 years professional experience in the area of computational molecular biology, with significant achievements in computational biology, biomedical informatics, or computer science. The successful candidate will serve as head of both the informatics section of the CGC and the bioinformatics section of the DMI, and will also be associated with Columbia University's Center for Computational Biology and Bioinformatics (C2B2, www.c2b2.columbia.edu). The candidate will be considered for a tenured appointment if qualifications are suitable, and will be expected to build and lead a research program and faculty in computational biology that spans molecular biology, biomedical informatics, and computer science. Candidates for the junior faculty position must have demonstrated great promise for a productive, innovative academic career in bioinformatics or computational biology. Postdoctoral experience is encouraged but not required. Both appointees will also be responsible for academic duties associated with graduate-level programs.

Interested applicants for either position should send a CV, a short statement of research plans, and the names of 3 references to: **Edward H. Shortliffe, MD, PhD, Chair, Department of Medical Informatics, College of Physicians and Surgeons, 622 West 168th Street, New York, NY 10032, USA.** Applications may also be submitted via e-mail to rita.lenertz@dbmi.columbia.edu or by fax to (212) 543-8788.

Columbia University is an equal opportunity/affirmative action employer and encourages applications from women and underrepresented minorities.

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University of Michigan

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July 6-11, 2003; Colby College, Waterville, ME

Professor V. Ramanathan
The Scripps Institute of Oceanography

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POSITIONS OPEN

FACULTY POSITIONS

Molecular Biology, Pathogenesis, and Epidemiology

The Public Health Research Institute (PHRI) is seeking appointment of new faculty members at both the junior or senior levels. Candidates must have training and experience of the highest quality and a research program addressing fundamental questions in cell biology, molecular biology, structural biology, infectious diseases, or epidemiology. The research program must be funded or, in the case of a junior applicant, eminently fundable. The PHRI is an independent, not-for-profit research organization founded in 1942. Its current programs center on basic molecular biology and molecular genetics of disease-causing organisms. The PHRI offers an active, collegial research environment; excellent laboratory facilities; start-up funds; and a generous benefits package. Candidates should submit curriculum vitae, a statement of research interests and accomplishments, and a list of at least three references. The Institute is located in the heart of Newark, New Jersey's, academic community and is flanked by the University of Medicine and Dentistry of New Jersey, Rutgers University, and the New Jersey Institute of Technology. Cross-appointments are possible. Further information about PHRI can be found at [website: http://www.phri.org](http://www.phri.org). Applications should be sent to: **Dr. Leonard Mindich, Chairman, Recruitment Committee, Public Health Research Institute, 225 Warren Street, Newark, NJ 07103. The PHRI is an Equal Opportunity Employer.**

ANIMAL PHYSIOLOGIST

Washington College's Department of Biology invites applications for an entry-level, tenure-track faculty position at the rank of **ASSISTANT PROFESSOR** beginning August 2003. The successful candidate will be an Animal Physiologist with strengths in biochemistry and anatomy and will be expected to teach upper-level courses in those disciplines and participate in the teaching of introductory classes. There is an opportunity to offer an advanced class in an area of interest. A strong commitment to undergraduate teaching and research is required. Candidates must possess a Ph.D. Washington College, a selective liberal arts college of 1,200 students, is committed to science education and is constructing a new facility to house the Biology and Chemistry Departments. The historic college, located on a tributary of the Chesapeake Bay on Maryland's Eastern Shore, is within easy driving distance of Washington, D.C.; Baltimore, Maryland; and Philadelphia, Pennsylvania.

Send curriculum vitae, statements of teaching philosophy and research interests, undergraduate and graduate transcripts, and three current reference letters to: **Dr. Rosemary H. Ford, Chair, 300 Washington Avenue, Chestertown, MD 21620.** Review of applications will begin February 1, 2003. *Washington College is an Equal Opportunity Employer. Women and minorities are especially encouraged to apply.*

Multiple neurobiology **RESEARCH-TRACK (FACULTY)** and **POSTDOCTORAL POSITIONS** available immediately to study neural circuits underlying taste analgesia and changes in central nociceptive/analgesic mechanisms following inflammation. Expertise in behavioral nociceptive testing, *in vivo* electrophysiology, and/or immunocytochemistry/tract tracing required. Applicants must have a Ph.D. or M.D. Highly competitive salary/fringe benefits and interaction with Neuroscientists in the Department ([website: http://neurobiology.umaryland.edu](http://neurobiology.umaryland.edu)) and the Neuroscience Program ([website: http://neuroscience.umaryland.edu/](http://neuroscience.umaryland.edu/)). Send curriculum vitae and names of three references to: **Dr. M. Ennis, Department of Anatomy and Neurobiology, University of Maryland School of Medicine, 685 West Baltimore Street, Baltimore, MD 21201. E-mail: mennis@umaryland.edu. University of Maryland is an Affirmative Action/Equal Employment Opportunity/Americans With Disabilities Act Employer.**

POSITIONS OPEN

PLANT MOLECULAR SYSTEMATIST

The Department of Biology at the University of Toronto at Mississauga (UTM) invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in plant molecular systematics starting July 1, 2003. We are seeking an individual who is using molecular approaches to investigate the systematics and phylogeny of plants and who has interests in broader questions in evolutionary biology and a strong grounding in plant biodiversity. The successful candidate will have a Ph.D., preferably with postdoctoral experience, and an outstanding record and commitment to research.

The appointee will be expected to build an externally funded, internationally recognized research program and to contribute to teaching in the Department at both the graduate and undergraduate levels.

UTM ([website: http://www.utm.utoronto.ca](http://www.utm.utoronto.ca)), one of the three campuses of the University of Toronto, is undergoing an unprecedented period of expansion and offers a dynamic and growing faculty in molecular and evolutionary biology. The close proximity and strong ties across the campuses facilitate interactions with faculty and graduate students from cognate disciplines. The newly completed Centre for Applied Biosciences and Biotechnology at UTM provides state-of-the-art facilities for molecular analysis. Significant herbarium resources are also available at an on-site herbarium and at the Royal Ontario Museum.

Applicants should submit curriculum vitae, a statement of research and teaching interest, and arrange for three letters of reference to be sent to: **Professor G. S. Espie, Department of Biology, University of Toronto at Mississauga, 3359 Mississauga Road, Mississauga, Ontario L5L 1C6 Canada. E-mail: espie@utm.utoronto.ca.** Applications will be accepted until February 28, 2003, although the search will remain open until the position is filled.

The University of Toronto is committed to academic excellence. All qualified candidates are encouraged to apply; however, Canadian and permanent residents will be given priority. The University of Toronto is strongly committed to diversity within its community. The University especially welcomes applications from visible minority group members, women, aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to the further diversification of ideas.

BIOINFORMATICS SPECIALIST

at Wichita State University: We are seeking an individual to establish a bioinformatics program with an emphasis on basic biological research. The successful candidate will devote much of their efforts to develop and maintain an integrated bioinformatics network/facility to serve a diverse research community. A second goal will be to develop a bioinformatics course. Expectations include strong collaborations with faculty on extramurally funded research programs in the application of bioinformatics to basic biological research. The appointment will be at the **RESEARCH ASSISTANT PROFESSOR** level. Requirements include (1) Ph.D. in chemistry, biology, biochemistry, or molecular biology with experience in bioinformatics or computer science with a demonstrated emphasis in bioinformatics; (2) research experience in bioinformatics; (3) demonstrated record of scholarly accomplishment (e.g., publication record); and (4) demonstrated excellent verbal and written communication skills. Relevant interests include proteomics, genomics, gene expression analysis, structure-function domain analyses, database mining, molecular modeling, and programming. Application materials should be sent to: **Dr. William J. Hendry, Department of Biological Sciences, Wichita State University, 1845 Fairmount, Wichita, KS 67260-0026** and must include curriculum vitae, letter of application, and a statement of research interests. Applicants should arrange to have three letters of reference sent to the above address. A detailed position description can be obtained from the University's [website: http://webs.wichita.edu/depttools/user_home/?view=humanr&page=unclassposn/unclassopen](http://webs.wichita.edu/depttools/user_home/?view=humanr&page=unclassposn/unclassopen). Review of applications will begin January 22, 2003. *WSU is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITIONS

DEPARTMENT OF GENOME SCIENCES University of Washington

The Department of Genome Sciences at the University of Washington is beginning a major expansion under its new Chair, **Dr. Robert Waterston**, and will move into a new building in 2006. Research in the Department encompasses both model organism and human genetics and genomics and includes a strong focus in computational biology and in technology development. The Department invites applications for two faculty positions at the rank of **ASSISTANT PROFESSOR**, although exceptional candidates may be considered at the rank of **ASSOCIATE** or **FULL PROFESSOR**. One position is for an individual who is developing technologies for genomic or proteomic analysis and the other is for a Scientist working in the area of human genetics. For the technology development position, contact:

**Chair, Technology Search Committee
Department of Genome Sciences
University of Washington
Box 357730
Seattle, WA 98195**

For the human genetics position, contact:

**Chair, Human Genetics Search Committee
Department of Genome Sciences
University of Washington
Box 357730
Seattle, WA 98195**

Applicants should hold a Ph.D. or M.D. degree. Candidates should send curriculum vitae, a statement of research and teaching interests, and arrange to have three letters of reference sent. The application deadline has been extended until January 15, 2003. For additional information that may be helpful in preparing an application, see the Department's [website: http://www.gs.washington.edu](http://www.gs.washington.edu).

The University of Washington is building a culturally diverse faculty and strongly encourages applications from women and minority candidates. The University of Washington is an Affirmative Action/Equal Opportunity Employer.

NEUROPHARMACOLOGY

To study mechanisms of cell death of cortical neurons *in vivo* as it occurs in human neurodegenerative diseases and head injury. The purpose is identification of novel pharmacological targets for treating cortical cell death. Fellowship is based on recent discoveries in the Koliatsos laboratory implicating a novel cellular mechanism. Up-to-date, hands-on experience working with rats and mice in testing compounds, especially compounds modifying glutamatergic signaling and knowledge of their toxic properties, is essential. Good knowledge of glutamatergic pharmacology and neuroanatomy is also required. Position available January 1, 2003. Reply to: **Vassilis E. Koliatsos, M.D.; e-mail: koliat@jhmi.edu.**

ANIMAL PHYSIOLOGIST, tenure track. **ASSISTANT PROFESSOR**, September 2003, to teach animal physiology, introductory biology, specialty and general degree courses, and mentor student research. Ph.D. preferred; A.B.D. considered. See [website: http://hanover.edu/biology/physiologist](http://hanover.edu/biology/physiologist) for details. Send teaching and research statements, curriculum vitae, transcripts, and three recommendation letters to: **Dr. Walter Bruyninckx, Chair, Physiologist Search, c/o Chris Wilcox, Hanover College, P.O. Box 108, Hanover, IN 47243-0108.** Reviews commence February 1, 2003. *Equal Opportunity Employer. Women and members of underrepresented ethnic groups are encouraged to apply.*

ASSISTANT PROFESSOR EUKARYOTIC GENETICIST

The Department of Biology, Western Kentucky University, invites applications for a nine-month, tenure-track position beginning August 2003. Application review begins February 7, 2003, and continues until the position is filled. Full details are at [website: http://bioweb.wku.edu](http://bioweb.wku.edu). *Affirmative Action/Equal Employment Opportunity. All qualified individuals are encouraged to apply including women, minorities, persons with disabilities, and disabled veterans.*

**DEPARTMENT OF HEALTH AND HUMAN SERVICES
NATIONAL INSTITUTES OF HEALTH
NATIONAL HEART, LUNG, AND BLOOD INSTITUTE**

With nationwide responsibility for improving the health and well being of all Americans, the Department of Health and Human Services (DHHS) oversees the biomedical research programs of the National Institutes of Health (NIH) and those of NIH's research Institutes.

The National Heart, Lung, and Blood Institute, a major research component of the National Institutes of Health and the Department of Health and Human Services, is recruiting a Biologist/Physiologist with experience in the renal physiology of rats and mice to supervise a small laboratory investigating the role of renal sodium transporters and water channels in blood pressure regulation. Applicants should provide evidence of knowledge and abilities in the following: (1) Knowledge of principles, theories, and concepts of physiology, cell biology, biochemistry, molecular biology or related biological science; (2) Ability to carry out physiological experiments in rats and mice; (3) Ability to communicate orally and in writing; (4) Ability to carry out quantitative analysis of scientific data; and (5) Ability to teach scientific methods and physiological concepts. Two years of experience carrying out physiological experiments in animals is required. Experience with blood pressure telemetry and immunochemical techniques (immunocytochemistry and immunoblotting) is desirable.

Salary range is \$46,469 to \$72,400 (GS-11/12) depending on experience. U.S. citizenship required. For information on how to apply and obtain vacancy announcement or for more specific information call **Christine Fisher** on (301) 496-6477 (reference Announcement # HL-02-0153) or via FAX-back by calling (301) 594-2953 and using FAX ID # 4032. Send applications to **DHHS/NIH/NHLBI, Bldg. 31, Rm 5A28, 31 Center Drive MSC 2484, Bethesda, MD 20892-2484**. Applications must be postmarked no later than **January 20, 2003**.

DHHS and NIH are Equal Opportunity Employers.

GLOBAL OPPORTUNITIES



The Victor Chang
CARDIAC RESEARCH INSTITUTE
Sydney, Australia

FACULTY POSITION
Computational Biology,
Bioinformatics or Structural Biology

The Institute seeks applicants for a Faculty Position. The position is profiled towards a senior scientist (Full or Associate Professor level) who can lead our Program in protein structure and genomics utilising macromolecular modelling, bioinformatics, biocomputing or structural biology approaches. However, applications from more junior investigators (Assistant Professor/Senior Lecturer level) will also be considered.

Applicants will be expected to hold a PhD or MD/PhD with relevant postdoctoral training, and to have a track record of outstanding research at an international level that is successful in securing highly-competitive peer-reviewed funding. In addition to his/her own research efforts, it is anticipated that the successful candidate will be interested in interactions with some of the Institute's existing programs in molecular cardiology, developmental biology, molecular genetics, electrophysiology and biophysics, etc.

The appointee will be provided with financial support to enable a high-quality program to be rapidly established, and will be eligible for an academic appointment at the University of New South Wales. Details of the Institute, its programs and faculty are available at: www.victorchang.com.au.

Applicants should send a curriculum vitae, the names of three referees, and a statement of current and anticipated research achievements and directions (by 28th February, 2003) to:

Professor Robert M Graham, Executive Director, VCCRI, 384 Victoria Street, Darlinghurst, Sydney, NSW 2010, Australia.
Fax: +612 9295 8501; email: b.graham@victorchang.unsw.edu.au

AWARDS

**PASAROW FOUNDATION
2002 MEDICAL RESEARCH AWARDS**
Cancer, Cardiovascular Disease, Neuropsychiatry

The Foundation has established three medical prizes for distinguished accomplishment in research in order to increase public awareness of vital areas of investigation. This is the sixteenth year of the awards program. Each award is for \$35,000, presented directly to the awardee.

The three prizes—one in each of the three fields—are given for basic and/or clinical research.

• **Cancer:** including basic cellular processes and the various forms of cancer. Past awardees:

Peter K. Vogt, Ph.D.; Irving L. Weissman, M.D.; George F. Vande Woude, Ph.D.; Erkki Ruoslahti, M.D.; Harold N. Weintraub, M.D., Ph.D.; Ronald M. Evans, Ph.D.; Stanley J. Korsmeyer, M.D.; Carlo M. Croce, M.D.; Alfred G. Knudson, Jr., M.D., Ph.D.; Robert A. Weinberg, M.D.; Eric S. Lander, D.Phil.; Paul L. Modrich, Ph.D.; Anthony S. Fauci, M.D.; Alexander J. Varshavsky, Ph.D.; and Tom Maniatis, Ph.D.

• **Cardiovascular Disease:** including disorders of the heart and vascular system. Past awardees:

Buton E. Sobel, M.D.; Harvey Feigenbaum, M.D.; Bernardo Nadal-Ginard, M.D., Ph.D.; Mordecai P. Blaustein, M.D.; Jonathan Seidman, Ph.D. and Christine Seidman, M.D.; Glenn A. Langer, M.D.; Philip Majerus, M.D.; Jan L. Breslow, M.D.; Kenneth R. Chien, M.D., Ph.D.; Michael A. Gimbrone, Jr., M.D.; Masashi Yanagisawa, M.D., Ph.D.; Mark T. Keating, M.D.; Eric N. Olson, Ph.D.; Richard P. Lifton, M.D., Ph.D.; and Robert J. Lefkowitz, M.D.

• **Neuropsychiatry:** including neuroscience of neurologic and mental disorders. Past awardees:

Nancy Wexler, Ph.D.; Eric R. Kandel, M.D.; Floyd E. Bloom, M.D.; Solomon H. Snyder, M.D.; Michael E. Phelps, Ph.D.; Patricia S. Goldman-Rakic, Ph.D.; Huda Akil, Ph.D. and Stanley Watson, M.D., Ph.D.; Arvid Carlsson, M.D., Ph.D. and Philip Seeman, M.D., Ph.D.; Stanley B. Prusiner, M.D.; Joseph T. Coyle, M.D.; Eric J. Nestler, M.D., Ph.D.; Fred H. Gage, Ph.D.; Michael I. Posner, Ph.D. and Marcus E. Raichle, M.D.; Pasko Rakic, M.D., Ph.D.; and Seymour Benzer, Ph.D.

The criterion for the Pasarow Medical Research Awards is evidence of extraordinary accomplishment and the likelihood of continuing outstanding achievement in biomedical science.

Nominators for the 2002 Award should provide three sets of materials each consisting only of a letter of no more than one page stating the rationale for the nomination and a copy of the nominee's curriculum vitae and bibliography. Applications will be reviewed by the Board of Directors in consultation with various medical scholars. Members of the Board of Directors are Jack D. Barchas, M.D., President and Chairman; Claire Pasarow, Chief Financial Officer; Kenneth R. Chien, M.D., Ph.D., University of California, San Diego; Brian E. Henderson, M.D., University of Southern California; Susan Pasarow, M.S.W., Lake Oswego; Judith L. Swain, M.D., Stanford University; Joseph P. Van Der Meulen, M.D., University of Southern California and Alexander J. Varshavsky, Ph.D., California Institute of Technology. Inquiries can be addressed to Jack D. Barchas, M.D. at New York-Presbyterian Hospital-Weill Cornell Medical Center (212-746-3770). Nominations should be received by **January 20, 2003**:

Robert J. and Claire Pasarow Foundation
c/o Annlouise Goodermuth
Weill Medical College, Cornell University
1300 York Avenue, Box 171, Room F-1231
New York, NY 10021

POSITIONS OPEN

TENURE-TRACK POSITION Marine Science

The University of Texas at Austin, Department of Marine Science, and Marine Science Institute invite applications for a position specializing in physical-biological interactions in the coastal environment using experimental studies, field studies, and/or a modeling approach. The successful candidate will be based on the Gulf of Mexico coast at the Marine Science Institute in Port Aransas, Texas, and will hold a joint appointment as a tenure-track **ASSISTANT PROFESSOR** in the Department and as a **RESEARCH ASSISTANT PROFESSOR** at the Institute. Candidates must have a Ph.D. degree at the time of appointment and will be expected to develop an externally funded research program. Preference will be given to candidates with a strong research and publication record; postdoctoral experience is desirable. The successful candidate will contribute to graduate and undergraduate education through course instruction and student advising and must be capable of teaching physical oceanography to graduate students. The position receives nine months of annual salary support from the state. Start-up funds will be available with levels contingent upon state funding. For more information about the Institute, research vessels, and facilities, please see our website: <http://www.utmsi.utexas.edu>. Applicants should send a statement of research and teaching interest (three pages maximum), curriculum vitae, and the names and addresses of five references to: **Search Committee Chair, The University of Texas Marine Science Institute, 750 Channel View Drive, Port Aransas, TX 78373-5015**. The research interests statement should mention how the research program would benefit from being based on the Gulf coast. Review of applications will start 1 February 2003 and will continue until the position is filled. *The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION APPLIED SCIENCE DEPARTMENT

The Applied Science Department of the College of William and Mary invites applicants for a tenure-track position at the **ASSISTANT PROFESSOR** level in biomedical engineering, biomaterials, or a related field emphasizing either computational or experimental tools. The new faculty member will be asked to contribute significantly to leadership in the effort of the Department and the College to strengthen life sciences activities. Further, he or she will be strongly encouraged to form collaborations with other William and Mary members and with external institutions as appropriate. Excellence and high commitment in the teaching of undergraduate and graduate students is expected of all faculty at the College. The Applied Science Department occupies facilities on William and Mary's main campus in Williamsburg, Virginia, and at the Applied Research Center at Jefferson Laboratory in nearby Newport News, Virginia. Candidates should submit complete curriculum vitae, copies of no more than five refereed publications in the above areas, and have at least three letters of recommendation submitted on their behalf to: **New Faculty Search, Department of Applied Science, The College of William and Mary, P.O. Box 8795, Williamsburg, VA 23187-8795**. Review of materials is expected to begin about January 15, 2003, and continue until the position is filled. *The College is an Equal Employment Opportunity/Affirmative Action Employer.*

CLINICAL CYTOGENETICIST

Position available immediately for **TECHNOLOGIST** to work in a clinical and research cytogenetics laboratory. Undergraduate degree in biology and experience with tissue culture and chromosome banding analysis required. Fish expertise preferred. Position involves cytogenetic analysis of bone marrow, tumor specimens, and cell lines. Campuslike environment in a suburban setting. Submit curriculum vitae and names of two references to: **Joseph R. Testa, Ph.D., c/o Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111**.

POSITIONS OPEN



FACULTY POSITION IN MICROBIOLOGY Cedar Crest College

Cedar Crest College is a four-year, independent liberal arts college for women. The Department of Biological Sciences, a growing department with strong academic and undergraduate research programs in genetic engineering, neuroscience, biodiversity and conservation biology, bioinformatics, and nuclear medicine technology, seeks to fill a tenure-track faculty position beginning fall 2003. Teaching responsibilities include an upper-level course in the candidate's area of expertise and distinct courses in microbiology for majors and for nursing and nutrition students. An active research program with extensive undergraduate involvement is expected. The Department has 11 full-time faculty and outstanding facilities including confocal and fluorescent microscopes, a DNA sequencer, thermocyclers, high-speed and ultracentrifuges, a bioinformatics laboratory with UNIX and Windows workstations, and a fully equipped Macintosh laboratory.

All applicants must hold the Ph.D. degree. Please submit curriculum vitae, a detailed statement of teaching philosophy and research goals, publications, and three letters of reference to: **Dr. Alan Hale, Chair, Department of Biological Sciences, Cedar Crest College, 100 College Drive, Allentown, PA 18104-6196**. Review of applications will begin immediately. *Cedar Crest College is an Equal Opportunity Employer.*

TENURE-TRACK FACULTY POSITION Environmental Sciences and Science Policy

Environmental Sciences and Science Policy: Interdisciplinary Environmental Studies Department in the College of Public Affairs and Administration seeks a tenure-track **ASSISTANT PROFESSOR** beginning August 15, 2003. Candidates must have a Ph.D. in an appropriate field: biology, chemistry, geology, or a related discipline; evidence of research potential; and the ability to teach graduate courses in the environmental sciences. Teaching expectations include ecology and a broad-based, integrated natural science course that brings together the natural and environmental sciences. Send letter of application describing teaching and research interests, curriculum vitae, transcripts, and the names and addresses of at least three references to: **Search Committee, Department of Environmental Studies, University of Illinois at Springfield, One University Plaza, Springfield, IL 62703**. Review of applications will begin February 1, 2003, and continue until the position is filled.

The University of Illinois at Springfield is an Affirmative Action/Equal Employment Opportunity Employer. Persons with disabilities, women, and minorities are encouraged to apply.

HEAD, DEPARTMENT OF BIOLOGY Western Carolina University

The Department of Biology invites applications for a tenure-track **ASSOCIATE** or **FULL PROFESSOR** to serve as Department Head. Western Carolina University is a comprehensive regional university of approximately 7,000 students located near Asheville and the Great Smoky Mountains National Park. The Biology Department consists of a small but diverse group of faculty. We will consider applicants in all subdisciplines of zoology with experience in biotechnology preferred. A Ph.D. and a record of excellence in research and teaching are required. The Department Head will be expected to maintain a research program involving undergraduate and M.S. students. Please send a letter of application, curriculum vitae, teaching and research interest statements, and three letters of reference to: **Dr. Paul Wright, Department of Biology, Western Carolina University, Cullowhee, NC 28723**. Review of applications will begin January 15, 2003, and continue until the position is filled. *Western Carolina University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITIONS Applied Genomics, Proteomics, and Bioinformatics

The Public Health Research Institute (PHRI) is seeking new faculty members with expertise in applied genomics, proteomics, and/or bioinformatics at the junior or senior level. PHRI offers an active, collegial research environment; new state-of-the-art laboratory facilities; start-up funds; and a generous benefits package. Opportunity is present for strong interactions with other groups using genomic approaches and particularly to the PHRI Center for Applied Genomics (CAG), which specializes in the application and development of microarray technology. Available CAG resources include in-house robotic manufacturing and scanning of DNA and protein microarrays, an integrated Affymetrix GeneChip System, and access to an Oracle-based microarray database with customized analysis tools. The Institute is located in the heart of Newark, New Jersey's, academic community and is flanked by the University of Medicine and Dentistry of New Jersey, Rutgers University, and the New Jersey Institute of Technology. Cross-appointments are possible. Further information about PHRI and the CAG can be found at website: <http://www.phri.org>. Candidates must have a research program that is funded or, in the case of a junior applicants, eminently fundable. Interested parties should submit curriculum vitae, a statement of research interests and accomplishments, and a list of at least three references to: **Dr. Leonard Mindich, Chairman, Recruitment Committee, Public Health Research Institute, 225 Warren Street, Newark, NJ 07103**.

The PHRI is an Equal Opportunity Employer.

Okanagan University College (OUC) is a comprehensive, multicampus institution delivering postsecondary education and training to the population in British Columbia, Canada's, southern interior. With 7,000 full- and part-time students enrolled in vocational, developmental, applied and academic programs, OUC is focused on developing new and more responsive answers to the learning needs of an evolving society and economy.

OUC is currently seeking applications for the following position: **ASSISTANT PROFESSOR, BIOLOGY**, Faculty of Science, Kelowna, Competition Number 111FAC02. Probationary, tenure-track appointment. Closing date: March 31, 2003.

Full details on this and other positions currently open at Okanagan University College may be viewed on our website: <http://www.ouc.bc.ca/jobpostings>.

Okanagan University College wishes to thank all applicants for their interest. Only those applicants selected for further consideration will be contacted. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and landed immigrants (permanent residents) of Canada.

BIOLOGY/VISITING CELL BIOLOGIST:

The Mount Holyoke College Department of Biological Sciences invites applications for a **VISITING ASSISTANT PROFESSOR** during the 2003-2004 academic year. Ph.D. required and experience in transmission electron microscopy desirable. Responsibilities include coteaching a cell biology course and teaching an appropriate advanced-level course. Send curriculum vitae, statements of teaching interests/philosophy and research interests (including potential research projects for undergraduates), transcripts, reprints of recent publications, and arrange for three letters of recommendation to be sent to: **Frank DeToma, Chair, Department of Biological Sciences, South Hadley, MA 01075**. E-mail: biology@mtholyoke.edu. Deadline for applications: January 15, 2003. *Mount Holyoke College is an Equal Opportunity/Affirmative Action Employer. Women and persons of color are especially encouraged to apply.*

SCIENTISTS I AND II to develop recombinant protein expression systems. Requires Ph.D. in molecular biology or related field such as biochemistry, biotechnology, or cell biology plus experience. Salary based on experience level. No J-1s or H-1Bs. Mail résumé to: **L. Fountain, GlycoFi, 21 Lafayette Street, Suite 200, Lebanon, NH 03766**.

GRANTS

What is NCCAM?

A component of the National Institutes of Health, NCCAM supports rigorous scientific research on complementary and alternative healing practices, educates and trains CAM researchers, and disseminates information to the public and professionals.



\$5.3 Million Available in 2003 for New Research Centers

www.nccam.nih.gov

The National Center for Complementary and Alternative Medicine (NCCAM) announces three new programs to advance complementary and alternative medicine (CAM) research.

Centers of Excellence for Research on Complementary and Alternative Medicine

Centers of Excellence will support **program project grants** (P01) to elucidate the mechanisms of action of CAM modalities. These awards will provide new opportunities for experienced molecular or cellular biologists, imaging scientists, immunologists, neurobiologists, pharmacologists, physiologists, and other scientists to investigate fundamental questions related to CAM.

*Letters of intent due March 29, 2003
Receipt date is April 29, 2003*

Developmental Centers for Research on Complementary and Alternative Medicine

Developmental Centers will support **U19 cooperative agreements** in which CAM and conventional institutions and investigators partner to conduct **exploratory and developmental research projects**. These awards will provide opportunities for CAM institutions

and investigators to strengthen their research expertise and infrastructure while enabling conventional researchers to gain clinical and cultural perspectives critical to the conduct of CAM research.

*Letters of intent due March 14, 2003
Receipt date is April 15, 2003*

Planning Grants for International Centers for Research on Complementary and Alternative Medicine

Planning Grants for International Centers will support U.S. and international institutions to jointly plan exploratory and developmental studies of traditional/alternative healing approaches. The Planning Grants will lay the groundwork for developing applications for an International Center for Research on CAM that will be called for in 2004.

*Letters of intent due February 28, 2003
Receipt date is March 28, 2003*

National Institutes of Health • Department of Health and Human Services

COLUMBIA UNIVERSITY MOLECULAR CARDIOLOGY CENTER

Positions available immediately at the Center for Molecular Cardiology, Columbia University: (1) generating and characterizing genetic mouse models of cardiac diseases; ideal candidate has Ph.D. in molecular biology and several years of experience making knock-out and knock-in mouse models; (2) studies of calcium signaling in cardiomyocytes; ideal candidate has Ph.D. in physiology or related field and several years of experience using fluorescence microscopy to study calcium signaling in muscle; (3) postdoctoral research position in cellular electrophysiology to study voltage gated ion channels in the heart; ideal candidate has M.D. and/or Ph.D. and training in electrophysiology of ion channels.

Applicants should e-mail CV, brief description of their research background, goals for the future, and three references to:

**Andrew R. Marks, M.D., Director
Center for Molecular Cardiology
Columbia University
er277@columbia.edu**

We are an affirmative action/equal opportunity employer.

FACULTY POSITION Medical Physicist

The Department of Radiology at the University of Iowa is seeking a board certified medical physicist or other qualified research scientist with expertise in general radiological physics for a tenure track open rank faculty position. Enthusiasm for garnering extramural research support for investigator-initiated scientific research is desirable. The primary responsibilities of this position include minor support of diagnostic radiology/mammography functions, developing an independent research program and teaching physics to diagnostic radiology residents and students.

The University of Iowa Hospitals and Clinics has state of the art radiographic equipment including digital fluoroscopy, multi-slice CT scanners, digital mammography and an integrated PACS system. The Iowa City's community educational systems ranks as one of the best in the United States; the crime is low; it is just a great place to live.

Send resume and cover letter to: **Laurie Lee Fajardo, M.D., Professor and Head, The University of Iowa, Department of Radiology, 200 Hawkins Drive, Iowa City, Iowa 52242.**

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

FACULTY POSITION MRI PHYSICIST

The Department of Radiology at the University of Iowa, Carver College of Medicine is seeking an MRI physicist/experienced MRI research scientist for a tenure track open rank faculty position. The primary responsibilities of this position include developing an independent research program, supporting MRI clinical and research activities and teaching MRI physics to graduate students, radiology residents, and MRI technologists. Doctoral or post doctoral training or experience in medical MRI is required. Enthusiasm for garnering extramural research support for investigator-initiated scientific research and/or a training program for post-graduate students is highly desirable.

The University of Iowa Hospitals and Clinics currently has four MRI scanners that include a cardiovascular MRI unit, an open MRI scanner and two conventional MRI scanners. Future expansions are underway to acquire a 3T MRI system and to acquire two new 1.5T state of the art scanners. The Iowa City's community educational system ranks as one of the best in the United States; the crime rate is low; it is just a great place to live.

Send resume and cover letter to: **Laurie Lee Fajardo, M.D., Professor and Head, The University of Iowa, Department of Radiology, 200 Hawkins Drive, Iowa City, Iowa 52242.**

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

POSITIONS OPEN

DIRECTOR

Environment and Natural Resources Institute

The University of Alaska Anchorage (UAA) College of Arts and Sciences (CAS) is soliciting applications for the position of Director of the Environment and Natural Resources Institute (ENRI) with the possibility of an appointment as **ASSOCIATE DEAN FOR RESEARCH** in CAS. ENRI conducts a diverse range of research on Alaska's environment, natural resources, and peoples and has four formal programs that maintain specialized collections of information that are open to the public. As Director of ENRI, the applicant holds a senior-level appointment with academic rank in an appropriate department of UAA (CAS website: <http://www.uaa.aslaska.edu/cas/>. ENRI website: http://www.uaa.alaska.edu/enri/enri_web/enrihome.html).

Responsibilities: Direct the Environment and Natural Resource Institute of the College of Arts and Sciences (CAS). The successful candidate must have a vision for expanding ENRI's basic and applied research capabilities while maintaining its current public service and research mission. The ENRI Director will work as part of the CAS Dean's Office team in meeting the College's and University's research mission and will be expected to collaborate with ENRI Researchers to expand its funding base and develop relationships and interactions with faculty and other internal and external constituents.

Requirements: The successful candidate must possess the following qualifications: a Ph.D. or terminal degree in a relevant natural resources or related policy field and experience commensurate with a senior-level academic appointment; demonstrated record of leadership in academic research, science and technology services, applied research, and administration; and vision, skills, planning experience, and proven ability to implement successful programs in competitive grants arenas.

Refer to website: <http://www.finsys.uaa.alaska.edu/uaahrs> for specific information about this position and for application requirements. Review of applications will begin January 31, 2003, and continue until filled. Send application to: **UAA Human Resource Services, University of Alaska Anchorage, 3211 Providence Drive, Anchorage, AK 99508.**

The University of Chicago invites applications for a nontenure-track position as **SENIOR LECTURER/LECTURER** in the Biological Sciences Collegiate Division. The successful candidate will have expertise in neurobiology and physiology and will team teach in the areas of cellular and systems neurobiology and physiology, taking lead responsibility of laboratory components in these courses. In addition, he/she will also teach a nonmajors course in one of these areas. The teaching load is four courses per year. Opportunities exist to develop curricula and to interact with a diverse and committed teaching staff and an outstanding student body. The successful candidate will join a team of nine undergraduate teachers. We are seeking broadly trained Ph.D. applicants with teaching experience. Send curriculum vitae; three letters of reference; and a statement of teaching interest by February 14, 2003, to: **Jose Quintans, The University of Chicago, Biological Sciences Learning Center, Room 104C, 924 East 57th Street, Chicago, IL 60637.** *The University of Chicago is an Equal Opportunity/Affirmative Action Employer.*

MOLECULAR NEUROBIOLOGY

To study mechanisms of cell death of cortical neurons *in vivo* as it occurs in human neurodegenerative diseases and head injury. The purpose is identification of novel molecular targets for treating cortical cell death. Fellowship is based on recent discoveries in the **Koliatsos** laboratory implicating a novel cellular mechanism. Up-to-date, hands-on experience with gene expression methodologies in small tissue samples including but not limited to quantitative/real time RT-PCR and DNA chip arrays is essential. Strong background in molecular biology and working knowledge of neuroscience is also required. Position available January 1, 2003. Reply to: **Vassilis E. Koliatsos, M.D.; e-mail: kolia@jhmi.edu.**

POSITIONS OPEN



The National Aeronautics and Space Administration (NASA) Goddard Space Flight Center wishes to announce its plans to fill the position of **HEAD OF THE BIOSPHERIC SCIENCES BRANCH**. This vacancy, in the Laboratory for Terrestrial Physics within the Earth Sciences Directorate, will be filled as a permanent Civil Service position and is located in Greenbelt, Maryland. This announcement is open for a period of three months from December 16, 2002, to March 14, 2003. For a more in-depth description of current activities within the Biospheric Sciences Branch, specific details about the position requirements, and how to formally apply, see website: <http://itpwww.gsfc.nasa.gov/bsb/Home.html>. *NASA is an Equal Opportunity Employer.*

FACULTY POSITION, OPEN RANK Monocot Transformation/Molecular Biology

The Department of Plant Sciences and Landscape Systems at the University of Tennessee invites applications for a tenure-track position in monocot transformation/molecular biology. The successful candidate will establish a nationally and internationally recognized research program. The 12-month appointment will have responsibilities proportioned to 80% research and 20% teaching. The Department has an ongoing, extramurally funded switchgrass transformation program and has strong interests in turf grass, forage, and herbaceous biomass crops. He/she may focus on transformation, gene expression, or other aspects of plant molecular biology of important agronomic and/or horticultural species of the applicant's choice. The candidate will teach, mentor, and supervise M.S. and Ph.D. graduate students and Postdoctoral Fellows. The candidate's laboratory will reside in a new, 133,000-square-foot, multidisciplinary plant biotechnology research building. The candidate should have a Ph.D. in a plant biology-related discipline with training and experience in plant biotechnology and molecular biology. At the Assistant Professor level, preference will be given to those with postdoctoral experience. Interested candidates should submit the following materials as an application: a letter of interest that outlines research and teaching interests; curriculum vitae; copies of transcripts; and the names, postal and e-mail addresses, and telephone numbers of four references to: **Dr. Neal Stewart, Search Committee Chair, Monocot Transformation Position, Department of Plant Sciences and Landscape Systems, 2431 Center Drive, 252 Ellington Plant Sciences, The University of Tennessee, Knoxville, TN 37996-4561.** Screening of applicant's credentials will begin February 15, 2003, and continue until the position is filled. *The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/Americans With Disabilities Act/Age Discrimination in Employment Act Institution in the provision of its Education and Employment programs and services.*

PROJECT MANAGER, molecular technology. Evaluate and develop molecular marker systems; facilitate the improvement of molecular technologies; hire, supervise, and provide technical direction to subordinates in the molecular genetics/marker development team. Ph.D. in agricultural sciences or related field or equivalent combination of education and related experience plus five years of experience in job offered or as Molecular Biologist. Demonstrated ability to apply advanced mathematical concepts and operations such as exponents, logarithms, quadratic equations, permutations, frequency distribution, determination of test reliability and validity, analysis of variance, correlation techniques, sampling theory, and factor analysis. Demonstrated ability to clearly communicate verbally and in writing complex technical data. Forty hours per week; \$58,916 per year. *Must have proof of legal authority to work in United States.* Send your résumés to: **Iowa Workforce Center, 122 Kellogg Avenue, Ames, IA 50010-0410.** Please reference Job Order Number 1101655. *Employer paid ad.*

POSITIONS OPEN

AQUATIC ECOLOGY DIVISION OF BIOLOGICAL SCIENCES The University of Montana

The Division of Biological Sciences (DBS) at the University of Montana invites applications for a tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** in freshwater ecology (population or community emphasis) available August 2003. Responsibilities are in undergraduate and graduate programs within DBS and in the interdisciplinary Fish and Wildlife Biology Program; active participation as a member of both the ecology and the wildlife biology faculties is expected. Expected teaching includes freshwater ecology; a graduate course or seminar; and ecology (for majors) alternating annually with an upper-level specialty course. The successful applicant will be expected to develop a vigorous, extramurally funded research program in aquatic ecology and to mentor undergraduate and graduate students. Ph.D. required; teaching and postdoctoral research experience desired. Opportunities to interact with research and academic programs at the University's Flathead Lake Biological Station are available. Individuals with research interests that complement those of existing faculty are strongly encouraged to apply. For more information, see websites: <http://biology.dbs.umt.edu/> and <http://www.forestry.umt.edu/academics/wildlife>.

To apply, send (electronically if possible to [e-mail: swonders@selway.umt.edu](mailto:swonders@selway.umt.edu)) a summary of research interests and future research plans; statement of teaching interests; and contact information for three references to: **Dr. Fred Allendorf, Search Committee Chair, HS104, Division of Biological Sciences, The University of Montana, Missoula, MT 59812.** Telephone: 406-243-5122. Review of applications will begin January 20, 2003. *Equal Opportunity/Affirmative Action Employer.*

ENDOWED CHAIR

**Evelyn F. McKnight Chair
for Brain Research in Memory Loss
Evelyn F. and William L. McKnight
Brain Institute of the University of Florida**

The University of Florida announces the creation of an Endowed Chair for a Scientist working on mechanisms of age-related changes in memory. Potential areas of research may include studies ranging from molecular to systems approaches. Applicants must have a Ph.D. and/or M.D. degree and evidence of a nationally recognized research program. Laboratory and office space will be provided in the new state-of-the-art Evelyn F. and William L. McKnight Brain Institute Building (website: <http://www.mbi.ufl.edu>). Salary and academic rank of **ASSOCIATE PROFESSOR** or above for this tenure-track position will be commensurate with experience.

Send curriculum vitae, a statement of research goals, and the names of three references to:

**Dr. John M. Petitto
Chair of the Search Committee
McKnight Brain Institute
100 Newell Drive, Box 100015
University of Florida
Gainesville, FL 32610-0015
Telephone: 352-294-0416; FAX: 352-294-0425
E-mail: jpetitto@psych.med.ufl.edu**

Applications should be received by February 1, 2003. The anticipated earliest start date is July 1, 2003. *The University of Florida is an Equal Opportunity Employer. Minorities and women are encouraged to apply.*

HEMATOPOIESIS/LEUKEMIA

Funded **POSTDOCTORAL POSITION** available to study the regulation of myeloid differentiation and leukemogenesis by the C/EBP and CBF oncoproteins (*Oncogene* 21:3377, 2002; *Molecular & Cellular Biology* 22:8278, 2002). Please send curriculum vitae and names and telephone numbers of three references to: **Alan Friedman, M.D., Johns Hopkins Cancer Research Building, Room 253, 1650 Orleans Street, Baltimore, MD 21231.** FAX: 410-955-8897; e-mail: afriedm2@jhmi.jhmi.edu. *An Equal Opportunity/Affirmative Action Employer.*

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PFF in Science and Mathematics is supported by the National Science Foundation. For more information visit the Council of Graduate Schools' PFF web site at www.preparing-faculty.org or email Daniel Denecke, PFF Program Manager at ddenecke@cgs.nche.edu.



POSITIONS OPEN

MICROBIAL SYSTEMATIST

The American Museum of Natural History (AMNH) is seeking a midcareer- to senior-level Scientist to fill a tenure-track position in the field of microbial systematics with emphasis on the use of genomic techniques beginning September 2003. The successful candidate will be appointed at the rank of **ASSOCIATE or FULL CURATOR**. Candidates must have an established record of funded research in systematics and/or phylogenetics of microbes using genomic techniques and demonstrate the experience and ability to guide the establishment of a new initiative in microbial research at the AMNH. Areas of taxon research focus can include bacteria, archaea, protists, or fungi (but not viruses). Applicants must have a strong commitment to the use and continued development of the Ambrose Monell Collection for Molecular and Microbial Research at the American Museum as a complement to their research programs.

Application materials should include curriculum vitae, statement of research interests and goals, copies of publications relevant to the application, and at least three letters of reference from individuals capable of commenting on the capabilities of the candidate. The deadline for submission of application materials is December 20, 2002. Interviews will be conducted by the end of January 2003. Materials should be sent to: **Chair, Microbial Systematist Search, Division of Invertebrate Zoology, The American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024**. Alternatively, application materials may be directed to e-mail: microsys@amnh.org. *Equal Opportunity Employer.*

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Only applicants currently living in North America can be considered for these openings. Procter & Gamble is an Equal Opportunity Employer.

PLANT PHYSIOLOGIST. Provide technical and nontechnical direction to all subordinates and co-workers before, during, and after all routine and non-routine tasks for plant physiology research projects; establish goals and objectives for projects; establish short- and long-range priorities and milestones for projects; recruit, train, and supervise individuals in subordinate positions. M.S. degree in plant physiology, biochemistry, genetics, or related field. Knowledge of and/or practical experience with the following: plant physiology and associated research approaches to understanding plant response to stress; advanced mathematical concepts such as exponents, logarithms, quadratic equations, permutations, frequency distribution, determination of test reliability and validity, correlation techniques, sampling theory, and factor analysis. Demonstrated ability to write speeches and articles for publications. Willingness to travel 5%. Forty hours per week; \$47,302 per year. *Must have proof of legal authority to work in United States.* Send your résumés to: **Iowa Workforce Center, 215 Watson Powell Jr. Way, Des Moines, IA 50309-1727**. Please reference Job Order Number 1101653. *Employer paid ad.*

POSITIONS OPEN



SENIOR DEVELOPMENTAL NEUROBIOLOGIST The University of Miami

The Department of Biology invites applications from established Developmental Neurobiologists for a faculty position at the **ASSOCIATE PROFESSOR or PROFESSOR** level. The Department of Biology is described at website: <http://www.bio.miami.edu/>. The University of Miami also has a nationally ranked Neuroscience Program with graduate and undergraduate components described at website: <http://chroma.med.miami.edu/neuro/>.

In addition to a Ph.D. or equivalent degree and a recognized and productive research program (as indicated by substantial national grant funding), the successful applicant is expected to have had teaching experience at the graduate or undergraduate level and, in addition, teaching interests that include both developmental biology and neurobiology as well as enthusiasm for a leadership role in our undergraduate neuroscience major. Applications will be reviewed beginning 30 January 2003. Applicants should send a statement of research interests, curriculum vitae, representative publications, and either the names of three references or arrange to have three reference letters sent to: **Dr. David Wilson, Search Committee Chair, Department of Biology, University of Miami, P.O. Box 249118, Coral Gables, FL 33124**. E-mail: williams@bio.miami.edu, Attention: Staff Assistant. Salary is competitive and commensurate with experience.

The University of Miami is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.

POSTDOCTORAL NEUROIMMUNOLOGY RESEARCH FELLOWSHIP University of California, San Francisco

A Research Fellowship is available to study mechanisms involved in central nervous system antigen presentation and T cell activation in murine experimental autoimmune encephalomyelitis, a model for multiple sclerosis. Studies involve cellular immunology, molecular biology, and transgenic technology. Fellow will work under the guidance of **Dr. Scott S. Zamvil, M.D., Ph.D., Department of Neurology, University of California, San Francisco, 521 Parnassus Avenue, C-440, San Francisco, CA 94143**. E-mail: zamvil@itsa.ucsf.edu.

The University of Chicago invites applications for a nontenure-track position as **SENIOR LECTURER/LECTURER** in the Biological Sciences Collegiate Division. The applicant will develop, coordinate, and teach introductory general biology courses, which will include state-of-the-art laboratories. We are seeking broadly trained Ph.D. applicants with teaching and research experience who are competent to teach cell/molecular, organismal, and population biology at the introductory survey level. Send curriculum vitae; three letters of reference; and a statement of teaching interest by February 14, 2003, to: **Jose Quintans, The University of Chicago, Biological Sciences Learning Center, Room 104C, 924 East 57th Street, Chicago, IL 60637**. *The University of Chicago is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION in genetics/lipid metabolism for gene mapping in Amish pedigrees for lipid disorders, diabetes and hypertension, and search for new gene causing hyperlipidemia. Send curriculum vitae and names of three references to e-mail: fwelty@caregroup.harvard.edu.

POSITIONS OPEN

TWO POSTDOCTORAL POSITIONS The Cancer Institute of New Jersey

Challenging role for Postdoctoral applicants to study the roles of MAP-4 (microtubule-associated protein 4) and p53 in cancer drug sensitivity/resistance or to study the role of a novel protein kinase, elongation factor-2 kinase (CaM Kinase III), in cellular proliferation and in the growth of cancer cells. Recent Ph.D. and/or M.D. with training in biochemistry, molecular biology, pharmacology, or comparable field of study is required. Experience in molecular biology and cell culture is essential.

Interested applicants should send curriculum vitae and list of three references to: **Drs. William N. Hait, M.D., Ph.D., and Jin-Ming Yang, Ph.D., The Cancer Institute of New Jersey, 195 Little Albany Street, New Brunswick, NJ 08901**.

The Cancer Institute of New Jersey is the State's only NCI-designated Comprehensive Cancer Center. For more information, visit website: <http://www.umdnj.edu/hrweb>. *University of Medicine and Dentistry of New Jersey is an Affirmative Action/Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.*

A **POSTDOCTORAL POSITION** is available immediately to study the role of transcription repressor BCL-6 in normal B cells and B cell lymphomas. Applications are sought from highly motivated individuals with strong background in molecular biology, immunology, and/or biochemistry. Prior experience with signal transduction, B cell differentiation, or *in vitro* and/or *in vivo* tumor models will be a plus but not essential. More information can be found at website: <http://bcl6.aecom.yu.edu>. To apply, please send curriculum vitae, a brief description of research interests, and contact information for three references to: **Dr. B. Hilda Ye, Department of Cell Biology, Albert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, NY 10461**. E-mail: position@cellbio.aecom.yu.edu. *Albert Einstein College of Medicine is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION University of Wisconsin, Madison

A Postdoctoral Research Assistant Position is available immediately in the Agronomy Department to investigate the biosynthesis of antioxidants in oat (*Avena sativa*) cell suspension cultures. Qualified candidates must have a Ph.D. in biochemistry, plant physiology, or plant biology. Experience in plant molecular biology is essential. A strong background and interest in secondary metabolism, biosynthesis of phenyl propanoids, and techniques in enzyme isolation and HPLC are desirable. Experience with plant cell suspension culture is a plus. Applicants should send a letter of application, curriculum vitae, and contact information for at least three references to: **Dr. Heidi Kaeppler, Agronomy Department, University of Wisconsin, Madison, WI 53706**.

POSTDOCTORAL ASSOCIATE POSITIONS Institute of Marine and Coastal Sciences Rutgers, the State University of New Jersey

One-year appointments, renewable, in the areas of biological, chemical, geological, and physical oceanography. Please send résumé; a statement of research interest; and the names of three references by January 15, 2003, to: **Dr. J. Frederick Grassle, Rutgers, The State University, Institute of Marine and Coastal Sciences, 71 Dudley Road, New Brunswick, NJ 08901-8521**. *Rutgers is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL FELLOW, technician; expertise in molecular biology, protein chemistry to work in viral genetics, cell biology of neuroHIV, or genetics of neurodevelopmental disorders. Forward curriculum vitae and references to: **Bradford Navia, M.D., Ph.D., Box 1007, Laboratories of Research in Psychiatry, Tufts New England Medical Center, Boston, MA 02111**. E-mail: bnavia@lifespan.org.

POSITIONS OPEN

DARWIN FELLOW

The Graduate Program in Organismic and Evolutionary Biology at University of Massachusetts Amherst (UMASS) announces a two-year **POSTDOCTORAL RESEARCH/LECTURESHIP**. More than 80 faculty members in 10 campus departments are committed to the study of ecology, organismic, and evolutionary biology and offer unique training and research opportunities for recent Ph.D.s. Our research/lecture position allows independent research with a faculty member and experience developing and teaching a one-semester undergraduate biology course. Position subject to availability of funds. First year salary: \$30,000; second year salary: \$32,000.

To apply, send curriculum vitae, three letters of reference, statements of research and teaching interests, and letter of support from your proposed UMASS Amherst faculty sponsor. A list of faculty and additional information is available at [website: http://www.bio.umass.edu/oeb](http://www.bio.umass.edu/oeb).

OEB Darwin Fellow
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University of Massachusetts Amherst
Amherst, MA 01003
Telephone: 413-545-0928
E-mail: darwin@bio.umass.edu

Application review begins January 22, 2003. Position remains open until successful candidate is selected. Start date: September 1, 2003.

The University of Massachusetts Amherst is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

POSTDOCTORAL POSITIONS

Proteomics of the Eukaryotic Transcription Machinery
Vanderbilt University Medical Center

Two Postdoctoral positions are available to examine the proteomics and mechanisms of the eukaryotic transcription machinery. We are dissecting the protein-protein interactions that are important for the modulation of RNA polymerase II-mediated mRNA gene transcription using the Baker's yeast *Saccharomyces cerevisiae* system. We currently utilize a combination of proteomic, biochemical, genetic, and biophysical methods to study the regulation and interactions of these proteins with each other, DNA, other transcription factors, and signal transduction molecules. Details can be obtained at [website: http://www.mc.vanderbilt.edu/vumcdept/mpb/weil/weil_lab.html](http://www.mc.vanderbilt.edu/vumcdept/mpb/weil/weil_lab.html). Interested parties should send curriculum vitae and names of references to: **Dr. Tony Weil**, Department of Molecular Physiology and Biophysics, Vanderbilt University, School of Medicine, Nashville, TN 37232-0615. FAX: 615-322-7236.

POSTDOCTORAL FELLOWSHIPS, Harvard Medical School/Veterans Administration Boston Healthcare System. NIH and VA-funded position; available now. Studies on the effects of ethanol on cell adhesion mediated by the L1 cell adhesion molecule (*J. Cell Biol.* 133:381, 1996) and the development of ethanol antagonists (*PNAS* 97:3690, 2000; *FASEB J.* 15:1649, 2001; *JPET* 303:110, 2002). Expertise in molecular biology, cell biology, or biochemistry required. *U.S. citizen or resident alien preferred*. E-mail curriculum vitae and references to: **Dr. Charness**; e-mail: mcharness@hms.harvard.edu. *Affirmative Action/Equal Opportunity Employer.*

An NIH-funded **POSTDOCTORAL POSITION** is available immediately to work on the catabolism of glycoconjugates with special emphasis on chemical pathology of inborn lysosomal diseases such as Tay-Sachs disease. Previous experience in glycobiology, molecular, and cell biology is essential. Send curriculum vitae and two references to: **Y.-T. Li**, Department of Biochemistry, SL-43, Tulane University Health Sciences Center, New Orleans, LA 70112. E-mail: sl4@tulane.edu. Applications will be accepted until a qualified candidate is identified.

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POSTDOCTORAL POSITIONS

Reproductive Biology
Northwestern University

Postdoctoral positions are available in reproductive biology for highly qualified applicants. A diverse but integrated program offers research training in molecular, biochemical, cellular, physiological, and behavioral aspects of reproduction. Participating faculty include **Andrea Dunaif** (metabolism and reproduction, genetics of polycystic ovarian syndrome); **Erwin Goldberg** (molecular biology of the testis); **Mary Hunzicker-Dunn** (ovarian signal transduction); **J. Larry Jameson** (hormonal regulation of gene expression, reproductive development); **Jon Levine** (neuroendocrinology, steroid actions in brain); **Daniel Linzer** (molecular endocrinology); **Kelly Mayo** (gene regulation in reproductive systems); **Fred Turek** (seasonal cycles/circadian clocks); **Teresa Woodruff** (ovarian physiology and molecular endocrinology); and **Catherine Woolley** (hormonal regulation of brain plasticity). Send curriculum vitae and names of three references to: **Dr. Jon E. Levine**, Department of Neurobiology and Physiology, Northwestern University, 2153 North Campus Drive, Evanston, IL 60208-3520. E-mail: jlevine@northwestern.edu. *Applicants must be eligible for NIH training support (U.S. citizen or permanent resident). An Equal Opportunity Employer.*

POSTDOCTORAL POSITION

Developmental Neuroscience

A position is available to study the genetic basis of neuronal diversity and patterning using the zebrafish retina and ear sensory epithelia as model organs. Taking advantage of forward and reverse genetic approaches, we identified factors involved in the specification, differentiation, and patterning of neurons (*Trends in Neurosciences* 2000; *Nature Genetics* 2002). Among forward genetic strategies, we use morphological, immunohistochemical, and behavioral mutagenesis screens. In parallel, by conducting a large-scale *in situ* hybridization screen for cell-class restricted expression patterns in the retina, we identified an independent set of cell-fate regulators. These are currently studied using reverse genetic techniques such as gene knockdown. Sequencing of the zebrafish genome is greatly increasing the efficiency of both forward and reverse approaches. State-of-the-art facilities are available to continue these projects. Send curriculum vitae, reprints, and names of three references to: **Dr. Jarema Malicki**, Harvard Medical School/MEEI R513, 243 Charles Street, Boston, MA 02114. Visit us at [website: http://www.howelaboratory.harvard.edu/malicki.htm](http://www.howelaboratory.harvard.edu/malicki.htm). *Equal Opportunity Employer.*

NIH-funded **POSTDOCTORAL POSITION** in immunology available January 2003 at the University of Rochester. Our laboratory studies the mechanisms of maintenance of human B cell tolerance and their disruption in autoimmune diseases. The research involved will utilize both molecular and cellular approaches as well as transgenic animals. Interested candidates should send their curriculum vitae and the names of three references to: **Iñaki Sanz, M.D.**, Chief, Clinical Immunology and Rheumatology Unit, University of Rochester Medical Center, 601 Elmwood Avenue, Rochester, NY 14642. E-mail: ignacio_sanz@urmc.rochester.edu. *Affirmative Action/Equal Opportunity Employer.*

COURSE

SHORT COURSE ON TIME-RESOLVED FLUORESCENCE SPECTROSCOPY. The Center for Fluorescence Spectroscopy, University of Maryland School of Medicine, is offering a Short Course on Principles and Applications of Time-Resolved Fluorescence Spectroscopy in Baltimore, March 24–28, 2003. The course will cover basic and advanced topics in fluorometry including time and frequency domain measurements and Förster resonance energy transfer. Advanced topics include chemical sensing, imaging, fiber optics, infrared fluorometry, two- and multiphoton excitation, instrumentation, confocal and multiphoton microscopy, protein fluorescence, DNA technology, high-throughput screening, metal-ligand probes, correlation spectroscopy, lanthanides, and immunoassays. Textbook, course materials, lunches, and refreshments will be provided. For further information, a schedule, and fees, please contact: **Ms. Mary Rosenfeld** or **Professor J.R. Lakowicz**, CFS, Department of Biochemistry and Molecular Biology, 725 West Lombard Street, Baltimore, MD 21201. Telephone: 410-706-8409; FAX: 410-706-8408; e-mail: cfs@cfs.umbi.umd.edu; website: <http://cfs.umbi.umd.edu>.

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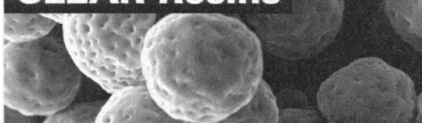


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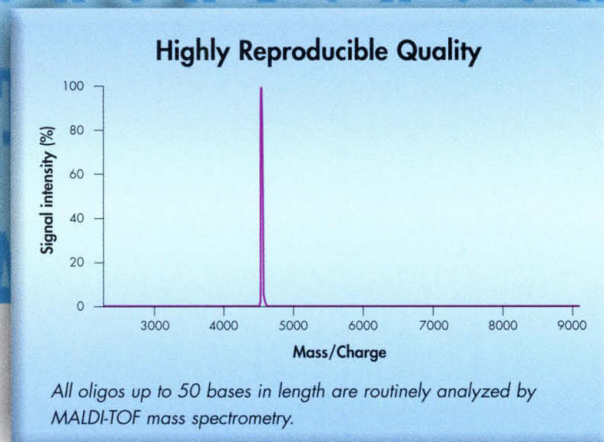
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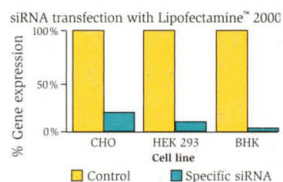


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