

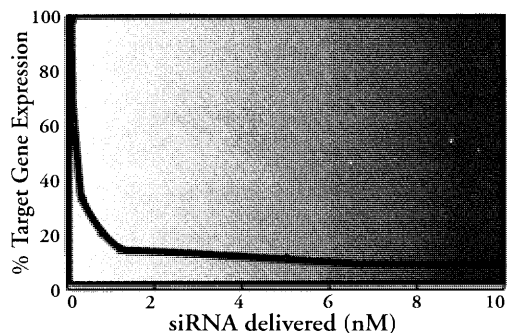
# Knock Out Target Gene Expression



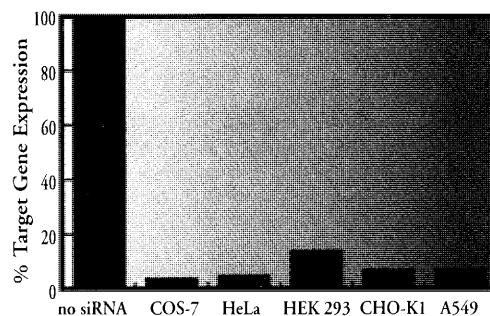
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# NEW PRODUCTS

## Mathematica version 4.1 Wolfram Research, Inc.

Champaign, IL  
\$1495 (academic, \$895)  
217-398-0700  
www.wolfram.com

Mathematica, from Wolfram Research, Inc., is a software product with applications in virtually all of the sciences. Its numerical functions are well known. The program can evaluate numeric calculations to thousands of digits and can perform symbolic analysis of algebraic or integral equations. Though used most frequently by mathematicians, physicists, and engineers, Mathematica also provides life scientists with powerful analytical tools. The current version of the program (4.1) runs on popular platforms (Macintosh Classic and OS X; Windows 98, 2000, NT, Me, and XP; and PowerPC Linux and AlphaLinux) and can be installed from one CD.

Mathematica provides thousands of functions including symbolic and numeric computation, two- and three-dimensional data visualization, and broad programming and data manipulation capabilities. In biology, Mathematica can be used to process and create mathematical models for data representing population growth data, species interactions, demography, disease dynamics, or even DNA sequences transformed to numbers. Mathematical modeling of metabolic or regulatory pathways is a complex problem readily tackled by the program. Mathematica users can create richly annotated written accounts of their work with the program's notebooks, a format that also permits researchers to distribute their results in Mathematica to others using a freely available program called MathReader.

A vast array of products, services, and resources are available for life scientists at Wolfram's Web site. These include application packages performing time series, wavelet analysis, and digital image processing, which have broad appeal for biological data analysis. Several example notebooks can also be downloaded. These include curve-fitting echocardiograms and mass spectrometry data, wavelet enhancement of MRI images, and population analysis using time series methods (for examples, see <http://library.wolfram.com/examples/#biomed>).

Mathematica's user interface has been upgraded in the new version, but even though it is more flexible than earlier versions, the program remains very finicky about adherence to the format of user-input commands. As a companion, the Mathematica Book (Cambridge University Press) extensively covers all aspects of the many Mathematica functions in 1470 pages. Educational materials and resources are also available to assist the integration of Mathematica within the classroom for a variety of disciplines, including biomathematics.

—William Seffens

Clark Atlanta University, 223 Brawley Drive, SW, Atlanta, GA 30314, USA. E-mail: [wseffens@cau.edu](mailto:wseffens@cau.edu).

## Pierce

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815-968-0747  
www.piercenet.com

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## PROTEIN RECOVERY KITS

The Seize Primary Immunoprecipitation Kits eliminate the need to determine if your antibody species or subclass binds well to Protein A or Protein G. The kit allows a researcher to directly couple a primary antibody to AminoLink Plus Activated Support and create a reusable, immunoprecipitation resin that prevents the antibody from co-eluting with the target

protein. The Seize Primary IP Kit and the Seize Primary Mammalian IP Kit are also useful for co-immunoprecipitations and small-scale purifications. The kits immobilize any species and Ig subclass to the beaded support, eliminating interference from antibody heavy and light chain bands on sodium dodecyl sulfate polyacrylamide gels and protein immunoblots.

## BD Biosciences

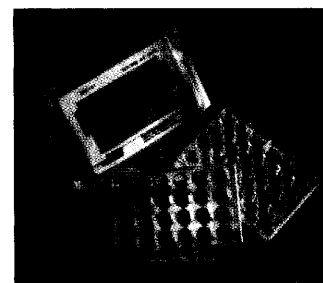
For more information  
800-343-2035

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

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The BD BioCoat Angiogenesis System for Endothelial Cell Invasion is an integrated cell culture insert system designed to automate endothelial cell invasion assays with real-time fluorescence and nondestructive sample detection. The system offers quantitative comparison of multiple samples without the need for plate washing or tedious manual cell scraping and counting. The system's patented light-tight FluoroBlok membrane (3-mm pore size) blocks the transmission of light from 490 to 700 nm. The membrane is uniformly coated with BD Matrigel Matrix, which serves as a reconstituted basement membrane in vitro. The matrix provides an appropriate protein structure that is a barrier to noninvasive cells but allows invasive endothelial cells to penetrate. Because the membrane blocks the fluorescence of labeled cells that have not invaded through the membrane, only those cells that appear on the underside of the membrane are quantitated by fluorescence, providing a signal that can be directly correlated to cell number.



## Whatman BioScience

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## DNA STABILIZATION

CloneSaver Cards capture and stabilize DNA in one easy step. Through the use of a patented solid-phase matrix, CloneSaver Cards capture and stabilize BAC and plasmid DNA for long-term, room-temperature storage. When bacterial clones, resuspended colonies, or glycerol stocks are applied to a CloneSaver Card, cells are lysed on contact and DNA is captured and stabilized. The captured DNA is directly available for downstream applications, such as bacterial transformation and polymerase chain reaction, and can be archived for later use. Samples applied to CloneSaver Cards become nonhazardous because all cells as well as viruses are lysed and proteins are denatured upon contact.

## Applied Precision

For more information  
425-557-1000

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## MICROARRAY SCANNER

The arrayWoRx(e) biochip reader is a microarray scanner that offers image interpretation with upstream analysis. The instrument can provide researchers with immediate access to information about a microarray's chemical history, thereby reducing errors and allowing for faster data interpreta-

CONTINUED ON PAGE 351

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tion. An enhanced software package enables scientists using the instrument to receive massive quantities of data from various heterogeneous instruments (such as liquid handling robots, microarraying robots, and microarray biochip readers) from which it has traditionally been difficult to capture data automatically. This data includes the relevant information about the slide's creation, including environmental conditions, clone information, gene information, and more. The software then plugs all this information into its analysis of the data gleaned from the slide. The instrument makes use of a white light source instead of a laser and provides researchers with experimental flexibility, useful with a wide variety of fluorescent probes and for up to four wavelengths on one chip.

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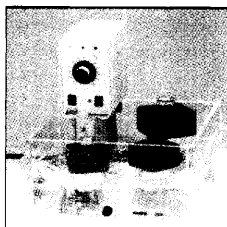
For more information  
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#### WEIGHTED RINGS

Holdflask Weighted Rings are designed to prevent flasks, volumetric, and graduated cylinders from floating in a water bath or tipping over while

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#### RNA AMPLIFICATION

The MessageAmp aRNA Kit selects and amplifies mRNA from a total RNA or poly(A) sample resulting in a 1000-fold amplification of the RNA target for array analysis. The kit is compatible with both biotin and Cy dye labeling.

#### Bio-Rad Laboratories

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#### IUPAC NAMING SOFTWARE

The KnowItAll Analytical System now includes International Union of Pure and Applied Chemistry (IUPAC) naming and drawing functionality. The new IUPAC NameIt and

IUPAC DrawIt software plug-ins facilitate the process of naming structures or creating structures based on IUPAC's systematic rules, which are accepted internationally as the standard for chemical nomenclature. The user simply enters a structure or a name and the software automatically generates the systematic IUPAC name or structure. Generating names and structures this way not only saves time, but also ensures accuracy and standardization of both communication and data mining within the lab.

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#### NONDESTRUCTIVE CYTOTOXICITY ASSAY

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CONTINUED ON PAGE 352

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The Pedant-Pro software was used to produce the PEDANT Genome Database. This database is freely available for the academic community from the Institute for Bioinformatics (formerly MIPS) at [www.pedant.gsf.de](http://www.pedant.gsf.de). (Commercial use of the database requires a license.)



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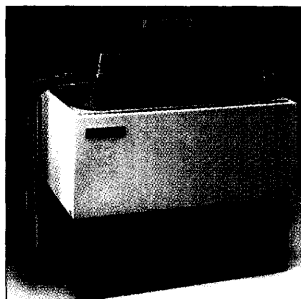
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### LITERATURE

*BIOTREND Immunochemicals Catalogue 2001-2002* includes more than 5000 monoclonal and polyclonal antibodies as well as various enzyme-linked immunosorbent assay, enzyme immunoassay, and radioimmunoassay kits. The products are listed in alphabetical order according to their antigen name and include references to their field of application. It also describes services such as peptide synthesis, antibody production, labeling, and assay development.

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*ResGen Clones Supplied as PCR Products or Glycerol Stocks* is a full-color, eight-page guide that outlines the diversity of the ResGen cDNA clone collection for spotting microarrays or expressing full-length genes for functional genomics studies. The guide describes sequence-verified clones that ensure results, pre-established clone sets or the custom arrayed option to meet any specifications, spot-ready DNA for spotting microarrays, and the full-length gene resource for protein expression.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS of any products or materials mentioned is not implied. Additional information may be obtained from the manufacturer or supplier by visiting [www.scienceproductlink.org](http://www.scienceproductlink.org) on the Web, where you can request that the information be sent to you by e-mail, fax, mail, or telephone.

## II ONCE INTERNATIONAL AID AWARDS FOR RESEARCH AND DEVELOPMENT INTO TECHNOLOGIES FOR THE BLIND

### DEADLINE FOR PRESENTATION OF PROJECTS EXTENDED

**Projects can now be presented until March 31<sup>st</sup>, 2002**

The deadline for presentation of projects to the II ONCE International Aid Awards for Research and Development into Technologies for the Blind, organised by the Spanish National Organisation of the Blind (O.N.C.E.), has been extended until the 31st of March, 2002.

The II ONCE International Research and Development Awards are aimed at relevant research and projects in the fields of information technology, telecommunications, biotechnology and engineering. The objective of the awards is to ensure that these projects are carried through to a successful conclusion. Projects should involve some type of innovation or progress in the aforementioned fields and should include social adaptation and normalisation for the blind and visually impaired.

Participants may be individuals or legally registered organisations (companies or institutions), and they may present their projects either individually or collectively. Entry is open to all sectors of research, both public and private, and entries will be accepted from researchers and working groups which are already established or which may be established in the abovementioned fields of investigation.

Therefore, entries will also be accepted from research projects which are already underway, regardless of the stage of development they may be in, on condition that the jury considers the project to have a practical future application.

There are no rules concerning the structure and length of the documents presented, although the following documents must be presented:

- Written document addressed to the Secretariat of the II ONCE International Aid Awards for Research and Development into Technologies for the Blind, to present the entry officially.
- Written report explaining the project, study, breakthrough, innovation or advance which is being entered. Special emphasis should be placed on the implications of the entry in terms of innovation.
- Written explanation of the benefits to the blind and visually impaired which the practical application of the project would imply.
- Declaration from the participant or participants that they are the authors of the work presented, that the work presented is original, and that the work began before the date of call for entries.

Entries should be presented in either English or Spanish, and if the project is being entered by members of a research centre it must be authorised by the competent authorities.

The authors of the winning entries shall be expected to assign intellectual property rights, although given the varying circumstances and characteristics of the projects entered the terms of such assignment shall be agreed between the ONCE and the authors of each of the winning entries.

The economic aid packages for these awards are as follows:

First prize – 30 million pesetas (180,303 Euros).

Two special prizes – 10 million pesetas (60,101 Euros) each.

These should be used principally to ensure that the research is successfully completed according to agreements reached in each case.

Projects should be sent before the 31st of March 2002 to:



CONSEJO GENERAL DE LA ONCE

Secretaría de los Premios Internacionales ONCE de I+D en Nuevas Tecnologías para Ciegos  
C/José Ortega y Gasset, 18 • 28006 Madrid (Spain)

Tlf: (34) 91 436 53 00 / (34) 91 577 37 56 • E-mail: [jiv@once.es](mailto:jiv@once.es) and [srf@once.es](mailto:srf@once.es)

If you require any further information please contact Jorge Iniguez, General Secretary of the ONCE General Council, or Samuel R. Fontecha, Adviser to the ONCE General Council. Alternatively, please visit the following web site: [www.once.es/R+D](http://www.once.es/R+D)

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### POSITIONS OPEN

#### DEAN OGDEN COLLEGE OF SCIENCE AND ENGINEERING Western Kentucky University

Western Kentucky University seeks a dynamic, intellectual leader to serve as Dean of Ogden College of Science and Engineering. The Dean is the chief academic and administrative officer of the College and reports to the Provost. The ideal candidate will be a visionary, creative leader who will guide the continued growth of the College's initiatives in teaching, research, and service.

Western Kentucky University aspires to be among the best comprehensive public institutions in the nation and is deeply committed to diversity throughout the campus community. The University has 16,579 students on the main campus and at three extended campus locations. Ogden College consists of 153 full-time faculty; 2,700 undergraduates; and 175 graduate students. College departments include Agriculture, Architectural and Manufacturing Sciences, Biology, Chemistry, Computer Science, Engineering, Geography and Geology, Mathematics, and Physics and Astronomy. The College houses the Applied Research and Technology Program, a Commonwealth Program of Distinction, with 12 interdisciplinary research centers. Ogden College is currently engaged in extensive renovation and construction of its classroom and laboratory facilities.

Basic qualifications: (1) an earned Doctorate in a College discipline and a documented record of excellence in teaching, research, and service that merits appointment as a **FULL PROFESSOR** with tenure; (2) evidence of effective administrative experience, leadership, and resource development; (3) demonstrated effective interpersonal and communication skills that promote a collegial environment, effective problem solving, and consensus building; (4) demonstrated commitment to recruitment and retention of students, learning outcomes, and faculty development.

The successful candidate must be able to work with external constituencies to promote the College, enhance economic development, and support K-12 education.

The committee will begin reviewing applications on February 1, 2002, and will continue until the position is filled. Starting date is July 1, 2002. For additional information, please visit [website: http://www.wku.edu/ogdendean](http://www.wku.edu/ogdendean). The committee invites nominations as well as applications. Applicants should submit letter of application; statement of leadership philosophy; curriculum vitae; and the names, addresses, e-mail addresses, and telephone numbers of at least five references to:

David Lee, Chair  
Ogden Dean Search Committee  
200 Fine Arts Center  
Western Kentucky University  
1 Big Red Way  
Bowling Green, KY 42101-3576  
E-mail: [david.lee@wku.edu](mailto:david.lee@wku.edu)

*Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

#### BIOCHEMISTRY/ MOLECULAR GENETICS Hamilton College

The Biology Department at Hamilton College invites applications for a two-year position at the **VISITING ASSISTANT PROFESSOR** level. Teaching duties will involve courses in biochemistry and genetics at both the introductory and advanced level. Opportunities for conducting research are available. Letters of application; curriculum vitae; statements of teaching philosophy and research interests; and three letters of reference should be sent by February 15, 2002, to: Jinnie M. Garrett, Chair, Biology Department, Hamilton College, 198 College Hill Road, Clinton, NY 13323.

*Hamilton is an Affirmative Action/Equal Opportunity Employer and is committed to diversity in all areas of the campus community.*

### POSITIONS OPEN

#### DIRECTOR OF ADIRONDACK WATERSHED INSTITUTE FACULTY MEMBER, NATURAL RESOURCES

Paul Smith's College, The College of the Adirondacks, is conducting a search for the Director of the Adirondack Watershed Institute (AWI), a research, education, and service unit of the College. The Director also will have an appointment as a faculty member in the Division of Natural Resources, Sciences, and Liberal Arts. The AWI is the result of a merger within the college of the Adirondack Aquatic Institute, founded in 1992; the Adirondack Watershed Stewards, founded in 2000; and the newly funded Adirondack Outreach and Research Program. The AWI's primary mission is to understand, preserve, and protect the watersheds in and around the six million acre Adirondack Park through a combined effort in basic and applied research, education, and training. Further information about the AWI is available through the College's [website: http://www.paulsmiths.edu/aai/](http://www.paulsmiths.edu/aai/).

The successful candidate will be responsible for directing and promoting the activities of the Institute and in securing funding for support of the AWI programs. The Director will have primary responsibility for obtaining and negotiating grants and contracts for AWI activities, working with federal and state agencies whose jurisdiction includes the Adirondack Park, and in representing the Institute to the Adirondack communities and local governing bodies. This is a 12-month position; the Director will have some teaching responsibilities as a faculty member, preferably with experience in courses directly related to our degree program in fish and wildlife technology.

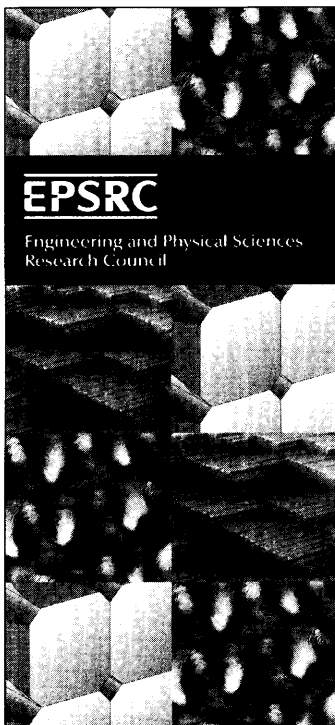
Requirements include a Ph.D. in a discipline relevant to watershed or fisheries science, evidence of fundable research, and teaching experience at the undergraduate level. Experience or ability to direct a peer group of Researchers/academics is a plus.

To apply, send curriculum vitae, statements on research accomplishments/goals and teaching philosophy, selected reprints, and contact information (including e-mail) for three references to: **Human Resources, Paul Smith's College, P.O. Box 265, Paul Smiths, NY 12970. FAX: 518-327-6161; e-mail: [hr@paulsmiths.edu](mailto:hr@paulsmiths.edu)**. Review of applications will begin in early February 2002. Anticipated start date is by July 1, 2002.

*Equal Opportunity Employer/Affirmative Action/Minorities/Females/Disabled/Veterans.*

#### CHAIR POSITION Department of Pharmaceutical Sciences Washington State University

The Department of Pharmaceutical Sciences invites applications from qualified candidates for a department chair position at the **ASSOCIATE** or **FULL PROFESSOR** level to begin on or about September 1, 2002. Candidates must have a Ph.D. in a biomedical discipline or M.D. and an active, independent research program. Current research strengths of the Department include cancer research and toxicology; therefore, preference will be given to established investigators with a strong track record in biomedical disciplines that complement these areas. Additionally, the successful candidate will have leadership capabilities and a commitment to sustaining and expanding the research and teaching environment at Washington State University. Demonstrated competence in the development and implementation of professional, graduate, and undergraduate curricula and an excellent record mentoring students are also desired. Screening of applicants will begin April 1, 2002, and continue until the position is filled. To apply, please send letter of interest and qualifications; curriculum vitae; statements of research interests and teaching philosophy; and arrange for three letters of reference to be sent to: Margaret E. Black, Ph.D., Search Committee Chair, Department of Pharmaceutical Sciences, College of Pharmacy, P.O. Box 646534, Washington State University, Pullman, WA 99164-6534. E-mail: [blackm@mail.wsu.edu](mailto:blackm@mail.wsu.edu) for additional information. *WSU is an Equal Opportunity/Affirmative Action Educator and Employer.*



## Director - Quantum Information Processing Interdisciplinary Research Collaboration

The Engineering and Physical Sciences Research Council (EPSRC) seeks to appoint a Director with the vision and skills to bring together a multidisciplinary team of researchers to address the research challenges in Quantum Information Processing (QIP).

The EPSRC plans to make a considerable strategic investment of £9 million in Quantum Information Processing that will be implemented over 5 years through an Interdisciplinary Research Collaboration (IRC). Key to the Collaboration's success will be a Director eager to implement a creative approach combined with a clear vision and able management skills.

This is a unique opportunity for a leading researcher with a deep understanding of QIP and a vision of its potential to shape and lead a potentially high-impact research programme. International contacts, knowledge of current activity in QIP and personal standing in the UK will all facilitate early effectiveness, while excellent influencing, negotiation and leadership skills will enable you to maintain consistently high standards throughout. You will also be asked to demonstrate a track record of bringing together collaborative activity and excellent programme management skills.

Bringing together a team of researchers from a number of UK universities, you will begin by liaising widely with a variety of relevant organisations to formulate appropriate research activities. It is envisaged you will have a personal research activity in QIP which would form part of the IRC. Once the Interdisciplinary Research Collaboration is established, you will direct and manage the collaboration over a five year period.

A full job specification is available from our website [www.epsrc.ac.uk/QIPDIR](http://www.epsrc.ac.uk/QIPDIR)

Informal discussions are welcomed. Please contact Lucy Brady, Physics Programme Manager on 01793 444208 or email [Lucy.brady@epsrc.ac.uk](mailto:Lucy.brady@epsrc.ac.uk)

To apply please send your CV, salary details and a covering letter to Nicola Gwinnett, Personnel Department, EPSRC, Polaris House, North Star Avenue, Swindon SN2 1ET by 15th February 2002. Applications will be assessed by a panel who will select candidates. Interviews will be held during March. It is intended that the appointment should take effect as soon as possible.

Information about EPSRC is available on our website [www.epsrc.ac.uk](http://www.epsrc.ac.uk)

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The Engineering and Physical Sciences Research Council (EPSRC) is one of the seven government-funded UK Research Councils. It allocates £450 million in government funding each year. EPSRC's mission is to support the highest quality research and related postgraduate training in engineering and the physical sciences. It also promotes public awareness of science, engineering and technology.



### Assistant or Associate Professors

The Department of Pharmacology at The University of Iowa (<http://www.medicine.uiowa.edu/pharmacology/>) invites applications for three tenure-track faculty positions. Faculty who have strengthened our presence in Neuroscience and Cancer Biology have been recently hired. We now seek to add faculty addressing important questions in the following research areas:

- structure, function and/or regulation of G protein coupled receptors and G proteins and their downstream signaling pathways.
- pharmacological or physiological genomics or proteomics.
- integrative pharmacology or toxicology.

Applicants using other research strategies relevant to pharmacology or toxicology will also receive full consideration by the search committee. Successful candidates will be expected to establish and maintain dynamic, externally supported research programs, to excel in teaching, and to actively contribute to strong departmental and interdisciplinary graduate programs.

Candidates with a Ph.D. and/or M.D., post-doctoral experience and an excellent record of research productivity and quality should submit applications before 30 April 2002. Curriculum vitae, summary of research accomplishments (with copies of key publications), description of future research plans, and the names/addresses of at least three references should be sent to:

**Chair, Search Committee**  
**Department of Pharmacology (BSB 2-471)**  
**The University of Iowa College of Medicine**  
**Iowa City, IA 52242-1109**

*The University of Iowa is an Affirmative Action / Equal Opportunity employer. Women and minorities are encouraged to apply.*



UNIVERSITY OF  
CALGARY

## Molecular and Cellular Biology of Cancer

*Creating the future of health.*

**The Cancer Biology Research Group (CBRG)** invites applications for a full-time academic position at the Assistant to Full Professor level from scientists with research interests in the broad areas of cellular signalling, metastasis, or angiogenesis. This position offers an excellent opportunity to develop a vigorous independent research program within a multidisciplinary research environment. While duties will include teaching and graduate student supervision, 75% of time will be protected for research.

Our research group consists of faculty with strengths in signal transduction, cell cycle control, DNA repair, chromatin modification, cellular aging, functional genomics, oncolytic viruses, and clinical and translational research. CBRG has extensive infrastructure support including mass spectrometry, microarray, hybridoma, imaging, FACS, and embryonic stem cell and transgenic facilities. See our Web site for more information at: [www.cancer.ucalgary.ca](http://www.cancer.ucalgary.ca)

Qualifications include a PhD or MD, post-doctoral experience and a strong record of creative research. Salary support and attractive start-up funds are available initially. Through successful application to the Alberta Heritage Foundation for Medical Research and/or the Canadian Institutes for Health Research, additional start-up funding and continuing salary support will be provided.

Please submit a curriculum vitae and a statement of research interest, and arrange for three letters of reference to be submitted directly by **February 15, 2002** to: **Dr. Chris Brown**, Faculty of Medicine, 3330 Hospital Dr. N.W., Calgary, Alberta T2N 4N1 Canada.

*In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary respects, appreciates and encourages diversity.*

[www.ucalgary.ca](http://www.ucalgary.ca)

# Innovative Technology. Exceptional Opportunity.

**Amgen**, the world's leading biotechnology company, is dedicated to improving patients' lives by offering new human therapeutics. Our first two products, EPOGEN® (Epoetin alfa) and NEUPOGEN® (Filgrastim), are among the most successful human therapeutics ever launched. We have multiple positions in our Pharmaceuticals Department.

## RESEARCH SCIENTIST I/II

This methodical individual will communicate, design, manage and interpret preclinical pharmacokinetic, toxicokinetic and pharmacodynamic studies for protein therapeutic candidates. You will contribute to study design and data interpretation, conduct modeling and collaborate on research and development teams. Ideal candidate will have a PhD and experience in PK and PD modeling. Knowledge of population PK principles is desirable.

## RESEARCH SCIENTIST III

As a member of Research Project Teams, Early Development Teams and Global Development Teams, you will be responsible and communicate relevant information regarding study budgets, study designs, data analysis, and data reporting. Requires an MD-PhD or PhD in Biopharmaceutical Sciences or Bioengineering, or the equivalent, and knowledge of product development and regulatory requirements. PK-PD modeling skills are preferred. A background in statistical training, programming and engineering or staff supervision is a strong plus. Requires a minimum of 4-6 years of relevant experience in academic or industrial drug metabolism laboratory.

## RESEARCH ASSOCIATE I/III

This self-directed professional will conduct *in vitro* and *in vivo* metabolism studies requiring standard skills of bioanalysis, metabolism, and pharmacokinetics. You will prepare biological samples and analyze nonlabeled and radiolabeled drugs and metabolites. Must have a BS or MS in Chemistry, Biology or Pharmaceutical Science and 2+ years of relevant experience in a drug metabolism laboratory. A background in LC-MS analysis, interpretation of mass spectra and immunochemical techniques is desired.

## RESEARCH ASSOCIATE II/III

You will conduct high throughput small molecule drug candidate LC-MS assays in support of preclinical pharmacokinetics, toxicokinetics, and drug metabolism studies in accordance with SOP compliance. Measuring of small molecule drug candidate concentrations in plasma and other biological matrices. Requires a BS or MS in Chemistry, Biochemistry or a related Pharmaceutical Science, and 2-8 years of technical industrial experience in bioanalytical support. Strong problem-solving, communication and PC skills are essential.

## RESEARCH ASSOCIATE II/III

Conducting high throughput (HT) small molecule drug candidate LC-MS assays, you will perform plasma and urine bioanalytical assay refinement, validation implementation, prepare assay protocols and data reports, and organize documents for regulatory presentation and submission. Must have a BS or MS in Chemistry, Biochemistry or Pharmaceutical Science and 2-8 years of technical industrial experience in pharmacokinetics bioanalytical support and/or HT LC-MS BA methods. Exposure to sample automation and GLP regulation is preferred.

For immediate consideration, forward your resume, including (Ad Code 843) to: [tevarts@amgen.com](mailto:tevarts@amgen.com); or by mail at: (Ad Code 843) Amgen Staffing, P.O. Box 2569, Thousand Oaks, CA 91319-2569. For additional information on Amgen, please visit our [www.amgen.com](http://www.amgen.com) website. EEO/AA Employer M/F/D/V.

The Amgen logo consists of the word "AMGEN" in a bold, sans-serif, uppercase font. A registered trademark symbol (®) is located at the top right of the letter "N".

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

**The Hebrew University of Jerusalem  
Faculty of Agricultural, Food and Environmental Quality Sciences  
Department of Animal Sciences**

**Faculty Position in Mammary Gland Physiology or Fish Biology**

The Department of Animal Sciences, at the Faculty of Agricultural, Food and Environmental Quality Sciences in Rehovot, Israel, invites applications for a single tenure track faculty position in either **mammary gland physiology**, or **fish biology**. The position is available at the Lecturer or Senior Lecturer level, depending on qualifications, and will begin on October 1, 2002. Candidates must possess a Ph.D. in a field related to those stated below; have post-doctoral experience and a record of research productivity. The successful applicant will be expected to provide leadership, and develop an independent, active, extramurally funded research program. Other duties include participation in the departmental teaching program (in Hebrew) for undergraduate and graduate studies, and to supervise graduate students. Important assets include good personal communication and collaborative research abilities.

Applicants for a position in **mammary gland physiology** should have a strong background in one or more of the following fields: developmental biology, cytokines and/or growth factors, reproductive endocrinology, or any other related field. The successful applicant will be expected to maintain active interactions with the cattle industry in Israel and to develop a research program that will focus on aspects related to the growth, differentiation, involution or immunology of the mammary gland in the ruminant species.

Applicants for a position in **fish biology** should have a strong background in fish biology, physiology and/or nutrition. The successful applicant will be expected to maintain active interactions with the fish industry in Israel and to develop a research program that will focus, on aspects related to fish physiology and nutrition, and that will be relevant to fish farming goals.

Please send the application material (detailed curriculum vitae, record of education, experience of research and teaching, qualifications, summary of research interests, updated list of publications, a brief description of a tentative research project compatible with requirements stated above) to the address listed below. Applicants should arrange to have three letters of recommendation to be sent on their behalf under separate cover to the same address. Applications will be reviewed promptly and are invited until the position is filled.

**Prof. Aharon Friedman (fridman@agri.huji.ac.il)**

**Head, Department of Animal Sciences**

**Faculty of Agricultural, Food and Environmental Quality Sciences**

**The Hebrew University of Jerusalem**

**P.O. Box 12**

**Rehovot, 76100**

**ISRAEL**

**Faculty Positions  
McGill University**

Applications are invited for two tenure track positions (effective summer 2002); successful applicants will normally be appointed at the assistant-professor level but exceptional candidates may be considered at a higher level (including Canada Research Chairs or NSERC University Faculty awards). Candidates must have a Ph.D. in a relevant field and will be expected to teach and develop a strong research program. The positions are in the areas of:

**Plant Science**

Plant pathology, disease diagnostic and management, plant-microbe interactions, plant-environment interactions, plant molecular biology and genetics, plant physiology or plant population dynamics.

**Bioinformatics**

Gene and gene function identification, computational genomics or proteomics, reverse genetics of metabolic pathways, genome structure and organization, algorithm development for data mining, metabolic engineering, advanced computational approaches to environmental, or phylogenetic or biodiversity data analysis.

The deadline for applications is March 15, 2002.

Send applications to: **Department of Plant Science, McGill University, 2111 Lakeshore, Ste-Anne-de-Bellevue, Quebec, Canada H9X 3V9**. For more information, consult <http://www.mcgill.ca/plant/positions/>.

*In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. However, all qualified applicants are encouraged to apply. McGill is committed to equity in employment.*

**R · I · T**

**Dean of the College of Science  
Rochester Institute of Technology**

Rochester Institute of Technology is searching for an exceptional individual to become the next Dean of the College of Science. RIT is a private technological university located on a 1300-acre campus in suburban Rochester, New York. The Institute enrolls approximately 15,000 full and part-time undergraduate and graduate students preparing for technical and professional careers.

The College of Science has assumed a leading role in the enhancement of the Institute's traditionally strong undergraduate education and expanding graduate programs. Existing graduate programs in the College will be substantially enhanced and expanded, with additional MS and Ph.D. programs that emphasize interdisciplinary collaboration and applied research. The College comprises the departments of Allied Health Sciences, Biological Sciences, Chemistry, Mathematics and Statistics, Physics, and the Center for Imaging Science. The annual budget is approximately \$15 million. The College of Science has approximately 185 faculty/staff and nearly 1000 students enrolled in 32 degree programs.

The Dean is the chief academic, fiscal, and administrative officer, and has a key role in securing funds for the College's initiatives. We are seeking a dynamic individual, possessing strong interpersonal communication skills along with significant administrative experience, to lead in shaping the future of the College of Science. The successful candidate will have, at a minimum, a Ph.D. in an appropriate discipline for the College of Science, and a record of achievement in scholarship, education, and interaction with government and industry. A demonstrated record of successful attainment of major funding, through the competitive grants process, is essential.

RIT is an equal opportunity, affirmative action employer and invites and encourages applications from women and minorities. Additional information may be obtained at <http://www.science.rit.edu>. Please respond to: **The Search Committee for the Dean of the College of Science, Office of the Provost, Rochester Institute of Technology, 12 Lomb Memorial Drive, Rochester, NY 14623-5604**. Review of applications will begin on February 18, 2002.

**University of Wisconsin - Madison  
McArdle Laboratory for Cancer Research  
and Institute for Molecular Virology**

**Faculty Position in Virology and Cancer**

The Institute for Molecular Virology and the McArdle Laboratory for Cancer Research are seeking outstanding candidates for a joint, tenure-track, **Associate or Assistant Professor position in the area of cancer virology**. Applicants should be interested in using basic research in virology to understand processes governing the molecular basis, prevention and/or therapy of cancer. The position provides access to a variety of shared facilities, including full resources for molecular and cell biology, a BL-3 facility for work with pathogenic viruses, and superb animal facilities for mouse genetics, gene-knockouts and transgenic animals. The successful applicant will also participate in excellent, well-funded graduate and post-graduate training programs.

Applicants should submit a curriculum vitae with publication list, a 2-3 page summary of research accomplishments and future research plans, and have 3 qualified individuals send letters of evaluation to: Dr. Paul Ahlquist, Search Committee Chair, Institute for Molecular Virology, University of Wisconsin Madison, 1525 Linden Drive, Madison, WI 53706-1596; Tel: (608) 263-5916. Applications received by March 1, 2002 will be assured full consideration.

*The University of Wisconsin is an equal opportunity/affirmative action employer. Minority and women candidates and all other qualified persons are encouraged to apply. Under Wisconsin statutes, names, positions and addresses of applicants and nominees may be subject to release upon request*



Public Service Commission  
of Canada

Commission de la fonction publique  
du Canada

## Virology Research Scientists

Health Canada

WINNIPEG, MANITOBA, CANADA

The National Laboratory for Diagnostic Virology is part of Health Canada's National Microbiology Laboratory (NML) in Winnipeg, Manitoba. The NML, opened in 1999, is a world-class research centre, housing over 100 research microbiologists and technical staff, which develops and uses cutting-edge laboratory technologies to define emerging infectious diseases, and enhances surveillance, prevention, investigation and control of infectious diseases of national and international public health. Our close proximity to the University of Manitoba, Health Sciences Centre, allows for excellent opportunities for cross appointments and collaborative links.

In one of these roles, located within the Viral Hepatitis and Bloodborne Pathogens group, you will develop an independent research program on the structure and immunity of viral pathogens, including but not limited to Hepatitis B and C viruses. The research program should complement existing activities within the group, including vaccine vectors, molecular biology of virus replication, virus structure and morphogenesis, cell signal transduction alteration and the development of viral diagnostic reagents. In the second role, in the Respiratory Viruses group, headed by Dr. Yan Li, you will conduct original research related to viral pathogens, immunology, and molecular biology of influenza, respiratory syncytial virus, or other respiratory viruses, as well as in reverse genetics. Your annual salary will range between \$39,495 and \$99,114.

Both of these positions call for an acceptable doctoral degree from a recognized university, with a specialization in Virology, or a specialization in Molecular Biology or Immunology. You must also have 2 years of post-doctoral research experience in virology or structural biology.

Proficiency in English is essential.

**Note:** A secret security clearance and a pre-employment medical clearance will be conducted prior to appointment. Candidates with foreign educational credentials are required to provide proof of Canadian equivalency (please consult the Canadian Information Centre for International Credentials at <http://www.cicic.ca> for further information). This competitive process may be used to staff similar positions.

If you are interested in one of these permanent opportunities, please apply on-line or forward your resume and/or a completed PSC application form 3391 (available from the Public Service Commission of Canada), clearly indicating how you meet the above requirements, stating your citizenship and **quoting reference number SHC16035FF65**, by **February 28, 2002**, to: **Public Service Commission of Canada, 344 Edmonton Street, Room 100, Winnipeg, Manitoba, Canada R3B 2L4. Fax: 204-983-8188. Inquiries may be made to Dr. Tim Booth, Chief of Diagnostic Virology, at 204-789-6058. Please visit our Web site: <http://www.hc-sc.gc.ca/hpb/lcdc/fedlab/>**

As an equal opportunity employer, Health Canada is committed to achieving a skilled, diversified workforce that reflects the diversity of the Canadian population. We encourage members of the following designated groups to apply and to self-identify: women (especially in non-traditional occupational groups), members of a visible minority group, Aboriginal people and persons with a disability.

We thank all candidates who apply; only those selected for further consideration will be contacted. Preference will be given to Canadian citizens.

## Chercheuses et chercheurs en virologie

Santé Canada

WINNIPEG (MANITOBA)

Le Laboratoire national de virologie diagnostique fait partie du Laboratoire national de microbiologie (LNM) de Santé Canada à Winnipeg, au Manitoba. Le LNM, qui a ouvert ses portes en 1999, est un laboratoire de recherche de classe mondiale qui regroupe plus de 100 chercheurs en microbiologie et employés techniques. On y met au point et utilise des techniques de laboratoire de pointe pour définir les maladies infectieuses émergentes et améliorer les activités de surveillance, de prévention, d'enquête et de lutte contre les maladies infectieuses qui présentent un intérêt du point de vue la santé publique à l'échelle nationale et internationale. Le fait que le LNM se trouve à proximité du Centre des sciences de la santé de l'Université du Manitoba offre d'excellentes possibilités de nomination conjointe et de travail coopératif. À l'un de ces postes au sein du groupe de l'hépatite virale et des pathogènes à diffusion hémotogène, vous élaborerez un programme de recherche indépendant sur la structure et l'immunité des agents pathogènes viraux, y compris mais non de façon limitative, les virus de l'hépatite B et C. Le programme de recherche devrait compléter des activités déjà menées au sein du groupe, notamment les vecteurs constitués de vaccins, la biologie moléculaire de la reproduction de virus, la structure des virus et la morphogénèse, la modification de la transduction des signaux cellulaires et le développement de réactifs pour diagnostic virologique. Dans l'autre poste au sein du groupe des virus respiratoires dirigé par le Dr Yan Li, vous mènerez de la recherche originale relative aux agents pathogènes viraux, à l'immunologie et à la biologie moléculaire de la grippe, au virus respiratoire syncytial ou d'autres virus respiratoires de même qu'à la génétique inverse. Vous toucherez un salaire variant entre 39 495 \$ et 99 114 \$.

Pour accéder à l'un de ces deux postes, vous devez détenir un doctorat acceptable d'une université reconnue avec une spécialisation en virologie, en biologie moléculaire ou en immunologie. Il vous faut également deux années d'expérience en recherche postdoctorale en virologie ou en biologie structurale.

La maîtrise de l'anglais est essentielle.

**Note :** Vous devrez vous soumettre à une vérification de sécurité de niveau secret de même qu'à un examen médical préalable à l'emploi. Les personnes qui ont obtenu leurs diplômes à l'étranger doivent fournir une preuve d'équivalence canadienne. Veuillez consulter le Centre d'information canadien sur les diplômes internationaux à l'adresse [www.cicic.ca](http://www.cicic.ca). Ce concours pourrait servir à combler des postes similaires.

Si l'un de ces postes permanents vous intéresse, veuillez postuler en ligne ou expédier votre curriculum vitae et/ou le formulaire de demande d'emploi 3391 de la CFP (que vous pouvez obtenir à la Commission de la fonction publique du Canada) **d'ici le 28 février 2002**, en démontrant clairement la façon dont vous répondez aux critères susmentionnés et en indiquant votre citoyenneté ainsi que le numéro de référence **SHC16035FF65**, à la **Commission de la fonction publique du Canada, 344, rue Edmonton, bureau 100, Winnipeg (Manitoba) R3B 2L4. Télécopieur : (204) 983-8188. Veuillez adresser vos demandes de renseignements au Dr Tim Booth, chef de la Virologie diagnostique, au (204) 789-6058. Vous pouvez visiter notre site Web à l'adresse <http://www.hc-sc.gc.ca/hpb/lcdc/fedlab/>**

À titre d'employeur favorisant les chances égales d'emploi, Santé Canada s'engage à se doter d'un effectif compétent et diversifié qui reflète la pluralité de la population canadienne. Nous encourageons les membres des groupes désignés suivants non seulement à poser leur candidature, mais à se reconnaître comme tel : les femmes (en particulier pour les postes traditionnellement masculins), les minorités visibles, les Autochtones et les personnes handicapées.

Nous remercions tous ceux et celles qui soumettent leur candidature; nous ne communiquerons qu'avec les personnes choisies pour la prochaine étape. La préférence sera accordée aux citoyennes et aux citoyens canadiens.

<http://>

jobs.gc.ca

Canada

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emplois.gc.ca

# RESEARCH SCIENTIST / FACULTY POSITIONS IN FUNCTIONAL GENOMICS

## The Maine Biomedical Research Infrastructure Network

The Maine Biomedical Research Infrastructure Network (BRIN) is a partnership between Mount Desert Island Biological Laboratory, The Jackson Laboratory, University of Maine, Bates College, Colby College, and College of the Atlantic supported by NCRR, NIH. The goal is to enhance biomedical research training, capacity and competitiveness of faculty and students in Maine. Five research scientist/faculty positions at the Assistant Professor level are available in comparative functional genomics (including molecular biology, bioinformatics and toxicology). Appointments are for a minimum of three years with 75% protected time for laboratory research. Teaching responsibilities vary with the institution. Ph.D. and postdoctoral experience are required. The successful candidate is expected to develop and maintain an NIH funded research program.

Send cover letter, vitae, research plans, and names and addresses of three references to the contact person listed at the institution of your choice, and a copy of your application to Dr. Patricia Hand, BRIN Program Director, MDI Biological Laboratory, PO Box 35, Old Bar Harbor Rd, Salisbury Cove, ME 04672. If you apply for more than one position indicate this on your application. Women and minorities are encouraged to apply. Review of applications will begin January 25, 2002 and continue until the positions are filled. Institutions are EO/AA employers. [www.brinme.net/careers.shtml](http://www.brinme.net/careers.shtml)



**Mount Desert Island Biological Laboratory** is a 103-year-old independent research institution with world class seasonal research and educational programs and an expanding year-round program. We seek an individual with expertise and interest in developing a research program in toxicology/toxicogenomics or cell biology/physiology emphasizing comparative functional genomics and marine model systems. This individual will assist in training students from partner BRIN institutions at MDIBL. For more information see careers at [www.mdibl.org](http://www.mdibl.org). Contact: Dr. John Forrest, Director, MDIBL, Box 35, Salisbury Cove, ME 04672. [phand@mdibl.org](mailto:phand@mdibl.org).



**College of the Atlantic**, four miles from MDIBL, offers the B.A. and M.Phil. in Human Ecology, is accredited and emphasizes interdisciplinary studies of relationships between people and natural and social environments. Applications are invited for a joint appointment as research scientist (MDIBL) and biology faculty (COA). This individual will develop a research program in comparative functional genomics emphasizing toxicology/toxicogenomics or cell biology/physiology and marine model systems. This individual will teach an undergraduate course in molecular biology/marine physiology. For more information see [www.mdibl.org](http://www.mdibl.org) and [www.coa.edu/brin](http://www.coa.edu/brin). Contact: Dr. J. Forrest, MDIBL, Box 35, Salisbury Cove, ME 04672. [phand@mdibl.org](mailto:phand@mdibl.org)



**The Jackson Laboratory**, an independent, nonprofit mammalian genetics research and training institute, and major resource for the research community, is recruiting junior faculty in bioinformatics and computational biology. The Laboratory's 34 faculty conduct basic research in an environment that fosters interactions between wet laboratory and computational scientists. Genomic databases maintained here are world resources for mouse genetic and phenotypic data. The Laboratory also has superb scientific services and extensive grants management support. Apply to: Director's Office, The Jackson Laboratory, 600 Main St, Bar Harbor, ME 04609 ([rsp@jax.org](mailto:rsp@jax.org)). Also see [www.jax.org](http://www.jax.org).



**The University of Maine** Department of Biochemistry, Microbiology and Molecular Biology ([www.umaine.edu/bmmb](http://www.umaine.edu/bmmb)) seeks applicants for a tenure-track, academic year faculty position in Molecular/Environmental Toxicology. This individual will apply genomics approaches to investigate responses of small animal model systems, e.g. mice or zebrafish, to environmental toxicants that may affect human health. This individual will team teach a graduate-level toxicology course and a multi-institutional genomics course. Contact: Dr. Rebecca Van Beneden, Chair, Search Committee, 5735 Hitchner Hall, University of Maine, Orono, ME 04469-5735. For further information see [www.umaine.edu/hr/jobs/default.htm](http://www.umaine.edu/hr/jobs/default.htm).

**Bates College** is a four-year undergraduate college of the liberal arts and sciences where original research is a valued form of student learning. We seek a learning associate: a doctoral level position for a person doing laboratory or field-based research in functional genomics. In addition to research, the person will teach one course per year and mentor undergraduate student research projects. Contact: Genomics Search Committee R2310, c/o Academic Services, 2 Andrews Road, 7 Lane Hall, Bates College, Lewiston, ME 04240. Further information available at [www.bates.edu](http://www.bates.edu).

### Associate Vice Chancellor for Research

#### The University of North Carolina at Chapel Hill Office of the Vice Chancellor for Research and Graduate Studies

The University of North Carolina at Chapel Hill seeks a leader to coordinate and expand university relationships with federal funding agencies, to strengthen the University's contribution to national advisory panels and policy boards, and to support the University's federal initiatives. The Associate Vice Chancellor will report to the Vice Chancellor for Research and Graduate Studies and, in addition, will work with the Associate Vice Chancellor for Government Relations and the Office of the President of the UNC system in interactions with federal legislators. The successful candidate will demonstrate a broad, substantive understanding of university research and the federal funding environment, and will exhibit excellent written and oral communication skills. Master's degree required, PhD preferred.

Interested candidates should submit a current curriculum vitae, a letter of interest, and the names of four references to:

**Neil Caudle**  
Chair, AVCR Search Committee  
Office of the Vice Chancellor for Research  
and Graduate Studies  
University of North Carolina at Chapel Hill  
CB 4000, 312 South Building  
Chapel Hill, NC 27599-4000  
Email submissions may be made to:  
[neil\\_caudle@unc.edu](mailto:neil_caudle@unc.edu)

Consideration of candidates will begin immediately, and will continue until the search has been successfully concluded.

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



## UNIVERSITY OF BERGEN

Faculty of Mathematics and Natural Sciences

### Four Professorial Vacancies

**in Aquaculture, Fish Health, Marine Biodiversity,  
and Molecular Biology (Functional Genomics)**

The University of Bergen, Faculty of Mathematics and Natural Sciences, focuses marine research and bioinformatics as two main research areas. The University has a strong culture of collaborations with locally situated research institutions, such as the Institute of Nutrition of the Directorate of Fisheries, the Institute of Marine Research, and the Sars International Centre of Molecular Marine Biology, as well as with research institutions abroad.

The University wants to strengthen the research in Aquaculture, Fish Health, Marine Biodiversity, and Molecular Biology (Functional Genomics) by recruiting four internationally experienced scientists, who will be expected to take a lead in the development of these areas.

Adequate start-up financing will follow the positions. Nevertheless, the successful candidate should have experience of grant raising and will be expected to establish externally funded research activities.

Salary in accordance with currently agreed salary scale.

Complete advertisements can be found at: <http://www.uib.no/stilling>

Informal enquiries may be made to: Vice-Dean of the Faculty of Mathematics and Natural Sciences, Professor Dag L. Aksnes, tel. (+47) 55 58 44 78, email [dag.aksnes@ifm.uib.no](mailto:dag.aksnes@ifm.uib.no).

**Closing date: January 31, 2002.**

# The Face of Pfizer

**At Pfizer**, you'll always be more than just another face. Because we believe that meeting our goal of saving, extending, and improving lives depends on the unique contribution of each of our employees. Whatever your specialty, your skills, knowledge and entrepreneurial spirit will be critical to building our success. So be more than just another face. Join the world's largest pharmaceutical research enterprise, and see the difference one person can make.

## **Postdoctoral Fellow (Ann Arbor, Michigan)**

As a member of a multidisciplinary team, you will work within the Thrombosis section of the Department of Cardiovascular Pharmacology to study the mechanisms involved in the pathogenesis of atherothrombotic diseases. Potential areas of study include coagulation, platelets, fibrinolysis, and the vessel wall. This position requires a PhD in Pharmacology, Physiology, Biochemistry or a related area, and expertise in the biochemical/pharmacological aspects of thrombosis and hemostasis, including in vitro and/or in vivo evaluation of coagulation, platelets and the fibrinolytic system. Req. #18Dec0109242

## **PhD Research Scientist, Transporters in Drug Disposition (Groton, Connecticut)**

In this role, you will supervise the characterization and application of molecular and biochemical approaches to drug transporters research. Responsibilities will include performing the cloning and expression of human and animal transporters involved in drug disposition; collaborating in the creation of transgenic/knockout models; and acquiring and developing new drug transporter technologies. Overseeing the correct application and interpretation of in vitro transporter assay techniques and facilitating the education of departmental personnel will be a key function of this position. You must have a PhD (or equivalent degree) in Chemistry, Biochemistry, Pharmacology, Pharmaceutical Sciences or a related biological science. Relevant postdoctoral experience in the genetic regulation, expression and characterization of drug transporters is highly desirable, as is familiarity with the development and application of molecular and pharmacophore models of drug transporters. Req. #09Jul0106057

## **Associate/Sr. Associate Scientist, Biochemistry (La Jolla, California)**

We have an immediate opening for a BS/MS-level Biochemist. Responsibilities include conducting enzyme assays, analytical protein purification and detailed characterization of enzymes. In addition to a BS/MS in Biochemistry or Chemistry, you must have 2+ years of laboratory or industrial experience. Also essential is a strong background in chemistry, math, computer and graphing programs, enzyme kinetics and protein purification/characterization. Senior applicants and candidates with experience in modern liquid handling or assay automation equipment who wish to diversify their biochemistry laboratory experience are encouraged to apply. Req. #01-0566-5V135SM

Pfizer offers an exceptional work environment complete with competitive salaries, excellent benefits and training opportunities designed to develop your professional talents. We encourage all applicants to apply by emailing your resume, indicating the appropriate Req. # in the subject field, to [SCI@pfizerresumes.com](mailto:SCI@pfizerresumes.com). If necessary, you may also mail your resume, indicating Req. #, to Pfizer Resume Processing Center, 630 Boston Road M-104, Billerica, MA 01821, Attn: Softshoe Resumes. An equal opportunity employer, Pfizer offers a workplace rich with diversity and potential.

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Global Research & Development

# DIRECTOR OF RESEARCH

## Naval Research Laboratory



ES 5 or 6, \$133,700\* per annum (includes locality pay)  
 \*Rate limited to that rate for Level III of the Executive Schedule

**Become the leader of an elite research and development community involved in basic and applied scientific research and advanced technological development for tomorrow's Navy and for the Nation.**

- Provides executive direction and technical leadership to the scientific and support divisions of NRL, which as the Navy and Marine Corps Corporate Laboratory, conducts a broadly based multi-disciplinary program of scientific research and advanced technological development directed toward new and improved material, equipment, techniques, systems, and operational procedures.
- Directs the planning of a long-range research program and formulates operating policies for the Laboratory.
- Represents NRL and the Commanding Officer in contacts and consultations with other Government organizations and with industrial and university laboratories.
- Applicants should be recognized as national/international authorities and should have planned and executed difficult programs of national significance that show outstanding attainments in their field of research.
- Visit NRL's Executive Search website at <http://www.jobs.nrl.navy.mil/> for application procedures.
- Receipt by **28 February 2002** is required.
- For further information contact Kathy Weaver, Human Resources Office, NRL at [Kweaver@HRO1.nrl.navy.mil](mailto:Kweaver@HRO1.nrl.navy.mil) or (202) 404-8305.

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**Dean of the College of Graduate Studies and  
 Vice Dean for Research,  
 Jefferson Medical College  
 Thomas Jefferson University  
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Thomas Jefferson University seeks a strong and dynamic intellectual leader to be the Dean of the College of Graduate Studies and Vice Dean for Research for Jefferson Medical College. The Dean serves as the chief academic and administrative officer of the College of Graduate Studies reporting to the President of Thomas Jefferson University, and as Vice Dean for Research reports to and works closely with the Dean of Jefferson Medical College to develop and successfully implement the school's strategic plan for research. One of the first medical centers in the nation, Thomas Jefferson University encompasses three academic divisions: the College of Graduate Studies, Jefferson Medical College, and the College of Health Professions. During the last five years, research activities at the University have dramatically increased at a rate of nearly 20% per year and the University now ranks in the top third for NIH funding. The College of Graduate Studies offers programs leading to the Master of Science and Doctor of Philosophy degrees for approximately 600 students in a number of biomedical and health-related fields. The Dean will be responsible for providing leadership in strengthening and expanding the College's academic programs and collaborative research and training activities. Additionally, as Vice Dean for Research, this individual will develop and be accountable for the Medical College's research budget and will manage the Medical College's ongoing basic and clinical research growth and activities. The ideal candidate will be an experienced academic leader who can oversee the growth and success of the College of Graduate Studies' initiatives in teaching and research as well as provide strong and dynamic leadership for the research activities of the Medical College. Candidates should have a combined M.D./Ph.D. or Ph.D. degree in a relevant field; a record of distinguished scholarship, teaching, and research; a collegial, consultative management style; and an excitement for the development of interdisciplinary research and scholarship combined with strong leadership and management skills. Please send nominations or letters of interest with curriculum vitae to: **Richard von Rueden, M.D. or Jennifer G. Bauer, C/O Witt/Kieffer, 4550 Montgomery Avenue, Suite 614N, Bethesda, Maryland 20814. E-mail: [jennifer@wittkieffer.com](mailto:jennifer@wittkieffer.com) <mailto:Rickvr@wittkieffer.com>**

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## Universität Heidelberg

Required for the Department of Neurology at the Faculty for Clinical Medicine Mannheim, Ruprecht-Karls-University Heidelberg a

### C3-Professorship for Molecular Neurogenetics

To be occupied as soon as possible – official Civil Service working conditions are offered.

Position requirements include a suitable specialist cooperation in research, teaching and supervision of the appointment scientific group "Molecular genetics and cell biology of neurological diseases". It is expected that the appointee will work closely together with the existing research groups in the research funded programme of the DFG, BMBF (MedNet Stroke) and the European Community, in addition to working together with the Medical Research Centre of the Faculty for Clinical Medicine, Mannheim and the research institutes of the University of Heidelberg. Applicants should have an appropriate degree in human/veterinary medicine, biology or biochemistry, scientific teaching and also a doctoral and PhD degree. Candidates without a PhD who are non EU nationals are eligible to apply if the individual has an appropriate degree/scientific discipline qualification. An additional commitment of treatment of out-patients and in-patients is a possibility but not a requirement. The position is available for an indefinite period. However at the first appointment of a professorship, the public employment under §67 par. 1 UG has to be temporary in principle. Exceptions are possible, particularly if candidates from abroad or from fields other than universities cannot be made interested. A new appointment procedure is not required should the employment be continued after expiry. The University of Heidelberg wants to increase the share of women in the scientific area and therefore especially invites qualified women to apply. Applicants should submit the usual papers (CV, account of the scientific and professional career, reports, list of publications, account of teaching experience and concept) within 6 weeks after publication of this notice to the **Dekan der Fakultät für Klinische Medizin Mannheim der Universität Heidelberg, Universitätsklinikum Mannheim, D-68135 Mannheim**

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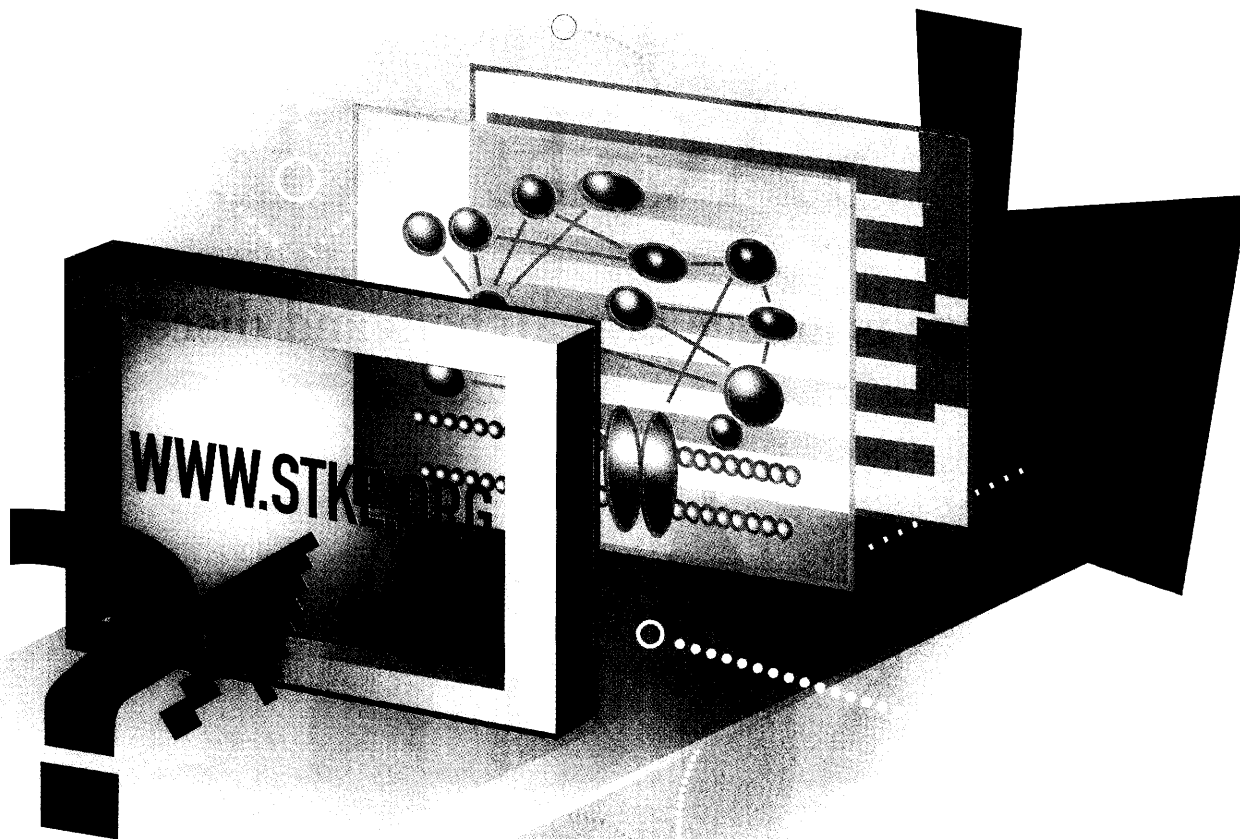
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## Head of Gastroenterology

As one of the world's leading research-based pharmaceutical companies, GlaxoSmithKline's reputation for innovation is respected throughout the industry. Now, to further this, we've made building knowledge of the pathophysiology of GI disease a high priority. We're establishing a new department that will house a wide range of scientists skilled in this field, including molecular and cellular biologists able to share information and learn from each others' experience.

Your department will be part of our Neurology Centre for Excellence in Drug Discovery (CEDD). The department will include three core teams using a wide range of methods, from molecular through to *in vivo* disease models, with the aim to develop new therapeutic agents for the treatment of IBS, functional dyspepsia, GERD & IBD.

You will play a pivotal role in establishing a new research strategy for GI disorders within GSK. This will include developing novel therapeutic agents, validation of targets and further enhancing our network of external collaborators. In addition, working within the CEDD concept will enable you to be intimately involved from lead discovery to proof of concept. While your focus will be on GI disease, through collaboration with colleagues in other therapeutic areas of the CEDD, you'll also be able to identify and exploit synergies with other disorders of the nervous system.

Already with a high profile in your field, you'll need an MD or PhD along with a track record in Neurophysiology and/or Neuropharmacology. Ideally, you will have expertise in *in vivo*

modelling and molecular and cellular aspects of GI disorders. However, equally important will be your ability to inspire confidence and motivate your team as well as your flair for presenting information in a clear and compelling manner.

In return, you'll benefit from an excellent remuneration package and outstanding career development prospects, as well as the satisfaction of leading and shaping pioneering research.

For confidential consideration, please email your resumé, quoting reference 113451/S to [mgouldstone@hodes.co.uk](mailto:mgouldstone@hodes.co.uk) or you can send your resumé quoting the reference on both the letter and envelope, to: Martin Gouldstone, Head of Practice, Pharmaceuticals and Healthcare, Bernard Hodes Group, Salisbury House, Bluecoats, Hertford SG14 1PU, UK. Telephone +44 (0) 1992 514326. Closing date February 25th 2002.

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## MRC DIRECTOR

Medical Research Council

### MRC BIOCHEMICAL AND CLINICAL MAGNETIC RESONANCE UNIT

MRC and Oxford University are investing further in expertise and imaging technology for the purposes of advancing biomedical research and clinical medicine.

As part of these activities, MRC wish to appoint a permanent Director of its Biochemical and Clinical Magnetic Resonance Unit. The Unit has facilities to carry out both basic science and clinical studies. It enjoys the benefits of being an integral part of a major research University with imaging expertise particularly in the fields of cardiovascular and CNS disorders.

For this position, we seek an internationally renowned scientist with research breadth incorporating world class expertise in medical imaging technology, leadership and management skills. The Director will set the overall strategy for the Unit and focus research efforts towards areas of medicine where imaging is expected to have significant impact, interacting with

other scientists and physicians from a range of disciplines, in Oxford and elsewhere.

He/she should have an international reputation in imaging research, with sound appreciation and experience of the technology underlying MR and its clinical application. The Director will have the opportunity to assemble an experienced team to develop new or improved imaging techniques. Furthermore, Council recognises the need to establish a new MR scanner on site.

Salary is highly competitive and negotiable, depending on previous experience. MRC is an equal opportunities employer.

**Please contact Dr Kevin Young at MKA Management Consulting Ltd. to discuss your interests in strict confidence:**

**Tel: +44 (0)1628 798015;**

**email: [k.young@mkanet.com](mailto:k.young@mkanet.com)**

# Science @

## CAREERS

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**Staff Pharmacologist/Pharmacokineticist (Interdisciplinary)**  
**GS-405/415/1320-13/14**  
**Toxicology & Pharmacology Branch**  
**Developmental Therapeutics Program**  
**Division of Cancer Treatment and Diagnosis**  
**National Cancer Institute, National Institutes of Health**  
**Vacancy Announcement # NCI-02-2300**

The Toxicology & Pharmacology Branch (T&PB) of the Development Therapeutics Program is seeking candidates for the position of Staff Pharmacologist/Pharmacokineticist. The Toxicology & Pharmacology Branch plans, directs and evaluates a collaborative, extramural, contract-supported program to conduct preclinical pharmacology and toxicology studies for anticancer drug and vaccine development. Candidates must have earned the Ph.D. degree in Pharmacology, Biochemistry, Chemistry or a closely related discipline and possess a working knowledge of modern pharmacological, biochemical, and biological methods of drug evaluation. The candidate must have post-doctoral experience in the application of such methods to the study of new anti-cancer agents. Must have at least 2-5 years of postgraduate experience in evaluating pharmacology and pharmacokinetics results and have demonstrated ability to summarize and reach conclusions in a highly professional manner. Experience with oncology agents is desirable.

The Staff Pharmacologist/Pharmacokineticist will be responsible for (1) managing the development of methodologies to determine levels of drugs and/or their metabolites in biological matrices; (2) determining the pharmacokinetic profile of drugs of interest in various species; (3) integrating pharmacological data into the drug development process in order to minimize undesirable toxicity and to attain effective drug levels; and (4) summarizing all pharmacology data and making recommendations for starting doses, dose escalation schemes and treatment schedules for clinical trial.

In order for us to validate your qualifications, it is necessary for you to describe your proficiency in the following areas: (1) knowledge of preclinical pharmacology study design and implementation; (2) skill in presentation of preclinical pharmacology studies by oral communication; and (3) skill in presentation of preclinical pharmacology studies by written communication.

To apply for this position, please submit your application/resume to:

**National Cancer Institute**  
**Human Resource Management**  
**& Consulting Branch**  
**Executive Plaza South, Suite 550**  
**6120 Executive Blvd., MSC 7209**  
**Rockville, MD 20852-7209**

For further information regarding application procedures, you may call the staffing office at 301-402-2789 or please visit: <http://careerhere.nih.gov>, vacancy announcement , NCI-02-2300. For information regarding the duties and responsibilities of the position, you may contact **Dr. Joseph Covey** at 301-435-9166.

The salary for this position ranges from \$63,211 to \$97,108 per annum. Benefits include health and life insurance options, retirement, paid holidays and vacation and sick leave.

Applications must be postmarked no later than February 1, 2002 to be considered. Applicants must be U.S. Citizens. *NIH/NCI is an Equal Opportunity Employer.*

**PROFESSOR and CHAIR**  
**Cell Biology & Molecular Medicine**

The University of Medicine and Dentistry of New Jersey (UMDNJ)-New Jersey Medical School invites nominations and applications for the position of Professor and Chair of the Department of Cell Biology and Molecular Medicine. The department (formerly Anatomy, Cell Biology & Injury Science) is currently undergoing major restructuring. The newly recruited Chair will have a pivotal role in this process, providing an opportunity to establish a strong research program by recruiting several new faculty and building on the current strengths of the department. The successful candidate will have a nationally recognized record of achievement in research and a strong interest in the development of effective medical and graduate teaching programs. For further information or to apply, please send your curriculum vitae to:

**Michael B. Mathews, Ph.D., Chair**  
**Cell Biology and Molecular Medicine**  
**Search Committee**  
**c/o Harriette Waltner**  
**UMDNJ-New Jersey Medical School**  
**Office of the Dean**  
**University Heights**  
**185 South Orange Ave.**  
**MSB-C671**  
**Newark, NJ 07103-2714**



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**Director of Immunology**

Abgenix, the San Francisco Bay Area's premier biotechnology company, is focused on the development & commercialization of therapeutic antibodies to treat life-threatening diseases. We currently have an excellent opportunity for an experienced leader to oversee & participate in the identification of targets for antibody-based therapies, as well as the development of cellular and animal models for the evaluation of the efficacy and pharmacological properties of antibody product candidates.

The successful candidate will assist in the strategic analysis directed toward the identification of targets for antibody-based therapies, and manage research groups, ensuring the highest possible level of research consistent with company goals. The position calls for a Ph.D. in cell biology, immunology, or other related life science, 7-10 years of preclinical biology experience, including success managing a productive research program, hands-on *in vivo* modeling experience, and expert knowledge of immunology and cell & molecular biology. Superior leadership and written/verbal communication skills are essential. Experience with biopharmaceutical product development preferred.

We offer a competitive compensation/benefits package and stock options. For consideration, please reference Job# 1A145N-SCI and e-mail your cover letter & resume to: [jobs@abgenix.com](mailto:jobs@abgenix.com), or mail/fax us at: **Abgenix, Inc., 6701 Kaiser Drive, Fremont, CA 94555;** **FAX: (510) 608-6511. [www.abgenix.com](http://www.abgenix.com)**



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## GLOBAL OPPORTUNITY

### KUWAIT UNIVERSITY

Department of Biological Sciences at the Faculty of Science at Kuwait University announces a position for staff members in the field of Flowering Plant Taxonomy.

#### Position Conditions:

1. Ph.D. majoring in flowering plant taxonomy
2. At least 5 years teaching experience
3. An excellent research conducting capability with experience in terrestrial and dryland plants
4. Excellent skill in English
5. Experience in herbarium management is preferred

#### Position Benefits:

1. Tax-free salary
2. Furnished accommodation 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 begin as of September 1, 2002

#### Papers required for the position:

1. Personal CV
2. Address, e-mails, telephone numbers and fax for the applicant
3. The addresses for recommendations
4. Photocopy of the applicant's passport data pages
5. Copies of academic qualification certificates (B.Sc., M.Sc., and Ph.D.)
6. List of under- and postgraduate courses
7. List of published papers with copies of the recent ones

Please send your papers to:

Office of the Dean  
Faculty of Science  
Kuwait University  
P.O. Box 5969  
Safat, 13060  
KUWAIT

All applications must be received by February 28, 2002. For more information, please contact us at: Fax: (965) 484-7054, E-mail: biosc@kuc01.kuniv.edu.kw



### Microarray Research Associate III

The Delaware Biotechnology Institute (DBI) at the University of Delaware has an opening for a Research Associate III. The successful candidate should have a M.S. / Ph.D. in a laboratory science and four years experience to help establish and maintain a custom microarray core facility, provide technical consulting and participate in cutting-edge research, and provide training for the research community.

For more information please visit our website at: <http://www.dbi.udel.edu>. Applicants should send a cover letter, resume/CV, and list of 3 references to:

Professor Joan Burnside  
Delaware Biotechnology Institute  
15 Innovation Way, University of Delaware  
Newark, DE 19711.

Applications will be accepted until the position is filled.

### Lab Coordinators (2)

The Delaware Biotechnology Institute (DBI) has immediate openings for two Laboratory Coordinators for a Molecular Biology Laboratory. The successful candidates should have a M.S. or Ph.D. in a laboratory science and two years experience in molecular biology. Experience in biochemistry, microarray analysis, RNA biology and/or Arabidopsis genetics preferred.

For more information about the positions and our science, please see: <http://www.dbi.udel.edu> and <http://www.bch.msu.edu/pamgreen/reference.htm> respectively. Applicants should send a cover letter, resume/curriculum vitae, and list of 3 references to:

Professor Pamela Green  
Delaware Biotechnology Institute  
15 Innovation Way, University of Delaware  
Newark, DE 19711

Applications will be accepted until the positions are filled.

The UNIVERSITY OF DELAWARE is an Equal Opportunity Employer which encourages applications from Minority Group Members and Women.

## Associate Letters Editor

*Science*, an international, general-interest scientific magazine, invites applications for the position of Associate Letters Editor. The successful candidate will be responsible for coordinating all aspects of the Letters Section in the magazine. Applicants should have a B.Sc. (or equivalent) in science, with 5-10 years experience in a publishing environment (graduate research experience may substitute in part), strong English-language skills, a strong interest in all aspects of science, excellent judgment and interpersonal skills. Please mail a cover letter with resume and salary requirements to:

The American Association for the  
Advancement of Science (AAAS)  
Suite 102

Associate Letters Editor Vacancy  
1200 New York Ave., NW  
Washington, DC 20005

fax 202 682-1630 or  
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# Science



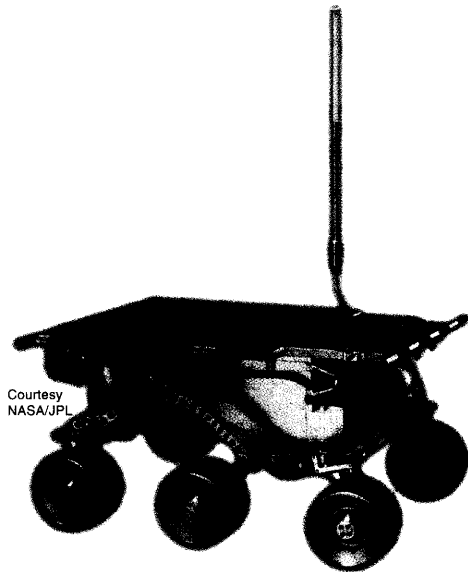
Creighton University

### School of Medicine Department of Medical Microbiology and Immunology Faculty Positions in Virology (2) and Immunology (1)

As part of an ongoing expansion in the basic sciences, Creighton University School of Medicine's Department of Medical Microbiology and Immunology invites applications for three tenure-track positions: (1) Assistant Professor (Virology), (2) Associate Professor (Virology), and (3) Associate Professor (Immunology). The appointees will be expected to conduct vigorous independent research programs, and have an interest and aptitude for teaching graduate students as well as medical, dental, and other allied health profession students. Laboratory space with equipment, start-up funding, and ongoing support will be available. Applicants should have the following qualifications: Ph.D., M.D., or M.D./Ph.D. degrees; postdoctoral training and experience, evidence of significant research accomplishments and scholarly promise. Applicants for the Associate Professor level positions should have NIH-funding and have demonstrated the potential to maintain peer-reviewed funding for their research. Applicants should send a curriculum vitae, a brief summary of their research plans and teaching interests, and arrange for three letters of recommendation to be sent to: Roderick Nairn, Ph.D., Professor and Chair, Department of Medical Microbiology and Immunology, Creighton University, 2500 California Plaza, Omaha, NE 68178. Applications will be screened immediately and will continue to be accepted until the position is filled.

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Equal Opportunity Employer.

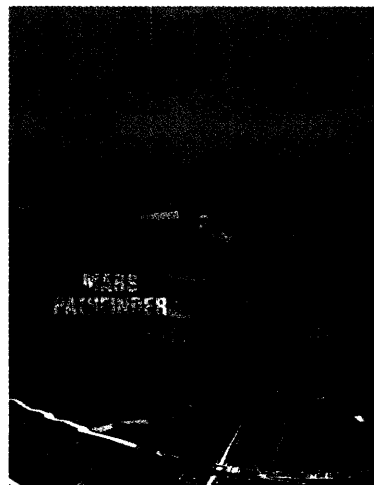
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## POSITIONS OPEN

### FACULTY POSITION PHYSIOLOGY AND BIOPHYSICS Boston University School of Medicine

The Department of Physiology and Biophysics at Boston University School of Medicine is inviting candidates to apply for the position of **ASSISTANT PROFESSOR** to begin in the fall of 2002; exceptional candidates for a more senior position will also be considered. The Department is composed of 25 faculty with interests in structural and membrane biology, visual and neural physiology, and lipoprotein biosynthesis. The collegiate environment in Boston allows for excellent opportunities to collaborate within and without the Medical School. The successful candidate will be expected to develop a strong, independently funded research program; become involved in the training and education of graduate students; and participate in teaching in the Medical School physiology and neuroscience courses offered in the spring. Candidates from any field will be considered but priority will be given to those with research interests that complement the Department's faculty. The Department can offer a competitive start-up package including generous laboratory space. For full consideration, please send curriculum vitae; up to four reprints; and a one- or two-page statement of research and teaching interests by March 1, 2002 and arrange for three letters of reference to be sent to:

**R. Andrew Zoeller, Ph.D.**  
Department of Physiology and Biophysics  
Room W317  
Boston University School of Medicine  
700 Albany Street  
Boston, MA 02118  
E-mail: [rzoeiler@bu.edu](mailto:rzoeiler@bu.edu)  
Website: <http://www.bumc.bu.edu/Departments/Home>  
Main.asp?DepartmentID=102

*Boston University School of Medicine is an Equal Opportunity/Affirmative Action Employer.*

### FACULTY POSITIONS Microbial Pathogenesis

The Department of Molecular Genetics and Microbiology at Duke University Medical Center invites applications in the area of microbial pathogenesis for tenure-track **ASSISTANT PROFESSORS** and more senior appointments in the Center of Microbial Pathogenesis. We are particularly interested in individuals focusing on bacterial or fungal pathogenesis including genomic approaches and individuals studying immune control of fungal or bacterial pathogens. The facilities and support available are outstanding. Applications should include curriculum vitae, description of research accomplishments and future plans, representative publications, and three letters of recommendation.

Address applications to: **Joseph Heitman, Microbial Pathogenesis Search Committee, Department of Molecular Genetics and Microbiology Box 3546, 322 CARL Building, Research Drive, Duke University Medical Center, Durham, NC 27710.**

**ASSISTANT PROFESSOR, Aquatic Vertebrate Ecologist:** tenure-track position at The University of Montana. Ph.D. (in fisheries, ecology, wildlife biology, or related field); strong biometrics background and record of publications and grants required. Postdoctoral experience preferred. Screening begins February 18, 2002. Submit curriculum vitae, research and teaching interests, recent publications, transcripts, and three reference letters (under separate cover) to:

**Daniel H. Pletscher**  
Search Committee Chair  
Wildlife Biology Program, School of Forestry  
The University of Montana  
Missoula, MT 59812  
Telephone: 406-243-5252

*Equal Employment Opportunity/Affirmative Action/State Veterans Preference.*

## POSITIONS OPEN

### BIOENGINEERING FACULTY POSITION Division of Engineering and Applied Sciences Harvard University

Applications and nominations are invited for a tenure-track faculty position in bioengineering. Areas of interest include tissue and cellular engineering, biomechanics, biomaterials, bioMEMS, imaging and image processing, and bioinformatics, but other areas may also be considered. Candidates should have a strong engineering focus and an outstanding research record. Responsibilities include active participation in Harvard's undergraduate degree programs in engineering as well as in research and teaching at the graduate level. A Ph.D. is required.

Harvard has a long record of accomplishment in the application of the engineering sciences and technology to health care. A significant expansion of Harvard's biomedical engineering program is now underway including new faculty positions, increased graduate admissions, and closer links between the Division of Engineering and Applied Sciences and the Harvard Medical School. New faculty will also be eligible for appointment in the Harvard-MIT Division of Health Sciences and Technology. Further information about the Division of Engineering and Applied Sciences is available at website: <http://www.deas.harvard.edu>.

Applicants should submit curriculum vitae; a statement of research and teaching interests; and the names, addresses (including e-mail), and telephone numbers of at least three references by March 1, 2002, to: **Biomedical Engineering Faculty Search, Division of Engineering and Applied Sciences, Pierce Hall 309, Harvard University, Cambridge, MA 02138.** Inquiries and applications (using pdf files only) may be directed to e-mail: [biomed@deas.harvard.edu](mailto:biomed@deas.harvard.edu).

*Harvard is an Equal Opportunity/Affirmative Action Employer. We welcome applications from qualified women and minority group members.*

### ASSISTANT/ASSOCIATE PROFESSOR ENTERIC PATHOGENESIS DIVISION OF INFECTIOUS DISEASES The Massachusetts General Hospital/ Harvard Medical School

Recruiting a funded Investigator at the Assistant/Associate Professor level with a research focus on molecular mechanisms of pathogenesis of enteric infection with pathogens such as *Salmonella*, *Yersinia*, *Campylobacter*, or *Listeria*. The majority of this person's time would be spent on his/her research program; appropriate space is available in a newly built research building, which will also house seven other Division faculty doing basic laboratory research. Interested candidates should forward curriculum vitae and a one-page statement of current and future research interests by February 1, 2002, to: **Stephen B. Calderwood, M.D., Chief, Division of Infectious Diseases, Massachusetts General Hospital, 55 Fruit Street, Boston, MA 02114.** Women and/or minority applicants are particularly encouraged to apply.

Columbia University seeks **MOLECULAR BIOLOGISTS** interested in pathogenesis of brain tumors. The Departments of Neurology and Pathology and the Institute of Cancer Genetics are jointly seeking individuals for new faculty positions at the **ASSISTANT or ASSOCIATE PROFESSOR** level to work within a new multidisciplinary brain tumor program. Applicants should have a track record of research accomplishment and demonstrated ability to secure independent, peer-reviewed grant support. Preference given to those who have current NIH support and whose work has the most potential relevance to new therapeutic approaches to brain tumors. Send curriculum vitae, summary of existing and planned research program, and names of three references to: **Timothy A. Pedley, M.D., Chairman, Department of Neurology, The Neurological Institute, Columbia-Presbyterian Medical Center, 710 West 168th Street, New York, NY 10032.** E-mail: [tap2@columbia.edu](mailto:tap2@columbia.edu). *Columbia University takes Affirmative Action to assure Equal Employment Opportunity.*

## POSITIONS OPEN

Grinnell College Department of Chemistry invites applications for two positions. The first is a one-year position in analytical chemistry; the second is a two-year position in organic chemistry, both at the **ASSISTANT PROFESSOR** level, beginning August 2002. A Ph.D. in chemistry is required. The analytical appointee will be expected to teach general chemistry and instrumental analysis. The organic appointee will be expected to teach general and organic chemistry courses. In their applications, candidates should address their interest in developing as a teacher and scholar in an undergraduate, liberal arts environment that values diversity and emphasizes close faculty-student interaction. Laboratory facilities and instrumentation for teaching and research are excellent, and some local research support is available. To be assured of consideration, send curriculum vitae; undergraduate and graduate transcripts; a statement of teaching/research interests; and three letters of recommendation by February 22, 2002, to: **Lee R. Sharpe, Chair, Department of Chemistry, Grinnell College, Grinnell, IA 50112-1690.** Telephone: 641-269-3008 or 3047; FAX: 641-269-4285; website: <http://www.grinnell.edu>. *Grinnell College is an Equal Opportunity/Affirmative Action Employer committed to attracting and retaining highly qualified individuals who collectively reflect the diversity of the nation. No applicant shall be discriminated against on the basis of race, national or ethnic origin, age, gender, sexual orientation, marital status, religion, creed, or disability.*

### TENURED POSITION IN BIOCHEMISTRY University of Wisconsin-Madison

The Department of Biochemistry at the University of Wisconsin-Madison invites applications for a position at the **ASSISTANT PROFESSOR** level. Applications in all areas of biochemical research are invited. The University and Department provide an excellent environment for the development of an outstanding research program. The laboratory of the appointed candidate will be housed in a new facility and the position will include excellent start-up support. The successful candidate will be expected to develop a vigorous, independent research program and participate in the undergraduate and graduate teaching programs of the Department. Applications including curriculum vitae, list of publications, and a brief summary of accomplishments and direction of future research should be sent to: **Professor H. F. DeLuca, Chair, Department of Biochemistry, University of Wisconsin-Madison, 433 Babcock Drive, Madison, WI 53706-1544.** Applications should be received by February 8, 2002, to ensure consideration. *The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.*

**ASSISTANT PROFESSOR OF BIOCHEMISTRY.** Tenure-track position in the Department of Biochemistry and Molecular Biology at North Dakota State University. Required qualifications include Ph.D. degree in biochemistry/chemistry, strong undergraduate background in chemistry/biochemistry, at least two years of postdoctoral experience, and proficiency in written and oral communications. Employment of physical/chemical research techniques preferred but not essential. Research interests in contemporary biochemical systems/phenomena such as proteomics, signal transduction, macromolecular interactions, molecular biology, membrane phenomena, and protein chemistry/enzymology. Successful candidate will develop a strong, independent, externally funded research program and teach and train undergraduate and graduate students. Send curriculum vitae; transcripts; detailed description of current and future research interests; and names, addresses, and telephone numbers of three references to: **Dr. D. K. Srivastava, Chair, Search Committee, Department of Biochemistry and Molecular Biology, North Dakota State University, Fargo, ND 58105.** Available August 2002; closing date February 28, 2002, or until filled. *NDSU is an Equal Opportunity Institution.*



**RESEARCH ASSOCIATE POSITIONS**  
**Molecular Pharmacology and Experimental Therapeutics**  
**Rochester, Minnesota, U.S.A.**

Four positions available in the Computer-Aided Molecular Design Laboratory (CAMDL, "www.mayo.edu/research/pang"): two Ph.D.-level computational biologists with protein-modeling experience; and a biochemist or pharmacologist with at least an MS degree and experience of *in vitro* and *in vivo* testing of therapeutic agents; and a computer programmer with at least a BS degree and knowledge of parallel computing and statistical mechanics. Salary and benefits are competitive. Mayo Clinic has an annual research budget of more than \$100 million and CAMDL receives extramural funding of close to \$1 million/yr.

Salary will be determined by the successful candidate's experience. There is an attractive benefit package. Mayo Clinic Rochester is a not-for-profit organization. Mayo integrates research with clinical practice and education in a multi-campus environment.

Please send curriculum vitae and bibliography, summary of past accomplishments, and the names of three references to:

**Dr. Yuan-Ping Pang**  
**Mayo Clinic Rochester**  
**Guggenheim 711A**  
**200 First Street SW**  
**Rochester, MN 55905**  
**E-mail: pang@mayo.edu**

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

**FACULTY POSITION**

**Human and Molecular Genetics Center and  
 Department of Microbiology & Molecular Genetics**

The Human and Molecular Genetics Center (HMGC) and the Dept. of Microbiology & Molecular Genetics of the Medical College of Wisconsin seek faculty studying the **molecular genetic mechanisms that contribute to cancer**. Applicants for this tenure track position will be expected to build a vigorous research program and to interact closely with members of the department, the HMGC, and the Cancer Center.

Although the rank for this position is open, a **non-entry level candidate who would play a leadership role in the College's program in the molecular genetics of oncogenesis is preferred**. A generous start-up package commensurate with rank, and a possible endowment, are available. The HMGC has several technological platforms in place: BioInformatics, Expression Profiling, Genomics including SNP detection and typing, Patient Ascertainment Center, and a Transgenics/ Knock-out Center. The Medical College offers a dynamic intellectual environment in a community with an excellent quality of life. Interested applicants should submit a full curriculum vitae, a statement of research, and the names of three references to:

**Paula Traktman, PhD**  
**Chairman, Microbiology & Molecular Genetics**  
**Medical College of Wisconsin**  
**8701 Watertown Plank Road, Rm. BSB-273**  
**Milwaukee, WI 53226**

Applicants are encouraged to reply prior to March 1, 2002, although applications will be reviewed upon receipt.

<http://hmgc.mcw.edu>

<http://www.mcw.edu/microbiology>

EOE/M/F/D/V



The NASA Goddard Space Flight Center (GSFC) 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.

The Head of the Biospheric Sciences Branch is responsible for planning, organizing, directing, implementing, and assessing a broad range of basic and applied research to study terrestrial ecosystems and their interactions with the atmosphere using multi-scale remote sensing, modeling, and advanced analytical techniques. Experiments and investigations of a scientific nature utilizing space techniques and capabilities lead to observations that enhance the understanding of these processes (For a more in-depth description of current activities within the Biospheric Sciences Branch, see <http://ltpwww.gsfc.nasa.gov/bsb/Home.html>). The incumbent participates in the development of immediate and long-range plans for initiation, continuance or cessation of Branch programs and projects. The incumbent aids in the establishment of immediate and long-range goals and objectives and determines types of programs required to achieve these objectives. The incumbent establishes, and is responsible for, schedules, manpower assignments and charges, and budgetary requirements for each task area in the Branch.

This search is targeted primarily to those with an advanced degree and/or equivalent experience in an appropriate field of physical or life sciences, mathematics, engineering, or computer science. This position requires mastery of the most advanced principles of biospheric sciences, including a broad knowledge of mathematics, physics or statistics as they relate to the formulation of physical or mathematical models that describe the physical and biological properties of the Earth's surface and their time-dependent behavior. The incumbent must also possess broad knowledge of the relationships between the biosphere, the hydrosphere and the atmosphere. The incumbent must furthermore have a general knowledge of the nature, role and capabilities of space technology as used in studies of biospheric science. The incumbent must have a solid record of research as demonstrated by his/her record of scientific publications in refereed journals and/or by the development and application of remote sensing instruments. The incumbent must have a demonstrated ability to secure research funds for his/her research and programs. The salary ranges from \$92,060 to \$119,682 per annum. Salary will be commensurate with the applicant's experience.

At this time, NASA GSFC is accepting resumes and professional vita, a list of refereed publications, and a cogent (approximately 1000 words) statement of career interests. The formal vacancy announcement, yet to be listed on the OPM USAJobs website, will require applicants to submit either an "Optional Application for Federal Employment" (OF-612), or SF-171, "Application for Federal Employment," or a resume in addition to the materials listed above. Interested parties should forward their submissions at this time to:

**NASA's Goddard Space Flight Center**  
**Human Resources Operations Office**  
**ATTN: Lori A. Moore**  
**Code 113 / Bldg. 1, Rm. 134**  
**Greenbelt, MD 20771**

A formal vacancy announcement is expected to be released early in 2002, with a goal of filling this position by late spring or early summer. For more information about position requirements and applications procedures, please contact **Ms. Moore at (301) 286-6958** or [lomoore@pop200.gsfc.nasa.gov](mailto:lomoore@pop200.gsfc.nasa.gov); and for technical questions call **Dr. Darrel Williams, Head, Biospheric Sciences Branch, at (301) 614-6011**.

*NASA is an Equal Opportunity Employer.*

## POSITIONS OPEN

### BIOCHEMISTRY FACULTY POSITION San Francisco State University

The Department of Chemistry and Biochemistry invites applications for a tenure-track position beginning fall 2002 at the level of **ASSISTANT PROFESSOR**. Applicants must have a Ph.D. and postdoctoral experience in biochemistry or a related discipline. Candidates must be committed to excellence in teaching biochemistry and are expected to establish an externally funded research program in functional genomics or proteomics involving undergraduates and Master's degree students. Expertise in such areas as bioinformatics, array-based screening, or mass spectrometry is desired. Applicants should send curriculum vitae; a detailed research proposal; a statement of teaching philosophy; and three letters of recommendation by February 18, 2002, to: **Biochemistry Search Committee, Department of Chemistry and Biochemistry, San Francisco State University, 1600 Holloway Avenue, San Francisco, CA 94132-4163**. Application materials (other than letters of recommendation) may also be submitted by e-mail: [moss@sfsu.edu](mailto:moss@sfsu.edu) (MS Word format). For further information, see website: <http://www.chembiochem.sfsu.edu>. San Francisco State University, a member of the California State University system, serves a diverse student body of 27,000 undergraduate and graduate students. The mission of the University is to promote scholarship, freedom, human diversity, excellence in instruction, and intellectual accomplishment. Faculty are expected to be effective teachers and demonstrate professional achievement and growth through continued research, publications, and/or creative activities. *San Francisco State University is an Equal Opportunity/Affirmative Action Employer.*

### FACULTY POSITIONS The University of Texas Health Science Center at Tyler

The Biomedical Research Departments at The University of Texas Health Science Center at Tyler are expanding their research programs by hiring additional state-funded faculty at all ranks. The Center's Mission focuses on basic and clinical research on heart and lung diseases. Current recruiting efforts are directed towards individuals with a track record of basic science research in infectious or environmental-related diseases of the lung and inflammatory cell biology. Preference will be given to candidates with a history of external funding. Teaching requirements are minimal. Tyler is situated approximately 100 miles east of the Dallas/Fort Worth metroplex. More information about the Institution and the city can be obtained at website: <http://www.uthct.edu>.

Interested candidates should submit current curriculum vitae, a future research plan, and the names and addresses of three references to: **Dr. Ronald F. Dodson, Chair of Faculty Search Committee, University of Texas Health Science Center at Tyler, 11937 U.S. Highway 271, Tyler, TX 75708-3154**. E-mail: [ronald.dodson@uthct.edu](mailto:ronald.dodson@uthct.edu). *Equal Employment Opportunity/Affirmative Action Employer; Minorities/Females/Veterans/Disabled. Applications are strongly encouraged from minorities and women.*

### MOLECULAR AND COMPUTATIONAL BIOLOGY University of Southern California

The University of Southern California invites applications for tenured positions at the senior level in molecular and computational biology. Preference will be given to established **RESEARCHERS** in computational and experimental genomics, DNA recombination and repair, or molecular neurobiology. Successful applicants will have outstanding opportunities for participating in interdisciplinary programs in neuroscience, computational biology, and genomics and evolution. Qualified applicants should send curriculum vitae and brief statement of research interests to: **MCB Search Committee, Department of Biology, University of Southern California, Los Angeles, CA 90089-1340**. USC is an Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### ASSISTANT PROFESSOR Remote Sensing

The Department of Forest Sciences, Colorado State University, invites applications for a tenure-track position at the Assistant Professor level to begin August 2002. Candidates must possess a Ph.D. and have demonstrated expertise in both traditional and state-of-the-art remote sensing technologies. Preference will be given to candidates with experience in natural resources applications and forested landscapes. We are seeking candidates with strong potential for obtaining external funding for a scholarly research program in remote sensing of natural resources and who will contribute to the continuing development of a program in geospatial sciences with national and international prominence (website: <http://www.colostate.edu/FS/>). The Department has an excellent teaching program and candidates should have strong potential for teaching at both undergraduate and graduate levels.

Applications will be considered until the position is filled; however, applications should be submitted by February 15, 2002, for full consideration. Candidates should send a cover letter addressing qualifications for the position, curriculum vitae, transcripts (copies are acceptable), and have three letters of recommendation sent to: **Dr. Ingrid Burke, Search Committee Chair, Department of Forest Sciences, Colorado State University, Fort Collins, CO 80523**. CSU is an Equal Employment Opportunity/Affirmative Action Employer. Equal Opportunity office: 101 Student Services.

### CELLULAR/MOLECULAR BIOLOGIST

The Department of Biology and Environmental Science at Marietta College is seeking applications for a tenure-track **ASSISTANT PROFESSOR** in cellular/molecular biology with experience in toxicology. We seek candidates who are broadly trained and who are able to bridge fields within the Department and the college. The successful candidate will teach at both the introductory and upper levels and maintain a vital student research program. Applicants should hold a Ph.D. and demonstrate teaching excellence and the potential to maintain research with undergraduates.

Review of applications will begin in late January 2002 and continue until the position is filled. Statements of teaching philosophy and student research interest, curriculum vitae, and undergraduate and graduate transcripts along with three letters of reference should be sent directly to: **Dr. Peter E. Hogan, Cellular/Molecular Biology Search Committee, Biology and Environmental Science Department, Marietta College, 215 Fifth Street, Marietta, OH 45750**. To expedite processing, applications may be sent via e-mail: [hoganp@marietta.edu](mailto:hoganp@marietta.edu).

*Marietta College is an Equal Opportunity Educator and Employer that values diversity. Women, minorities, and persons with disabilities are encouraged to apply.*

### EVOLUTION OF DEVELOPMENT

The University of Arkansas, Department of Biological Sciences, invites applications for a tenure-track **ASSISTANT PROFESSOR** in evolutionary development. We seek a Biologist working on the evolution of developmental processes in eukaryotes. Successful candidates must have a Ph.D. and postdoctoral experience and will be expected to develop a funded research program, supervise graduate students, and teach at the graduate and undergraduate levels. Application review will begin February 8, 2002, and will continue until the position is filled. Applications must include curriculum vitae, statements of research and teaching interests, reprints, and at least three letters of recommendation. Applications should be addressed to: **Dr. Steven J. Beaupre, Evolutionary Development Search Committee Chair, Department of Biological Sciences, Room 19 WAAX, University of Arkansas, Fayetteville, AR 72701**. For information about the Department of Biological Sciences, please visit website: <http://biology.uark.edu/bisc.html>. The University of Arkansas is an Equal Opportunity/Affirmative Action Employer. Applicants must have proof of legal authority to work in the United States at the time of hire.

## POSITIONS OPEN

### FACULTY POSITION PHARMACEUTICAL SCIENCES

The Department of Pharmaceutical Sciences at North Dakota State University (NDSU) invites applications for a tenure-track position at the rank of **ASSISTANT PROFESSOR** with appointment beginning August 15, 2002. The successful candidate will be expected to establish an externally funded research program, teach and mentor graduate students, and participate in team-taught pharmacology courses offered in the professional pharmacy curriculum. Qualified candidates must hold a Doctoral degree in pharmacology, pharmaceutical chemistry, physiology, or a closely related field. In addition, postdoctoral experience with a strong record of scholarship is required. The candidate must also have a strong commitment to teaching as well as good interpersonal and communication skills. The area of research interest is open including pharmacology, toxicology, drug metabolism, and others with preference given to Investigators working at the molecular or cellular level. Current active areas of research in the Department include cardiovascular and neuropharmacology, cell biology, membrane biophysics, drug delivery systems, pharmacokinetic modeling, and rational drug design.

Application deadline is February 15, 2002, or thereafter until the position is filled. Additional information can be obtained from website: <http://www.ndsu.nodak.edu/pharmsci/>. Candidates should submit curriculum vitae and a statement of research interests and request that three letters of reference be sent to: **Dr. John J. Wagner, College of Pharmacy, 123 Sudro Hall, Fargo, ND 58105**. NDSU is an Equal Opportunity/Affirmative Action Employer.

### FACULTY POSITIONS DIABETES RESEARCH

#### Vanderbilt University Medical Center

Applications are invited for full-time **TENURE-TRACK POSITIONS** at the faculty level in the Diabetes Research and Training Center. The focus of the DRTC, an NIH-designated diabetes research center, is to make discoveries in genetics, cell biology, biochemistry, structural biology, and immunology of diabetes and translate them into novel modalities for prevention, diagnosis, and treatment. Recruitment interest areas include molecular and cellular immunology, molecular biology of islet beta stem and progenitor cells, beta cell biology, insulin resistance, complications, genetics, and genomics or proteomics. Development of extramural funding for an independent program is expected. Candidates must have an M.D. and/or Ph.D. degree and an active research program. Individuals engaged in clinical or translational research related to diabetes are also encouraged to apply. Primary department affiliation and faculty rank will be determined by the applicant's qualifications. Applications containing curriculum vitae; statement of research goals; and three reference letters should be sent by March 1, 2002, to: **Dr. Roland Stein, Vanderbilt Medical School, Department of Molecular Physiology and Biophysics, 723 Light Hall, Nashville, TN 37232**. *Vanderbilt University is an Affirmative Action/Equal Opportunity Employer.*

### ASSISTANT/ASSOCIATE PROFESSOR (MOLECULAR PHARMACOLOGIST) Comparative Biomedical Sciences

Required qualifications: Ph.D. or equivalent degree in a biological science, biomedical science, or related field; postdoctoral experience; research background in molecular pharmacology; ability to teach in team-taught graduate and professional courses. Must have or will have extramural funding. Salary and start-up package will be competitive. Application deadline is February 15, 2002, or until candidate is selected. Submit letter of application and résumé to: **Gary E. Wise, Ph.D., Comparative Biomedical Sciences, School of Veterinary Medicine, Louisiana State University, Reference Number 009249, Baton Rouge, LA 70803**. Telephone: 225-578-9889.

*LSU is an Equal Opportunity/Equal Access Employer.*

## Vertebrate Zoologist

The Department of Biological Sciences at Plattsburgh State University of New York invites applications for a tenure-track Assistant Professor position in Vertebrate Zoology for the 2002-2003 academic year. The position is expected to begin on August 26, 2002.

**Qualifications:** A Ph.D. degree with a broad background in biology is required. The candidate must be committed to excellence in undergraduate teaching and should have a strong research program that actively engages undergraduate participation. **Responsibilities include:** Contribute to the offering of courses and laboratories in general biology, comparative animal physiology and human anatomy/physiology; and develop an elective course such as histology, zoology, or another area of expertise to support departmental programs. Research collaboration opportunities exist with faculty in the Center for Earth and Environmental Science and the Lake Champlain Research Institute.

**Applications from women and minority candidates are especially welcomed.**

**Plattsburgh State University of New York is an affirmative action, equal opportunity employer.**

**Salary:** Dependent upon qualifications and experience, with excellent benefits. Review of applications begins immediately and continues until the position is filled. Please submit resume; statement of teaching philosophy; summary of potential research; and the names, addresses and phone numbers of three references to: **Chair, Search Committee (PJ # 2645-SC1),** c/o Human Resources, Plattsburgh State University of New York, 101 Broad Street, Plattsburgh, NY 12901-2681. Fax: (518) 564-5060.

**Plattsburgh**  
STATE UNIVERSITY OF NEW YORK  
www.plattsburgh.edu/hr/



The UNIVERSITY of WESTERN ONTARIO  
Faculty of Medicine & Dentistry

## CHAIR DEPARTMENT OF MICROBIOLOGY & IMMUNOLOGY

Request for Applications

The Faculty of Medicine & Dentistry, at the University of Western Ontario, is inviting applications for the position of Chair in the Department of Microbiology & Immunology.

The Department of Microbiology & Immunology is a research-intensive department in the Faculty committed to excellence in research and teaching. Current primary research areas include the molecular and cellular biology of microorganisms and the immune system with emphasis on disease states, pathogenesis, and clinical links. The Department has a strong graduate program in Microbiology & Immunology and provides teaching in undergraduate programs in the Faculty of Medicine & Dentistry, Science, and Health Sciences.

Candidates should have demonstrated leadership and management skills. Candidates with outstanding accomplishments in any relevant research area will be considered, but individuals with research programs complementing existing research strengths are particularly encouraged to apply.

Details concerning the Department of Microbiology & Immunology, the Faculty of Medicine & Dentistry, and the University of Western Ontario, London, Ontario, may be found through the University's home page at [www.uwo.ca](http://www.uwo.ca).

Interested candidates should submit a CV outlining their research, teaching, and administrative experience and interests, including future directions, together with the name and addresses of three referees to: **Dr. Carol Herbert, Dean, Faculty of Medicine & Dentistry, Health Sciences Addition, The University of Western Ontario, London, Ontario N6A 5C1; FAX: (519) 850-2357.**

The position is available commencing July 1, 2002 but the competition will remain open until the position is filled. The selection committee will review applications starting March 1, 2002.

*The position is subject to budget approval. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Western Ontario 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. The University of Western Ontario has a defined contribution pension plan.*

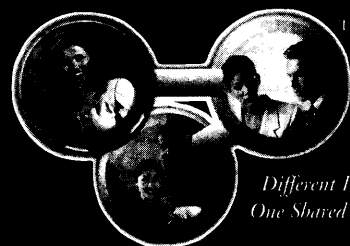
## Assistant Professor Harvard Medical School and Massachusetts General Hospital

The Department of Pathology and Cancer Center seek applications for a tenure track faculty position at the Assistant Professor level. The successful candidate will occupy Department of Pathology and Cancer Center laboratories at MGH-East in Charlestown. We seek outstanding individuals to establish a strong cancer research program, with preference for investigators focusing on mouse models. The successful candidate will also participate in teaching activities in Pathology and the Cancer Center.

Please forward curriculum vitae, list of publications, four reference letters, and brief statement of research interests, by March 15, 2002 to:

**Search Committee  
Molecular Pathology Laboratory,  
CNY7  
MGH, 149 Thirteenth Street  
Charlestown, MA 02129**

*Massachusetts General Hospital and  
Harvard Medical School uphold a  
commitment to Affirmative Action and  
Equal Opportunity.*



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### Postdoctoral Fellow

- PhD in Biological Science
- Experience with Bacillus Genetics or Biochemistry a plus
- Ability to characterize/identify the function of a novel and essential bacterial protein
- Must strive to reach goal of developing an assay for function of the protein

### Associate Director

- PhD in Molecular Biology/Biochemistry with 10-15 years experience (5+ within the industry)
- Experience in overseeing one or more biology laboratories and PhD scientists
- Strong interdisciplinary understanding of drug discovery/invention process
- Must direct/perform research leading to the discovery/identification of novel antimicrobial compounds

The collective skills of 40,000 of the world's top talent keep us on the cutting edge. We care for our people by offering rich avenues for advancement, challenging opportunities, competitive compensation, stock options, childcare subsidies, education assistance, flexible schedules and other great benefits. For consideration, please forward your resume and salary requirements to: **Wyeth Pharmaceuticals, Attn: S. Avery, 401 N. Middletown Road, Pearl River, NY 10965. Fax: 845-732-5375. E-mail: [averys@war.wyeth.com](mailto:averys@war.wyeth.com)** No phone calls. Principals only. Equal Opportunity Employer M/F/D/V

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## POSITIONS OPEN

### ASSISTANT/ASSOCIATE PROFESSOR Coastal Ecosystem Management

The University of Rhode Island invites applications for a nine-month, tenure-track Assistant/Associate Professor position in coastal ecosystem management in the Department of Marine Affairs starting in the summer 2002. The Department hosts rapidly evolving undergraduate, Master's, Ph.D., and research programs in policy and management and is located in a new College of the Environment and Life Sciences. For details about the Department, consult our website: <http://www.uri.edu/cels/maf>. The successful candidate must have a Ph.D., refereed publications, a clear statement on research goals and teaching philosophy related to the application of ecosystem principles to coastal policy and management, and a commitment to excellence in graduate and undergraduate education. Preference will be given to individuals with degrees in both a natural science and a social science, demonstrated ability to obtain grant support, evidence of successful teaching, and professional experience in coastal or marine ecosystem management. For appointment at the Associate level, an established record of research, publication, and teaching is required. A complete application consists of a letter of interest; curriculum vitae; statement of research objectives; samples of academic writing (dissertation abstract and journal articles); and three letters of recommendation (to be forwarded separately) by March 4, 2002, to: **Professor Richard Burroughs, Search Committee Chair, Log Number SM191224, University of Rhode Island, P.O. Box G, Kingston, RI 02881.** *The University of Rhode Island values diversity and is an Equal Opportunity Employer.*

### CHAIR, DEPARTMENT OF PATHOLOGY AND LABORATORY MEDICINE Boston University School of Medicine and Boston Medical Center

The Department of Pathology and Laboratory Medicine at the Boston University School of Medicine is seeking a Chair to provide leadership in the continuing development of this well-known, highly respected academic department and to serve as Pathologist-in-Chief at the Boston Medical Center, a vibrant urban medical center that includes the Mallory Institute of Pathology. The current Chairman has announced that he will relinquish his position effective July 2002. The next Chair will be an individual with an outstanding record of academic, clinical, and scientific achievement who meets the requirements for appointment as **FULL PROFESSOR** and who has demonstrated skill as an effective administrator.

Please send a letter of interest along with curriculum vitae to:

**Kenneth M. Grundfast, M.D., FACS**  
Chair, Pathology Department Search Committee  
Boston Medical Center  
88 East Newton Street, D616  
Boston, MA 02118  
Telephone: 617-638-7937  
E-mail: [kenneth.grundfast@bmc.org](mailto:kenneth.grundfast@bmc.org)

*The Boston University Medical Center is an Equal Opportunity Employer.*

**WILLIAM PATERSON UNIVERSITY OF NEW JERSEY.** Applications are invited for two tenure-track positions, one in biochemistry and one in analytical chemistry, to begin September 1, 2002, at the **ASSISTANT/ASSOCIATE PROFESSOR** level. Candidates must have a Ph.D. in chemistry and postdoctoral or equivalent research experience. The candidates will be expected to demonstrate a commitment to teaching excellence and establish an active research program. Send a current résumé, transcripts, and three letters of recommendation to: **Chair, Department of Chemistry and Physics, William Paterson University, 300 Pompton Road, Wayne, NJ 07470.** Review of applications begins immediately and continues until the position is filled. *WPUNJ is an Affirmative Action/Equal Opportunity Employer and actively seeks applications from women and minorities.*

## POSITIONS OPEN



### HEAD DEPARTMENT OF BIOMEDICAL SCIENCES

The Department of Biomedical Sciences (website: <http://www.cvmbs.colostate.edu>) offers an exciting opportunity for a dynamic and innovative individual to assume the leadership of a newly organized community of scholars. The Department's strengths are in its two university programs of research and scholarly excellence, Animal Reproduction and Biotechnology Laboratory (ARBL) and Molecular, Cellular, and Integrative Neurobiology (MCIN). Other research emphases currently being considered for strengthening are developmental biology and vascular biology. Faculty members in the Department are committed to teaching undergraduate, graduate, and professional veterinary medical students and have a strong reputation for innovation in instructional technology. Key roles of the new Department Head will be leadership, management, and mentorship as this new department builds on existing strengths and identifies new areas of opportunity for growth.

Applicants must have a Ph.D., D.V.M., M.D., or equivalent degree; demonstrated excellence in scholarly activity and research; experience in teaching and mentoring students; and must meet requirements for appointment as a **PROFESSOR**. Administrative experience is desirable. A letter of application, curriculum vitae, and list of three references who may be contacted when appropriate should be sent electronically or by post to: **Chair of the Search Committee, Dr. Carol D. Blair, Department of Microbiology, Colorado State University, Fort Collins, CO 80523.** E-mail: [cblair@colostate.edu](mailto:cblair@colostate.edu).

Review of applications will begin February 15, 2002, and continue until a suitable candidate is found.

*CSU is an Equal Employment/Affirmative Action Employer. Women and minority candidates are especially encouraged to apply.*

### EPIDEMIOLOGY/INFECTIOUS DISEASE

The School of Medicine at the University of Alabama at Birmingham is seeking a new faculty member at the **ASSISTANT PROFESSOR** level on the tenure track to address issues related to epidemiology and infectious disease. Current faculty interests include malaria, toxoplasmosis, filariasis, onchocerciasis, HIV, pneumocystis, arboviruses, bluetongue virus, and other opportunistic infections. We are seeking applicants with experience in international health, HIV/STD prevention research in international settings. Position will be expected to obtain grant funding during their UAB employment. Interested applicants should contact:

**Sten H. Vermund**  
Professor and Director  
Division of Geographic Medicine  
845 19th Street South, BBR 206B  
Birmingham, AL 35294-2170  
Telephone: 205-975-7700  
FAX: 205-934-5600  
E-mail: [sten@uab.edu](mailto:sten@uab.edu)

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

The Department of Environmental Science at the University of San Francisco (USF) invites applications for a tenure-track **ASSISTANT PROFESSOR** position in environmental science and studies with a specialty in land use planning and resource management to begin fall 2002. For details, please see website: <http://www.usfca.edu/envsci/>. *University of San Francisco is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### ASSISTANT PROFESSOR Animal Physiology

The Department of Biology at William Paterson University invites applications for a tenure-track Assistant Professor in animal physiology starting September 1, 2002. Ph.D. required. Postdoctoral research and teaching experience preferred. The candidate is expected to teach undergraduate and graduate courses to biology majors and anatomy and physiology to other related majors. The ideal candidate will have broad training in physiology and a willingness to interact with faculty who have interests in vertebrate development/genetics. Candidates are expected to develop a research program involving students within the facilities of the Department, which include a well-equipped biotechnology laboratory and an established mouse laboratory. The Department offers B.S. and M.S. degrees in biology and biotechnology. Applicants should submit curriculum vitae; statement of research interests; and names, addresses, and telephone numbers of three references to: **Dr. Jane R. Voos, Chairperson, Department of Biology, William Paterson University, Wayne, NJ 07470.** Website: <http://cs.wpunj.edu>. Review begins immediately and continues until the position is filled. *WPUNJ is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.*

### CHAIR, DEPARTMENT OF PHARMACEUTICAL SCIENCES College of Pharmacy North Dakota State University Fargo, North Dakota

We invite inquiries, nominations, and applications for the Chair, Department of Pharmaceutical Sciences, to begin on or before 1 July 2002. Screening will begin immediately and continue until the position is filled. Candidates must possess an earned Doctorate from an accredited institution; a distinguished record of teaching, research, and service commensurate with the rank of **ASSOCIATE PROFESSOR** or **PROFESSOR** with tenure; strong leadership skills; established excellence in interpersonal, communication, and administrative skills; a strong commitment to research and graduate programs; ability to articulate the mission of the College and Department; and participation and achievement in professional organizations. Preferred qualifications include experience with RO1 NIH grants or their equivalent, personnel management, budgets, faculty recruitment, and running meetings. Send nominations/applications (letter of interest, current curriculum vitae) to: **Kevin D. McCaul, Chair, Search Committee, 115D Minard Hall, North Dakota State University, Fargo, ND 58105-5055.** For further information, visit website: <http://www.ndsu.nodak.edu/pharmsci/index.htm> or e-mail: [kevin\\_mccaul@ndsu.nodak.edu](mailto:kevin_mccaul@ndsu.nodak.edu). *North Dakota State University is an Equal Opportunity Institution.*

### PLANT ECOLOGIST TENURE TRACK

The Biology Department of the City College of New York invites applications for the position of **ASSISTANT** or **ASSOCIATE PROFESSOR**. The successful candidate will be expected to develop a strong, independent research program focusing on local New York ecosystems. He or she will be expected to participate in teaching graduate courses in ecology and undergraduate courses in botany. CCNY is affiliated with the American Museum of Natural History. The CUNY Doctoral program is also affiliated with the New York Botanical Garden. Requirements are Ph.D. and one or more years of postdoctoral experience. Send curriculum vitae, letter detailing research interests, and names of three references to: **Professor Jane Gallagher (PVN FY-1232), Department of Biology, J526, City College of New York, Convent Avenue at 138th Street, New York, NY 10031.** E-mail: [janegall@sci.ccny.cuny.edu](mailto:janegall@sci.ccny.cuny.edu); FAX: 212-650-8585.



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#### **Scientist I, Plant Transformation**

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#### **Faculty Positions Department of Pharmacology The University of Michigan**

The Department of Pharmacology is seeking applications for three tenure-track positions at the ASSISTANT or ASSOCIATE PROFESSOR level. Applicants should have a Ph.D. and/or M.D., significant postdoctoral experience, and a record of excellent research accomplishment. We are seeking outstanding individuals with research experience and interests which augment current departmental programs. Information about current faculty interests is available at <http://www.med.umich.edu/pharm/faculty.html>

Applicants with research in the following areas are especially welcomed: 1) Genetics or therapeutics of Cardiovascular disease, 2) Pharmacogenetics of drug metabolism and 3) Cancer pharmacology with an interest in the following: signaling events in response to DNA damage and other cellular stresses and regulation of the cell cycle as it relates to response to chemotherapeutic agents. Successful candidates will be expected to establish and maintain active, externally funded research programs and to participate in teaching medical students and other health professionals, as well as graduate and postdoctoral students. An attractive start-up package including excellent facilities and generous startup funds will be available.

Send curriculum vitae, a brief description of current and future research directions, and information about teaching experience. Three letters of recommendation should be requested. Address correspondence to: **Chair, Pharmacology Search Committee, Department of Pharmacology, The University of Michigan Medical School, 1150 West Medical Center Dr., Ann Arbor, MI 48109-0632.**

*The University of Michigan is an Affirmative Action/Equal Opportunity Employer. Applications from qualified women, minorities and/or disabled individuals are encouraged.*

#### **DIRECTOR LAWRENCE LIVERMORE NATIONAL LABORATORY UNIVERSITY OF CALIFORNIA LIVERMORE, CALIFORNIA**

The University of California invites nominations and applications for the position of Director of the Lawrence Livermore National Laboratory (LLNL) which is managed by the University of California for the U.S. Department of Energy (DOE)/National Nuclear Security Administration (NNSA). The Laboratory was established in 1952 and is located 40 miles south-east of San Francisco in Livermore, California. It is one of three DOE national laboratories managed and operated by the University under performance-based contracts.

The Director is responsible for the management of the Laboratory and reports to the President of the University. Within University policy, the Director exercises broad delegated powers in the overall administration of the Laboratory's programs and operations, including definition of their technical aspects, negotiation of their size and content and executing them with the highest quality. In addition, the Director ensures a strong infrastructure and workforce for the Laboratory. Special responsibilities include an integrated safety management program for high-hazard facilities ranging from nuclear materials, high explosives and biological agents, to an integrated security program for many levels of highly sensitive information. The Director has significant financial, human, equipment and facility resources, with approximately 8100 staff members, an annual operating budget of \$1.3 billion, capital construction funds of \$300 million, and a \$4 billion capital plant investment.

The Director is responsible for leading the Laboratory's programs and operations to ensure national security and apply science and technology to the important problems of our time. National security is the defining responsibility of the Laboratory, focusing on two of the nation's top priorities: ensuring the safety, security, and reliability of the U.S. nuclear stockpile, and preventing and countering the proliferation of weapons of mass destruction, including the development of sensors and other technologies to counter nuclear, chemical, biological and cyber threats. New tools which enhance performance include the National Ignition Facility for laboratory thermonuclear physics experiments and state-of-the-art computers as part of the Advanced Simulation and Computing program.

The Laboratory's primary mission enables other programs in advanced defense technologies, energy, environment, biosciences and human health, and basic science, which in turn enhance the competencies needed for the national security mission. The Laboratory participates in multi-laboratory and university research and developmental efforts in areas such as genomics, accelerator development, and collaboration with industry on efforts supporting American technological strengths.

Candidates should have demonstrated success in leading and managing large scientific programs or organizations and should have an extensive record of scientific and technical accomplishments. Salary is commensurate with experience.

Applications, accompanied by current resumes, and nominations may be addressed to:

**Office of The President  
ATTN: LLNL Search  
1111 Franklin Street, Room 12408  
Oakland, CA 94607-5200**

Applications will begin to be reviewed February 15, 2002.  
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## POSITIONS OPEN

### FACULTY POSITION

Applications are invited for a tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level in the Department of Physiology and Biophysics, University of Miami School of Medicine (in exceptional cases, an appointment at tenured Full Professor will be considered). We seek candidates with demonstrated research interests in the neurosciences and/or cardiovascular physiology using biophysical, molecular, genetic, and/or cellular approaches. Candidates should have a Ph.D. and/or M.D. degree in a relevant field as well as postdoctoral training and publications in highly rated journals. The successful candidate will be expected to conduct an active, independent, funded research program and to contribute teaching with excellence in medical and graduate courses in neuroscience and physiology. Send paper copies of letter of application, curriculum vitae, statements of research and teaching interests, and copies of three publications to: **Dr. Gerhard Dahl, Chair, Faculty Search Committee, Department of Physiology and Biophysics, R-430, University of Miami School of Medicine, 1600 N.W. 10th Avenue, Miami, FL 33136.** Letters of recommendation from three references should be sent directly to the same address. Review of applications will commence February 15, 2002, and will continue until the position is filled. *The University of Miami is an Equal Opportunity/Affirmative Action Employer.*

### HUMAN MOLECULAR GENETICIST FACULTY POSITION University of North Texas Health Science Center at Fort Worth

The Division of Cell Biology and Genetics invites applications for a tenure-track faculty position at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR** in the area of molecular genetics, bioinformatics, and/or proteomics. The Division operates under the Department of Pathology and Anatomy and encompasses a broad range of research interests including forensic DNA technology, population genetics, vision research, and cell biology. The new faculty member will be expected to establish a vigorous, funded, independent research program and contribute to teaching at the graduate level in the forensic genetics program as well as in his/her area of expertise. Applicants should submit curriculum vitae, statements of research and teaching interests, and arrange for three letters of recommendation to be sent to: **Victoria Rudick, Ph.D., Chair, Molecular Genetics Search, Division of Cell Biology and Genetics, UNT Health Science Center, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107-2699.** Review of applicants will begin January 15, 2002. *UNTHSC is an Equal Opportunity/Affirmative Action Institution.*

### PROGRAM IN CELL BIOLOGY Sloan-Kettering Institute

**POSTDOCTORAL POSITION** immediately available in our laboratory in the Cell Biology program of the Sloan-Kettering Institute. We study the role played by activated tyrosine kinases in regulating the transformed phenotype of epithelial tumors and the pathways through which they effect their function. We use both genetic and chemical biological approaches and are interested in the development of specific inhibitors of components of mitogenic signaling pathways as reagents and as anticancer drugs. Current interests include the roles played by src, Akt, and Ras-MAP kinase in mediating HER kinase action in breast and prostate cancer; regulation of growth and survival signaling by the Hsp90 chaperone system; and the development and study of small molecule inhibitors of HER, src, and Akt kinase and of Hsp90.

Candidate should have extensive experience in cell and molecular biology or protein biochemistry. The position is fully funded and will be for at least two years. Salary depends on years of postdoctoral experience. Please send curriculum vitae and statement of interests to: **Dr. Neal Rosen or Dr. Mark Moasser, Memorial Sloan-Kettering Cancer Center, New York, NY. Telephone: 212-639-2370; FAX: 212-717-8627; e-mail: moasserm@mskcc.org.**

## POSITIONS OPEN

### POSITIONS CRYOELECTRON MICROSCOPY New York Structural Biology Center

The New York Structural Biology Center ([website: http://www.nysbc.org](http://www.nysbc.org)) seeks both junior and senior applicants for two **FACULTY-LEVEL POSITIONS** in the field of cryoelectron microscopy. The Center was founded by a consortium of nine New York academic research institutions (Albert Einstein College of Medicine, Columbia University, City University of New York, Memorial Sloan-Kettering Cancer Center, Mt. Sinai School of Medicine, New York University, Rockefeller University, Wadsworth Center, Weill Medical College at Cornell University) to implement high-end, state-of-the-art instrumentation for both NMR and cryoelectron microscopy in order to stimulate their institutional research programs. The Center is purchasing three cryoelectron microscopes at 120, 200, and 300 kV, the last with a liquid-helium stage and an energy filter. In addition to housing independent Investigators with active research programs, the Center will serve as a research resource for consortium members, providing local Investigators with excellent opportunities for collaboration on a wide array of biological targets. We now seek applicants for two cryoEM positions at the Center who have a record of excellent research achievement and active research programs in any of three cryoEM fields: tomography, single particles, or crystallography. Send a biographical sketch and a brief statement of research accomplishments and future plans together with names and addresses of three individuals who can provide letters of recommendation. Applications should be sent as soon as possible to: **CryoEM Search Committee; e-mail: nysbc@nysbc.org.**

The Department of Anatomy and Cell Biology of the School of Dental Medicine is seeking applicants for a tenure-track position in the standing faculty at the **ASSISTANT/ASSOCIATE PROFESSOR** level. Successful candidates are expected to have strong research programs that use innovative approaches to study significant problems in cell and molecular biology. These problems include but are not limited to control of extracellular matrix synthesis; the mechanism of cellular and tissue responses to stress, tooth, bone, and lung development; and vascular cell injury. Excellent opportunities for collaboration exist at the School of Dental Medicine and at other schools within the university. The applicant will be expected to have ongoing external grant support and participate in the teaching of anatomy, histology, embryology, or human physiology. The position will be available July 1, 2002. Applicants with either a Ph.D. or a dual degree (D.M.D.-Ph.D., M.D.-Ph.D., D.V.M.-Ph.D.) are invited to submit curriculum vitae, a letter outlining research interests, and the names of at least three references to:

**Edward J. Macarak, Ph.D.**

**Professor and Chair**

**Department of Anatomy and Cell Biology**

**School of Dental Medicine**

**University of Pennsylvania**

**Philadelphia, PA 19104**

**E-mail: macarak@biochem.dental.upenn.edu**

**FAX: 215-898-1687**

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### DIRECTOR Marine Science Education Center

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## POSITIONS OPEN

### FACULTY POSITIONS Oral Microbiology and Immunology Bacterial Pathogenesis

Full-time, tenure-track positions are available at the **ASSISTANT, ASSOCIATE, or PROFESSOR** level. The successful candidates will join the faculty in the University of Rochester's Center for Oral Biology in the Aab Institute of Biomedical Sciences, which is housed in the recently constructed Arthur Kornberg Research Building. Academic appointment will be in the Department of Microbiology and Immunology in the School of Medicine and Dentistry. The School of Medicine and Dentistry has a large and active graduate program with four NIH-sponsored training programs in the Department of Microbiology and Immunology, including the training program in oral infectious disease, housed within the Center for Oral Biology. Preference will be given to individuals conducting research into molecular mechanisms of pathogenesis by oral bacteria. Candidates at the level of Assistant Professor should have significant postdoctoral experience; a consistent record of quality, peer-reviewed publications; and substantial promise for becoming a productive, independent Investigator. Individuals seeking appointment at the level of Associate or Professor should also have a demonstrated record of extramural funding. Applicants should send a letter expressing their interest in the position along with a curriculum vitae and names of at least three references to: **Dr. James Melvin, Center for Oral Biology (Box 611), University of Rochester Medical Center, 601 Elmwood Avenue, Rochester, NY 14642. E-mail: [james\\_melvin@urmc.rochester.edu](mailto:james_melvin@urmc.rochester.edu).** *The University of Rochester is an Equal Opportunity Employer. Women and minorities are encouraged to apply.*

### ASSISTANT PROFESSOR MOLECULAR AND CELL BIOLOGY UNIVERSITY OF PENNSYLVANIA

The Department of Animal Biology at the University of Pennsylvania is soliciting applications for a tenure-track faculty position at the Assistant Professor level. The Department has a strong commitment to basic biomedical research and is located at the heart of Penn's Philadelphia campus in an interactive scientific environment. Outstanding candidates with research interests in the broad areas of cell and molecular biology are encouraged to apply. We are particularly interested in Scientists investigating basic cell processes as they relate to stem cell biology, metabolic regulation, oncogenesis, and infection. Applicants must have a Ph.D., M.D., V.M.D., or equivalent degree along with postdoctoral training and should be prepared to establish an independent, extramurally funded research program in conjunction with the research centers at Penn. Applicants are expected to participate in teaching in the Department and in universitywide graduate programs.

Interested candidates should submit curriculum vitae, a statement of research interests, and three letters of reference to: **Ms. Judy Bennett, Search Committee Coordinator, University of Pennsylvania School of Veterinary Medicine, 3800 Spruce Street, Philadelphia, PA 19104-6046. FAX: 215-573-6810; e-mail: [jbennett@vet.upenn.edu](mailto:jbennett@vet.upenn.edu).** Deadline for applications is February 15, 2002. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITIONS** are available immediately for highly motivated individuals to study mechanisms of signal transduction and gene regulation involved in cell growth, transformation, and programmed death using JNK and IKK signaling pathways as model systems (*Molecular Cell* 8:1005-1016, 2001; *Nature* 414:313-317, 2001). Successful candidates will be recent Ph.D. graduates with a strong background in molecular biology and cell biology. Working experience in mouse knockouts is particularly desirable. Please send curriculum vitae and three reference letters to: **Dr. Anning Lin; e-mail: [alin@huggins.bsd.uchicago.edu](mailto:alin@huggins.bsd.uchicago.edu); website: <http://benmay.bsd.uchicago.edu>.**



## HELP SHAPE THE FUTURE OF BASIC AND CLINICAL NEUROSCIENCE

The National Institute of Neurological Disorders and Stroke, NIH, is seeking a **Chief of the Scientific Review Branch** to supervise Scientific Review Administrators and support staff in analyzing the scientific content of grant applications and contract proposals, in selecting appropriate reviewers, in conducting review committee meetings, and to provide advice to the Institute regarding peer review and programmatic issues.

This is a GS 15 civil service position (salary range - \$ 91,906 - \$ 113,948). Physicians may be eligible for a Physician's Comparability Allowance. Applicants must have U.S. citizenship, a Ph.D. or M.D., and postdoctoral experience in neuroscience research. Applicants who have a broad knowledge of neuroscience and neurological disorders as well as excellent administrative skills are particularly sought.

Applicants should submit by **February 25, 2002**, a letter of application (refer to vacancy # **NINDS-01-0542**), a brief description of career interests, and a curriculum vitae and bibliography to: **Mr. Luis Arvelo, HRB, NINDS, NIH, Building 31, Room 8A23, 31 Center Drive, MSC 2540, Bethesda, MD 20892-2540; Tel. (301) 435-6033. FAX: (301) 480-0383; e-mail: la45j@nih.gov.** For information on qualification requirements and clarification of duties, contact **Dr. Constance W. Atwell, Associate Director for Extramural Research at (301) 496-9248 or e-mail her at ca23c@nih.gov**

Applicants are strongly encouraged to obtain specific information concerning the knowledge, skills and abilities (KSA's) needed for the position by contacting **Mr. Arvelo at (301) 435-6033**. For complete information regarding the vacancy please see our Web site at: [http://www.ninds.nih.gov/jobs\\_and\\_training/index.htm](http://www.ninds.nih.gov/jobs_and_training/index.htm).

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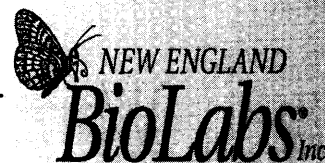
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**Postdoctoral Fellow (C. elegans):** Position available immediately for a recent Ph.D. to study potential drug targets in filarial parasites using *Caenorhabditis elegans* as a model system. The research involves the characterization of common genes and identification of molecules essential for nematode development. Applicants should have a strong background in molecular biology and *C. elegans* genetics. Send a resume and three references to: **Dr. Clotilde K.S. Carlow, or e-mail to [carlow@neb.com](mailto:carlow@neb.com)**

**Postdoctoral Fellow:** Position available immediately for a recent Ph.D. to carry out functional genomic studies of microbial genomes. Experiences with molecular biology or pathogenic bacteria are desirable. Send a resume and three references to: **Dr. Huimin Kong, or e-mail to [kong@neb.com](mailto:kong@neb.com)**

**Postdoctoral Fellow:** Position available immediately for a recent Ph.D. to study the mechanism of protein splicing and its control. Experience with protein engineering, genetics, and molecular biology are preferred. Among the projects under study are the control of protein splicing *in vivo* and *in vitro* using genetic selection systems, and the study of variations in the protein splicing mechanism. Send a resume and three references to: **Dr. Francine Perler, or e-mail to [perler@neb.com](mailto:perler@neb.com)**

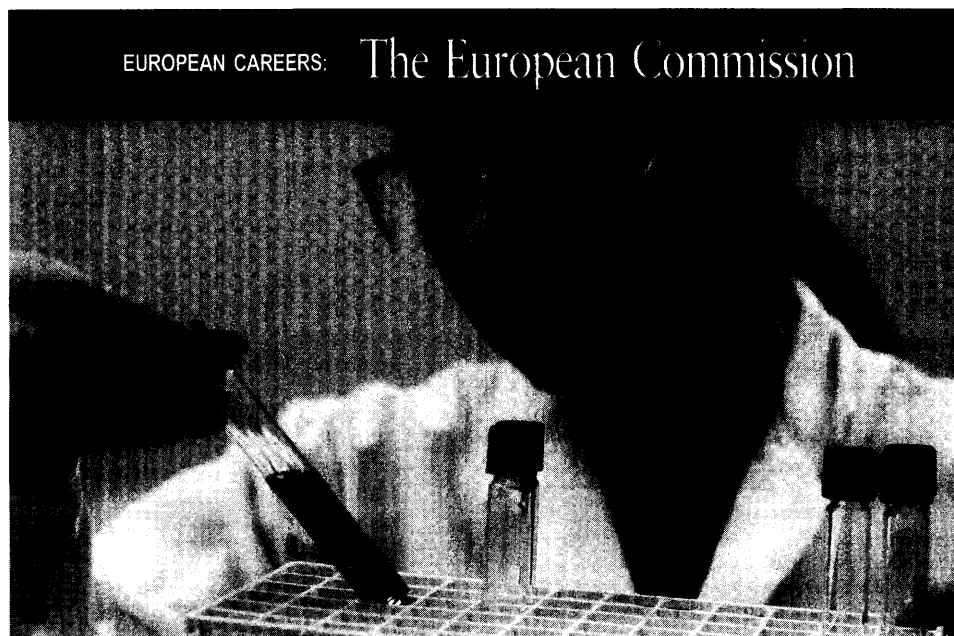
**Postdoctoral Fellow:** Position available immediately for a recent Ph.D. to study the role of glycosylphosphatidylinositol (GPI) anchoring in cell wall assembly, adhesion, and morphological growth of the pathogenic yeast *Candida albicans*. Projects include genetic and biochemical characterization of fungal-specific GPI genes that are candidate targets for anti-fungal drug development. Applicants should be energetic, self-motivated, and have a strong background in molecular biology and genetic techniques. Experience with the genetic manipulation of the yeasts *Saccharomyces cerevisiae*, *Candida albicans* or related species is highly desired. Send resume and three references to: **Dr. Christopher Taron, or e-mail to [taron@neb.com](mailto:taron@neb.com)**

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This article will concentrate on the current evolution within research in Europe, particularly regarding the transition from the Fifth (1999–2002) to the Sixth (2002–2006) Framework Programme, and the implementation of the European Research Area (ERA). These programmes aim to improve the human potential by supporting the training, and encouraging the mobility, of scientists throughout Europe. They offer particular benefits to young researchers and women scientists. This report will outline the general programme and highlight ways in which individual scientists can benefit from its many components.

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1 *Science* June 2001 BPA Publisher's Statement.  
2 *Science* Harvey Research Readership Surveys:  
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### Environmental Science and Policy

The Energy and Resources Group at UC Berkeley seeks a colleague for an appointment in the interdisciplinary area of Science, Technology, Environment, Resources, and Public Policy. The level is open.

The successful candidate will have:

- (1) Conducted academic research of the highest quality on policy issues related to science and technology, the environment, resource management, or related fields
- (2) Formal training or extensive experience in both science (or engineering) and social science,
- (3) Demonstrated engagement with a breadth of policy issues, and
- (4) Enthusiasm for teaching demanding and interdisciplinary students accustomed to interactive and reflective pedagogy.

The person who accepts this position will be engaged in collaborative teaching and research and must be able to work persuasively and effectively with colleagues whose concern with environment and resource issues is rooted both in social science and in natural and physical science and engineering backgrounds. Substantive specialization might be anywhere in a wide area, including all environmental areas (such as climate change, toxics, genetic engineering, biodiversity, technological risk, military technology, innovation, R&D and science policy, and the built environment) and any aspect of public policy, including policy analysis, process, design, and implementation; enforcement; and politics.

To apply for this position, please send by **March 1, 2002** (no application postmarked after that date can be considered, but early applications are encouraged):

- One or two published articles
- The names of four references
- A resumé that includes a list of courses you have taught
- A letter describing your research, government or public service, and teaching interests relevant to this unique position.

The committee also welcomes informal assistance with its search directed to: **ERG Chair Search Committee, Energy and Resources Group, University of California, 310 Barrows Hall, Berkeley, CA 94720-3050; <http://socrates.berkeley.edu/erg>.**

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### TENURE-TRACK FACULTY POSITION RADIOPHARMACEUTICAL SCIENCE

Purdue University seeks an outstanding scientist to fill a faculty position in the Nuclear Pharmacy program of the Department of Industrial and Physical Pharmacy. Candidates will be considered at any faculty rank.

Applicants should have research interests and experience in molecular approaches to problems in diagnostic imaging and/or targeted radiotherapy. Consideration will also be given to applicants with research focusing on the use of radiotracer techniques in drug development. The successful candidate will be expected to establish and/or maintain a strong, extramurally funded, biomedical research program. A commitment to excellence in teaching at the undergraduate and graduate levels is also required.

The Department has a vigorous and growing research environment, and is home to an active and successful educational program in Nuclear Pharmacy. Opportunities exist to participate in numerous intradepartmental, interdepartmental, and multi-institutional programs, such as the NSF/Purdue Center for Pharmaceutical Processing Research; the NIH-designated Purdue Cancer Center; the Purdue Neuroscience program; and the Indiana Center of Excellence in Biomedical Imaging. Additionally, Purdue is aggressively expanding its cross-disciplinary efforts in the sciences and engineering, including establishment of a new cGMP Pharmaceutical Manufacturing Center. Candidates must hold a Ph.D.; candidates at the assistant professor level should have at least two years of postdoctoral experience. Minority and women scientists are especially encouraged to apply.

Applicants should submit their curriculum vitae, a detailed description of research plans, and names of at least three references to:

**Faculty Search Committee  
Department of Industrial and Physical Pharmacy  
School of Pharmacy and Pharmacal Sciences  
Purdue University  
1336 Pharmacy Building  
West Lafayette, Indiana 47907-1336.**

Review of the candidates will begin February 15, 2002 and continue until the position is filled.

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### Postdoctoral Positions in Biochemistry at NIH

The Laboratory of Biochemistry of the National Heart, Lung, and Blood Institute has openings for several post-doctoral fellows to investigate aspects of the biochemistry and molecular biology of oxidative stress, especially the covalent modification of proteins. The specific topic will be selected jointly by the successful candidates and their mentor, **Dr. Boon Chock, Rodney Levine, or Earl Stadtman**. Candidates from any country are welcome to apply, especially those with training in enzymology, molecular biology, EPR methodology, or organic chemistry.

Please send a letter of interest with your curriculum vitae to:

**Biochemistry@NIH.gov**  
and indicate whether you want to be considered for all positions or those with a specific mentor.

### Staff Clinician

The National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), National Institutes of Health (NIH) is seeking a Physician Investigator to develop a vigorous clinical research program in Systemic Lupus Erythematosus (SLE), and other autoimmune diseases at the Clinical Center in Bethesda. The individual would collaborate closely with intramural laboratory programs to study the etiology, pathophysiology and natural history of patients with these diseases. The successful candidate will be expected to develop new Phase I/II therapeutic trials and lead the ongoing long-term outcome studies in SLE. Candidates must have an MD degree and Board Certification in Internal Medicine and Rheumatology. Formal training in clinical research and experience designing and conducting early phase clinical trials with biologic therapeutics is required. Evidence of scholarly achievements in these areas is required. Previous experience in evaluation of the immunologic and biologic impact of therapeutic interventions is highly desirable. A valid U.S. license is required. Starting salary is commensurate with experience and will be in the range of \$57,345 - \$103,623. Interested candidates should respond within 30 days of this advertisement by submitting a curriculum vitae and bibliography, at least three relevant reprints, summary of research interests, and the names of three references to:

**Ms. Jody Cullen, NIAMS/IRP  
Building 10, Room 9S205  
10 Center Drive MSC 1828  
Bethesda, MD 20892-1828**

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## POSITIONS OPEN

### DEPARTMENT OF MOLECULAR PHARMACOLOGY Stanford University

The Department of Molecular Pharmacology at Stanford University School of Medicine invites applications for a tenure-track or tenured position at the **ASSISTANT or ASSOCIATE PROFESSOR** level. Stanford University offers an outstanding environment for creative and interdisciplinary biomedical research. The predominant criterion for appointment in the University tenure track is the potential for outstanding research and teaching. Candidates with research interests in chemical biology, quantitative biology, signal transduction, functional genomics, and/or combinatorial biochemistry are particularly encouraged to apply. Rank and salary are dependent on the candidate's qualifications. Candidates should have a Ph.D. and/or M.D. degree and postdoctoral research experience. Candidates should send curriculum vitae, a description of future research plans, and arrange to have three letters of reference mailed to:

**Daria Mochly-Rosen, Ph.D.**  
Department of Molecular Pharmacology  
269 Campus Drive, CCSR Room 3145A  
Stanford University School of Medicine  
Stanford, CA 94305-5174

*Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.*

Northern State University in Aberdeen, South Dakota, is seeking qualified applicants (as evidenced by teaching experience and evidence of research/scholarly activity) for a tenure-track **ASSISTANT PROFESSOR** of biology. Applicants should hold a Ph.D. in biological sciences from an accredited institution and have expertise in botany. Knowledge of or experience with teaching with technology is desired. A.B.D. will be considered. The successful candidate's primary duties will include teaching conservation biology, plant taxonomy, plant morphology, lecture and laboratory courses in introductory biology for majors and nonmajors, and other courses depending upon the expertise of the applicant and departmental needs. Rank and salary will depend on degree status and experience. Consideration of applicants will begin on January 15, 2002, and will continue until the position is filled. The position is available August 2002. Address applications with résumés, transcripts, and three current letters of reference to: **Dr. Jay Ruud, Dean, College of Arts and Sciences, Northern State University, 1200 South Jay Street, Aberdeen, SD 57401-7198. FAX: 605-626-2635. Refer to the Human Resources page at website: <http://www.northern.edu> for more information.** *Affirmative Action/Equal Opportunity Employment.*

Shionogi BioResearch Corporation, a leader in biotechnology/pharmaceuticals research and development, seeks a **SCIENTIST** (Chemist) and a **RESEARCH ASSOCIATE** in our Lexington, Massachusetts, office. Scientist position requires Ph.D. in chemistry-related field. Research Associate position requires advanced degree and work experience or degree and extensive work experience. If interested, forward résumé to: **Lori Simkowitz, Human Resources Manager, Shionogi BioResearch Corporation, 45 Hartwell Avenue, Lexington, MA 02421. FAX: 781-274-8228; e-mail: [lsimkowitz@sbrco.com](mailto:lsimkowitz@sbrco.com).**

**POSTDOCTORAL POSITIONS** available to study (1) a novel kinase complex in transcription and cancer (*Mol. Cell.* 7:283, 2001) and (2) molecular mechanisms of the MDM2-p53 feedback loop (*PNAS* 97:12547, 2000) using methods of biochemistry, cell, and molecular biology ([website: http://www.ohsu.edu/som-biochem/faculty](http://www.ohsu.edu/som-biochem/faculty)). E-mail curriculum vitae and letters of recommendation to: **Hua Lu, Oregon Health and Sciences University, Portland, OR; e-mail: [luh@ohsu.edu](mailto:luh@ohsu.edu).**

## POSITIONS OPEN

**ASSISTANT PROFESSOR** of forest watershed management, tenure-track, nine-month position, in the Department of Environmental Science, Policy and Management, Division of Forest Science and the Agricultural Experiment Station at the University of California, Berkeley, available July 1, 2002. The candidate will be responsible for teaching and research in the management of forested watersheds. Potential areas of research could include efforts to understand the effects of changing climate, land use, and management practices on the hydrologic cycle; stream habitat quality; soil erosion processes; and watershed resources. Responsibilities involve teaching an undergraduate and graduate course in forest watershed management as well as participation at the UC Forestry Summer Camp. Applicants must have a Ph.D. degree in an appropriate field such as forestry, civil engineering, geography, watershed hydrology, riparian ecology, or a related field. The successful candidate must have an outstanding record of scientific accomplishment and a strong commitment to both undergraduate and graduate teaching. Curriculum vitae; copies of recent publications; statements of research and teaching interests and experience; and the contact information (names, postal addresses, e-mail addresses) of three references should be sent to: **Chair, Forest Watershed Management Search Committee, Division of Forest Science 145 Mulford Hall, University of California, Berkeley, Berkeley, CA 94720-3114.** Applications received by March 1, 2002, are assured of full consideration. For more information visit our website: <http://www.cnr.berkeley.edu/departments/espm/watershed>; Telephone: 510-642-3794. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT/ ASSOCIATE/FULL PROFESSOR Environmental Respiratory Biology and Genomics

The Department of Environmental Health, Molecular Toxicology Division, is seeking applicants for a faculty position to conduct research in respiratory molecular biology, molecular genetics, or functional genomics. Preference will be given to candidates interested in the genetic determinants of chronic obstructive pulmonary disease in model systems or in human populations. This individual will join a well-funded research program in respiratory cell biology and will be provided sufficient start-up funds to establish a laboratory. The successful candidate will have a Doctorate and postdoctoral research experience in a related field and a willingness to train graduate students and Postdoctoral Fellows in molecular biology in their laboratory. The Department of Environmental Health has over 40 faculty interested in ecogenetics, genetic toxicology, signal transduction, and population genetics and has graduate programs in environmental toxicology and molecular epidemiology. Submit curriculum vitae, research interests, names of three references, and three manuscripts to: **Ms. Amy Nawaz, Program Coordinator, Molecular Toxicology Division, University of Cincinnati, P.O. Box 670056, Cincinnati, OH 45267-0056.**

### TULANE UNIVERSITY HEALTH SCIENCES CENTER Tulane Regional Primate Research Center

A **POSTDOCTORAL ASSOCIATE** is sought to join a multidisciplinary group working on the pathogenesis of Lyme disease. Background in cell biology or immunology would be advantageous. Please send curriculum vitae and names of three references by February 15, 2002, to: **Dr. Mario T. Philipp, Chairman, Department of Parasitology, Tulane Regional Primate Research Center, 18703 Three Rivers Road, Covington, LA 70433. E-mail: [philipp@tpc.tulane.edu](mailto:philipp@tpc.tulane.edu).**

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

## POSITIONS OPEN

### TENURE-TRACK POSITION

The Laboratory of Molecular Pharmacology (LMP), Center for Cancer Research, of the National Cancer Institute, National Institutes of Health, invites applications for a tenure-track position in molecular therapeutics. The applicant should have a potential to develop an independent basic research program in molecular and cellular biology with emphasis on the development of novel strategies for the treatment of human cancer. Candidates with confirmed expertise with experimental systems dealing with cell cycle checkpoints, apoptosis, cell cycle regulation, DNA damage/repair, and signal transduction are encouraged to apply. This position is available for a Ph.D., M.D., or M.D./Ph.D. with a salary commensurate with education and experience. A one- or two-page statement of research interests and goals should be submitted in addition to three letters of recommendation and curriculum vitae to: **Ms. Althea Jackson, Laboratory of Molecular Pharmacology, National Cancer Institute, NIH, Building 37, Room 5068, 37 Convent Drive MSC 4255, Bethesda, MD 20892-4255. Telephone: 301-435-8232; FAX: 301-402-0752; e-mail: [tiaj@mail.nih.gov](mailto:tiaj@mail.nih.gov).** Applications must be received within one month of this announcement. *The National Cancer Institute is an Equal Opportunity Employer. Selection for this position will be based solely on merit with no discrimination for nonmerit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or nonmembership in an employee organization. Candidates must be U.S. citizens or permanent residents.*

The Department of Pathology and Laboratory Medicine at the University of Rochester School of Medicine and Dentistry has a faculty opening for a tenure-track Basic Scientist. The successful applicant will have M.D., Ph.D., or M.D./Ph.D. degrees and be interested in developing a program in basic biomedical research. Although any medically relevant research focus is acceptable, an interest in signal transduction mechanisms would be particularly attractive. Faculty rank will be commensurate with prior experience. The Department has existing strengths in cardiovascular, genitourinary, and bone research. The Medical Center is rapidly expanding its research programs, thus providing multiple opportunities for collaborative research, particularly with members of the Aab Institutes of Biomedical Sciences in the fields of cancer biology, cardiovascular disease, immunology, aging and development, musculoskeletal disease, and genetics. Interested individuals should send their curriculum vitae and a list of three references by March 1, 2002, to:

**Steven L. Spitalnik, M.D.**  
Chair, Department of Pathology  
and Laboratory Medicine  
University of Rochester School of Medicine  
and Dentistry  
601 Elmwood Avenue, Box 626  
Rochester, NY 14642

**RESEARCH ASSOCIATE/POSTDOCTORAL FELLOW.** An established laboratory is seeking a motivated Ph.D. or M.D. to study the differentiation of mouse and human embryonic stem cells to hepatocytes. Interested candidates should submit updated curriculum vitae and bibliography plus three letters of recommendation to:

**Dr. Savio L.C. Woo**  
Professor and Director  
Carl C. Icahn Institute for Gene Therapy  
and Molecular Medicine  
Mount Sinai School of Medicine  
One Gustave L. Levy Place  
Box 1496  
New York, NY 10029  
FAX: 212-849-2572  
E-mail: [savio.woo@mssm.edu](mailto:savio.woo@mssm.edu)



**RESEARCH FELLOW**  
**Transplant Biology Program**  
**Rochester, Minnesota, U.S.A**

A postdoctoral research position is available in the laboratory of Dr. Amy Tang of the Transplant Biology Program at Mayo Clinic in Rochester, Minnesota, (ref. *Cell* **90**, 459-467, 1997; *Genetics* **148**, 277-286, 1998; *Development* **128**, 801-813). Applicants must have a PhD and/or MD and should have experience in the fields of signal transduction, molecular biology, biochemistry, genetics, or pharmacogenomics. Experience with *Drosophila*, forward and reverse genetic screens, and mutant analyses is highly desirable.

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:

**Ms. Sharri Hackbarth**  
**Research Administration**  
**Mayo Clinic, 200 First Street SW**  
**Rochester, MN 55905**  
**507-284-1771**  
**Hackbarth.Sharri@mayo.edu**

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 Equal Opportunity Employer and Educator.*

**Max-Planck-Institut für  
 biologische Kybernetik**

Max Planck Institute for Biological Cybernetics



**Research scientist**

A research scientist position is available at the new Cognitive Systems Laboratory at the Max Planck Institute for Biological Cybernetics in Tübingen, Germany. The position requires a strong background in mathematical modelling for computer vision or computer graphics. Preference will be given to candidates that have experience with the synthesis of faces and/or gestures. Experience with face recognition systems would be an advantage.

The successful candidate will join a dynamic and interdisciplinary group of scientists performing cutting-edge research on human vision, computer vision, and Human-Computer Interaction.

Further information about the research environment can be found at our website (<http://www.kyb.tuebingen.mpg.de>). Informal inquiries should be sent to Dr. Douglas Cunningham ([douglas.cunningham@tuebingen.mpg.de](mailto:douglas.cunningham@tuebingen.mpg.de)).

The position is initially funded for 3 years at the BAT IIa/Ib level by a grant from the European Union. The starting date is negotiable. Applicants must have a Ph.D. or equivalent degree. To apply, send a curriculum vitae, representative publications, and three letters of recommendation to:

**Max Planck Institute for  
 Biological Cybernetics**  
 Prof. Dr. Heinrich H. Bülthoff, Director  
 Spemannstraße 38, 72076 Tübingen, Germany  
 email: [heinrich.buelthoff@tuebingen.mpg.de](mailto:heinrich.buelthoff@tuebingen.mpg.de)



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 - California -**

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Ideal candidate will have an advanced degree (Ph.D. preferred) in the natural resource sciences, conservation biology, biological sciences or related field, at least 5 years related experience and a strong understanding of biological, land and water conservation issues. Experience with on-site conservation plans, an understanding of methods to measure conservation progress, the ability to fundraise and excellent written and verbal communication skills are essential. Must be customer oriented with strong partnership building skills and the ability to travel frequently. Please send resume with cover letter to: **The Nature Conservancy, Attn: HR, 201 Mission St, 4th Flr, San Francisco, CA 94105. Fax: 415-777-0244.** The Nature Conservancy is an Equal Opportunity Employer committed to the diversity of its staff.

E-mail: [resumes@tnc.org](mailto:resumes@tnc.org)

Visit: [www.nature.org/careers](http://www.nature.org/careers)



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**FACULTY POSITIONS  
 CANCER RESEARCH**

UNIVERSITY OF  
**Nebraska**  
 Medical Center

NEBRASKA'S HEALTH SCIENCE CENTER  
*A Partner with Nebraska Health System*

The Eppley Institute for Research in Cancer of the University of Nebraska Medical Center (UNMC) is seeking faculty to conduct research in three general areas. These faculty appointments are tenure leading with academic rank based on candidates' qualifications.

- **Basic Cancer Research:** all areas of molecular, cellular or structural biology related to cancer
- **Cancer Prevention:** molecular, genetics and/or genomics based approaches to cancer prevention
- **Tumor Immunology:** basic or clinical aspects of tumor immunology

The Eppley Institute is an academic unit of UNMC and a key component of the UNMC Eppley Cancer Center, an NCI-designated Cancer Center. Both the Eppley Institute and Cancer Center are in a dynamic growth phase. Applicants should possess a Ph.D., M.D. or other terminal degree and appropriate postdoctoral training. Successful applicants will be expected to develop funded laboratory research programs, collaborate with other faculty and participate in the pre- and post-doctoral training programs of the Eppley Institute, including an NCI-funded Cancer Research Training Program and a DOD-funded Breast Cancer Training Program.

Applicants should indicate which position they are applying for and forward a complete curriculum vitae, a 3 page description of research accomplishments and future research plans, and a minimum of 3 letters of reference to: **Dr. Kenneth H. Cowan, Director, Eppley Institute for Research in Cancer, University of Nebraska Medical Center, 986805 Nebraska Medical Center, Omaha, Nebraska, 68198-6805.** Review of applications will begin November, 2001 and will continue until the positions are filled. See <http://www.unmc.edu/Eppley/> for more information.

*The University of Nebraska Medical Center  
 is an equal opportunity employer.*

## POSITIONS OPEN

### INFORMATION MANAGER The University of Toledo

(Job Number 301): The University's Lake Erie Research Center seeks an Information (Database) Manager. The primary duties of the Information Manager will be to develop an Oracle Web-based, data management system; to incorporate environmental data into this system; to develop Oracle application tools for access to calculated secondary data sets; and to provide data from the system to all interested parties. Qualifications include a B.S. (minimally) or preferably an M.S. degree in information science or a related field with a strong background and/or experience in managing data within an area of environmental science (e.g., geology, ecology). Alternatively, qualifications must include an M.S. (minimally) or preferably a Ph.D. degree in environmental science (e.g., geology, ecology) with a strong background and/or experience in database management. Experience with UNIX and desktop programming is required as well as familiarity with relational database and GIS concepts. The position requires effective management of multiple tasks; strong communication skills; and the ability to work well with a diverse group of Scientists, government agencies, and public interest groups. Salary to \$40,000 to \$50,000 per year (depending on qualifications) plus benefits. Application review will begin March 1, 2002, and continue until a suitable candidate is found. To apply, submit cover letter (include position title and job number), résumé, and the names and telephone numbers of three professional references to: **The University of Toledo, Human Resources Department, Toledo, OH 43606-3390. FAX: 419-530-1490; e-mail: acarder2@utmet.utoledo.edu.** Please use only one method of application. *The University of Toledo is an Equal Access/Equal Opportunity/Affirmative Action Employer and Educator.*

### RESEARCH ASSISTANT PROFESSOR AND POSTDOCTORAL POSITIONS University of Illinois at Chicago

The University of Illinois at Chicago's Center for Molecular Biology of Oral Diseases is currently seeking a Research Assistant Professor with a Ph.D. in biochemistry, at least one year of postdoctoral experience in molecular biology and protein expression/purification of recombinant proteins, and publication in peer-reviewed biochemical journals. The research to be performed will include thermodynamic, kinetic, and spectroscopic methods of biochemical and biophysical analysis of protein structure and function. Available Postdoctoral positions require experience in molecular and cell biology focusing on the mechanism of oncogenesis. Send curriculum vitae and three letters of reference to: **Personnel Manager, CM-BOD, MC 860, UIC, 801 South Paulina, Chicago, IL 60612.** UIC is an Affirmative Action/Equal Opportunity Employer.

### POSTDOCTORAL POSITION

#### Center for Cardiovascular Research

#### Washington University School of Medicine

NIH-funded Postdoctoral positions are available immediately to study molecular mechanisms of cholesterol and fatty acid trafficking (*J. Biol. Chem.* 276: 14890-14895; 276:37042-37050; 276:46414-46421). M.D., Ph.D., or equivalent degree and background in molecular cell biology required. Send curriculum vitae and names of three references to: **Drs. Daniel Ory and Jean Schaffer, Center for Cardiovascular Research, Washington University School of Medicine, Box 8086, 660 South Euclid Avenue, St. Louis, MO 63110. FAX: 314-362-0186; e-mail: jschaff@im.wustl.edu.**

**POSTDOCTORAL POSITIONS** available immediately to study mechanisms of inherited retinal degenerations using molecular biology, biochemistry, and cell biology approaches. Send application to: **Dr. Tiansen Li, Harvard Medical School, Massachusetts Eye and Ear Infirmary, Boston, MA 02114. E-mail: tli@meci.harvard.edu; website: http://www.howelaboratory.harvard.edu/#faculty.**

## POSITIONS OPEN



### WEST VIRGINIA UNIVERSITY

#### TENURE-TRACK ASSISTANT PROFESSOR Computational, Forensic, or Molecular Biology

The Department of Biology at West Virginia University invites applications for a tenure-track Assistant Professor to begin August 16, 2002. This opening is part of a departmental expansion coinciding with movement to a new Life Sciences building in summer 2002. Qualified applicants in any area of computational, forensic, or molecular biology will be considered. The successful candidate will be expected to establish an externally funded research program and publish in peer-reviewed journals. Teaching responsibilities will include a course for students in the recently established Forensic Identification program (**website: <http://www.wvu.edu/~forensic>**) and alternating undergraduate and graduate courses in the individual's specialty. A Ph.D. is required. WVU is a comprehensive, research-intensive university including Arts and Sciences, Medical, Dental, Agricultural, Engineering, and Law schools. WVU is located in Morgantown, West Virginia, a city recently selected as the "Best Small City in America" by Bizjournal.com. Also located in Morgantown, West Virginia, are the Mary Babb Randolph Cancer Center, NIOSH, and Mylan Pharmaceuticals. To apply, please send curriculum vitae, statement of research and teaching interests, three representative publications, and the names and contact information of three references to: **Keith Garbutt, Search Chairperson, Department of Biology, West Virginia University, Morgantown, WV 26506-6057.** Inquiries may be directed to: **Keith Garbutt; Telephone: 304-293-2100.** Additional information about the Biology Department may be found at **website: <http://www.as.wvu.edu/biology/>.** Review of applications will begin February 4, 2002. *West Virginia is an Equal Opportunity/Affirmative Action Employer. Applications from women and minorities and the disabled are strongly encouraged.*

**ASSISTANT PROFESSOR**, Biotechnology for Sustainable Development. Ph.D. in biotechnology, conservation genetics, or related field earned or near completion. Demonstrated excellence in teaching and applied research and ability to plan and conduct online courses for traditional and nontraditional students. International work experience and working with diverse populations of learners and clients desirable. Twelve-month, tenure-track position includes teaching courses during academic year in forest, fisheries, and wildlife conservation genetics; restoration ecology; and other courses developed by the incumbent for a new Biotechnology for Sustainable Development certificate program and full-time equivalent in summer for outreach education and research. Begins July 2002. Salary commensurate with qualifications/experience. Send hard copies of application letter, curriculum vitae, copies of transcripts, at least three reference letters, and statements of teaching and scholarship philosophies by 1 March 2002 to: **Dr. J. W. Hardin, College of Natural Resources, University of Wisconsin-Stevens Point, Stevens Point, WI 54481. E-mail: [jhardin@uwsp.edu](mailto:jhardin@uwsp.edu).** *University of Wisconsin-Stevens Point is an Equal Opportunity Employer.*

**RESEARCH ASSOCIATE/POSTDOCTORAL FELLOW.** An established laboratory is seeking a motivated Ph.D. or M.D. to pursue a study on gene therapy for Type 1 diabetes. Interested candidates should submit updated curriculum vitae and bibliography plus three letters of recommendation to:

**Dr. Savio L.C. Woo**

**Professor and Director**

**Carl C. Icahn Institute for Gene Therapy**

**and Molecular Medicine**

**Mount Sinai School of Medicine**

**One Gustave L. Levy Place, Box 1496**

**New York, NY 10029**

**FAX: 212-849-2572**

**E-mail: [savio.woo@mssm.edu](mailto:savio.woo@mssm.edu)**

## POSITIONS OPEN

### DIRECTORSHIP AND GROUP LEADERS

The Chinese Academy of Sciences invites applications from outstanding candidates in nutritional sciences for Directorship, Assistant Directorship, and Group Leader positions for the newly established Institute of Nutrition and Health in Shanghai, China. Candidates with expertise in all areas of nutritional sciences are encouraged to apply. The Chinese Academy of Sciences offers new facilities, research funds, and a supportive environment to foster development of academic careers. Salary and research funds are comparable to those in the United States or Europe and negotiable based on background and experience. The successful candidates for Directorship will be expected to form an institutional leadership and management team of excellence and vision and direct externally and internally funded research projects in nutritional sciences. Group leaders will be supported initially by internal funds to establish new research groups and initiate new projects. Evaluation of applications will begin in January 2002 and all application material must be sent to the following address. Applicants must hold a Ph.D. or equivalent degree. A letter of application, curriculum vitae, copies of representative publications, a statement detailing current nutritional research and future plans, and three letters of recommendation should be addressed to:

**Ms. Zhifen Chen**

**Shanghai Institutes for Biological Sciences**

**Chinese Academy of Sciences**

**319 Yue-Yang Road**

**Shanghai 200031 China**

**Telephone: 021-64317485**

**FAX: 021-64338347**

**E-mail: [zhfchen@sibs.ac.cn](mailto:zhfchen@sibs.ac.cn)**

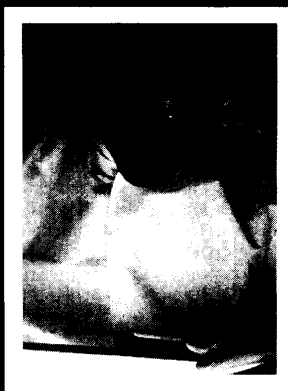
### DIVISION OF VECTOR-BORNE INFECTIOUS DISEASES

#### National Center for Infectious Diseases Centers for Disease Control and Prevention

The Centers for Disease Control and Prevention is seeking outstanding candidates for a Medical Officer, Epidemiologist, or Microbiologist in the Bacterial Zoonoses branch, Division of Vector-Borne Infectious Diseases, located in Fort Collins, Colorado. The incumbent will serve as Chief of the branch and will provide guidance to the medical and scientific staff. Individual will also serve as a Lead Scientist and nationally and internationally recognized technical authority in the field of surveillance, laboratory diagnosis, treatment, prevention, and control of vector-borne bacterial zoonotic diseases. Qualifications: Medical Officer/M.D. or equivalent degree with expertise in entomologic, epidemiologic, and microbiologic aspects of vector-borne bacterial zoonoses; Epidemiologist/Microbiologist (Ph.D. is preferred with expertise as described above). Salary is equivalent to an **ASSOCIATE or FULL PROFESSOR** commensurate with experience. Instructions for applying will be available in January 2002 at **websites: <http://www.cdc.gov>, <http://www.usajobs.opm.gov>** or by calling the CDC Job Information Center at **Telephone: 770-488-1725** or Fort Collins Human Resources at **Telephone: 970-221-6427.**

*CDC is an Equal Opportunity Employer and provides a smoke-free environment.*

**RESEARCH ASSOCIATE** in biomedical engineering sought to support Web-based research resource and to conduct research in signal processing, complex database design, and Web-based data archiving. Required: Ph.D. in biomedical engineering or related field; strong publication record in advanced biomedical signal processing and pattern recognition; three years of experience in software development included. C/C++, Linux, X Window System, networking (include firewall and VPN design), and Web server application programming; expertise in cardiovascular physiology, SQL, and relational databases. Salary: \$40,000 plus benefits. Reply to: **Professor Roger Mark, Cardiology Division, Beth Israel Deaconess Medical Center, 330 Brookline Avenue, Boston, MA 02215. FAX: 617-258-7859; e-mail [rmark@caregroup.harvard.edu](mailto:rmark@caregroup.harvard.edu).**



# Postdoctoral Opportunities 1

A *Science* Advertising Supplement

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## POSITIONS OPEN

MacroChem Corporation, a leading transdermal drug delivery technology company, has openings for the following positions:

**SENIOR BIOANALYTICAL ASSAY SCIENTIST** with a minimum of five years of work experience in formulating, developing, validating, and using a variety of assays to study drugs and their metabolites. This position requires a Ph.D. in analytical chemistry or in a related biochemical science and extensive experience in assaying for small molecules, peptides, or proteins in complex biological matrices. Familiarity with GC, HPLC, and MS a must. A working knowledge of immunoassays or NMR will be helpful and previous supervisory experience is a strong plus.

**SENIOR DRUG DELIVERY/FORMULATION SCIENTIST** with five to eight years of industry experience in drug formulation and delivery. This position requires Ph.D. in pharmaceutical chemistry, industrial pharmacy, or a related chemical discipline. Applicants with Pharm.D. plus eight years of industrial experience will be considered. Extensive experience in developing novel transdermal, intranasal/pulmonary, or transcutaneous drug formulations and demonstrated successes in *in vivo* systems are required. Applicants must have strong verbal and written communication skills. Familiarity with different preclinical and clinical models to test drug delivery and previous supervisory experience are strong pluses.

Applicants with appropriate qualifications should send their résumé to:

Thomas C. K. Chan, Ph.D.  
Vice President, Research and Technology  
MacroChem Corporation  
110 Hartwell Avenue  
Lexington, MA 02421  
FAX: 781-862-4338  
E-mail: kstordy@macrochem.com

## TENURE-TRACK FACULTY POSITION GENOMIC MEDICINE PROGRAM Institute of Biomedical Sciences Academia Sinica, Taiwan

Academia Sinica in Taipei is establishing a Genomics/Proteomics Center to facilitate research in genomics medicine and drug discovery, proteomics and bioinformatics, and to promote the development of biotechnology. The research programs will be supported by the high-throughput and state-of-the-art core facilities for genotyping/sequencing, proteomics/structural biology, and high-performance computation and bioinformatics. As a part of this new initiative, we are expanding our genomic medicine program and are seeking well-qualified applicants with strong background and interests in the following areas of research: gene mapping, mouse genetics, gene therapy, bioinformatics, genome technology, cancer genomics, proteomics, and stem cell biology. Individuals with an advanced degree (Ph.D. or M.D. or M.D./Ph.D.) who have completed postdoctoral training and have demonstrated productivity are encouraged to apply. Successful candidates will be expected to develop a vigorous, competitive, and interactive research program. Applications accompanied by curriculum vitae with bibliography, a statement of research interests, and three reference letters should be sent to: Dr. S. T. Lee, Chairperson, Recruitment Committee, Institute of Biomedical Sciences, Academia Sinica, Taipei 11529 Taiwan ROC. For details, see our website: <http://www.ibms.sinica.edu.tw>.

**RESEARCH ASSOCIATE POSITION** available to study molecular biology of Leydig cells. Recent Ph.D. with experience in molecular biology and/or protein biochemistry required. Send résumé and three references to: Tu Lin, M.D., Professor and Director, Division of Endocrinology, University of South Carolina School of Medicine, Department of Internal Medicine, Medical Library, Room 316, Columbia, SC 29208. E-mail: [lin@med.sc.edu](mailto:lin@med.sc.edu). The University of South Carolina is an Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### ALZHEIMER'S PATHOGENESIS ALZHEIMER'S TREATMENT University of Minnesota

Two NIH-funded **POSTDOCTORAL/RESEARCH ASSOCIATE** positions available immediately for the study of the molecular basis of memory loss in transgenic mouse models of Alzheimer's disease. (1) Mechanisms of memory loss in transgenic mice expressing APP and tau proteins. Approaches will include nucleic acid and protein analyses, molecular histopathological assessments, and spatial reference memory evaluations. Analysis will focus on identifying components of memory loss specific to each protein. (2) Immune, genetic, and pharmacological modulation of memory in transgenic mouse models of Alzheimer's disease. Particular emphasis will be placed on interventions with potential clinical relevance. Candidates should have a background in one of the following: molecular biology, psychology, or molecular neuroscience. Send curriculum vitae and the names of three references to: Karen Hsiao Ashe, Mayo Mail Code Number 295, 420 Delaware Street S.E., Minneapolis, MN 55455. E-mail: [hsiao005@umn.edu](mailto:hsiao005@umn.edu). Equal Opportunity Employer.

### SCIENTISTS

**GROUP LEADER** wanted for biotechnology company in New Haven, Connecticut. Manage and lead group of Project Leaders, Research Scientists, and Laboratory Associates; oversee development, planning implementation, and maintenance of production; formulate production policies and programs; develop labor and capital expenditures budget. Requires Ph.D. in molecular genetics, biochemistry, biological science or closely related field.

Project Leader: development and process improvement of Scientists; specify requirements for workflow and workflow software; sample tracking and result reporting. Requires Ph.D. in biological science, biochemistry, molecular genetics, or closely related field.

Reply to: Human Resource Department, CuraGen Corporation, 555 Long Wharf Drive, New Haven, CT 06511. E-mail: [careers@curagen.com](mailto:careers@curagen.com). Equal Opportunity Employer/Affirmative Action.

### SENIOR SCIENTIST

AmCyt, Inc., a leader in cell/tissue transplantation, is seeking a highly qualified individual to conduct cell biology, molecular biology, and biochemistry research related to the growth and differentiation of pancreatic cells. Contribute to the development cell therapies for the control of diabetes and its complications. Qualifications: Ph.D. in cell biology or related field with a strong publication record and a proven ability to develop and implement robust research strategies. Biotechnology or biopharmaceutical company experience and/or tissue engineering experience highly desirable. AmCyt is privately held and well financed. The company operates in a modern, spacious, and well-equipped facility located in Santa Monica, California. We offer a competitive salary and benefit package. Interested candidates should contact us via e-mail: [hrcode123@amcyte.com](mailto:hrcode123@amcyte.com) or FAX: 310-453-6178.

The American University of Sharjah (website: <http://www.aus.ac.ae>) seeks a Ph.D. Biologist to fill a **FULL-TIME FACULTY** position in the Biology Unit at the Department of Sciences. The successful candidate will participate in instruction and further development of the environmental ecosystems concentration within the new B.S. degree program in environmental sciences. The candidate should be broadly trained in zoology with strengths in environmental and ecological issues relating to marine, freshwater, terrestrial invertebrates, and ichthyology. AUS is currently developing a strong research profile. Faculty are expected to contribute to the research culture of the University and to publish in peer-reviewed journals. E-mail curriculum vitae to e-mail: [chairmaa@aus.ac.ae](mailto:chairmaa@aus.ac.ae) or FAX: 971-6-5585067.

## POSITIONS OPEN

Environmental/analytical or environmental/physical chemistry, University of Alaska Fairbanks, tenure-track position as **ASSISTANT PROFESSOR** of chemistry is available. Teaching will involve undergraduate and graduate courses in environmental and/or analytical or physical chemistry and other courses for which the candidate is qualified. A Ph.D. in chemistry or related discipline is required. Send University of Alaska Fairbanks application; letter of application; résumé; transcripts; a detailed research plan; a statement of teaching philosophy; and three letters of reference by February 28, 2002, to: Professor John Keller, REQ FF20461301 PCN 204613, University of Alaska Fairbanks Human Resources, P.O. Box 757860, Fairbanks, AK 99775-7860. Website: <http://www.uaf.edu/chem>. The University of Alaska is an Equal Opportunity/Affirmative Action Employer and Educational Institution.

A **POSTDOCTORAL POSITION** is available to participate in a study of the cellular defense mechanisms operative in the blood vessel wall during important human disease processes including atherosclerosis and aneurysm formation. Candidates should be interested in the mechanisms of oxidative cell damage and have demonstrated biochemical, molecular, and cell biology expertise. Applicants should send curriculum vitae and the names, addresses, and telephone numbers of three references to: Dr. Paul Boor, Department of Pathology, University of Texas Medical Branch, 301 University Boulevard, Galveston, TX 77555-0609. E-mail: [pboor@utmb.edu](mailto:pboor@utmb.edu). UTMB is an Equal Opportunity/Affirmative Action Employer. Minorities/Females/Disabled/Veterans. Minorities and females are encouraged to apply.

A **POSTDOCTORAL POSITION** is available to work on an exciting research program involving the analysis of role of IN11/hSNF5, a chromatin remodeling protein in HIV-1 replication. The projects involve gene expression analysis using cDNA microarrays, study of nuclear export function, and developing inhibitors of HIV-1. Candidates having experience in the areas of protein chemistry, molecular and cell biology, or HIV virology should send their curriculum vitae and names of three references to: Dr. Ganjam V. Kalpana, Associate Professor, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. E-mail: [kalpana@aecom.yu.edu](mailto:kalpana@aecom.yu.edu). Equal Opportunity Employer.

**POSTDOCTORAL POSITION** in molecular virology. Candidate will use biochemical, biophysical, and enzyme kinetic approaches to define molecular mechanisms of virus assembly. Experience in protein/DNA purification, molecular biology, biochemical/biophysical analysis of macromolecules, and/or detailed enzyme kinetics desired. Please send curriculum vitae and letter of interest to: Carlos E. Catalano, University of Colorado School of Pharmacy, C238, 4200 East Ninth Avenue, Denver, CO 80262. E-mail: [carlos.catalano@uchsc.edu](mailto:carlos.catalano@uchsc.edu). The University of Colorado is committed to Equal Opportunity and Affirmative Action.

A **POSTDOCTORAL FELLOWSHIP** is available to participate in an NIA- and Alzheimer Association-funded study of beta amyloid-mediated impairments in synaptic plasticity. Extracellular, patch clamp, and imaging techniques will be used in transgenic mouse hippocampal slices. A background in electrophysiology is required. Send curriculum vitae and two letters of recommendation to: Dr. Barbara Trommer, Evanston Hospital, 2650 Ridge Avenue, Evanston, IL 60201. E-mail: [btrommer@northwestern.edu](mailto:btrommer@northwestern.edu).



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## IEEE FOUNDATION Journalism Internship at IEEE Spectrum

The Institute of Electrical and Electronics Engineers (IEEE), the world's largest professional technical organization with over 360,000 members worldwide, produces 30 percent of the world's published literature in electrical engineering, computers and control technology. We're proud to be the world's leading publisher in electrotechnology, and want to add you to our success story. IEEE Spectrum ([www.spectrum.ieee.org](http://www.spectrum.ieee.org)), the flagship magazine of the IEEE, is inviting applications for a new internship program in technology journalism.

Internships range from a minimum of three months to a maximum of nine months. The deadline for applications is May 2, 2002. Support of \$2800 per month will be provided to successful candidates. The first internship will begin September 3, 2002.

Successful candidate will work in New York City under the direction of senior editorial staff for a period of at least one academic semester. Qualifications: At least one academic year in a graduate program in science or technology journalism, or an undergraduate background in engineering or science and some editorial and writing experience. Responsibilities: Researching and writing articles for the magazine, attending technical meetings, interviewing engineers. Monthly stipend. To receive an application, contact Nancy T. Hantman via email: [n.hantman@ieee.org](mailto:n.hantman@ieee.org)

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Facility Director  
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Neurodegeneration and Repair (HCNR)

We seek an anatomically oriented neuroscientist or neuropathologist (PhD and/or MD) as Facility Director (non-tenure track) of newly established ATRC, a division of the HCNR Core C—Center for Molecular Pathology. The ATRC provides and facilitates development of tissue-based technology, including Laser Capture Microdissection and tissue microarrays. Facility Director will interact with specimen repositories, coordinate access and usage of resources, perform technical services and assist investigators in analysis of human and animal samples.

Please send CV and 3 references to:  
ATRC

C/o Sharon Melanson, Neurology  
Massachusetts General Hospital  
114 16<sup>th</sup> Street  
Charlestown, MA 02129

*Massachusetts General Hospital and Harvard Medical School are Equal Opportunity Employers. Women and minorities are encouraged to apply.*



## TENURE TRACK - BIOPHYSICS

The Department of Physics at Drexel University seeks an outstanding Theoretical or Computational Biophysicist to complement an established effort in Biological Physics. The appointment, to begin in the Fall of 2002, is expected to be at the Assistant Professor level, though more senior appointments may be considered for appropriate candidates. The Department has 3 experimentalists and 2 theorists in Biophysics and prides itself in its diversity in research. Departmental facilities and expertise in Computational Physics are particularly strong, with extensive parallel computing for research and well-outfitted computational labs for instruction. Intramural interdisciplinary work is also possible with current researchers in the College of Arts and Science, which is launching a major initiative in protein research, with the School of Biomedical Engineering, Science and Health Systems and with MCP-Hahnemann Medical School. The Biophysics group in the Department also has a long tradition of collaborating with numerous academic and pharmaceutical institutions in the Philadelphia region. For more information see <http://www.physics.drexel.edu/hiring>. Applicants should send a Curriculum Vitae, a Plan of Research, Teaching Credentials with a Statement of Teaching Philosophy, and arrange for 3 letters of reference to be sent to: **Biophysics Search Committee, Department of Physics, Drexel University, 3141 Chestnut Street, Philadelphia, PA 19104**. Applications received by January 24, 2002 will receive full consideration.

*Drexel University is an Affirmative Action Equal Opportunity Employer.*

## POSITIONS OPEN



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**VICE PRESIDENT OF RESEARCH AND DEVELOPMENT:** Vice President of Research and Development will lead its assay development programs based on a programmable bead array technology for DNA, protein, and cellular analysis. As a member of the company's management team, the Vice President of Research and Development will provide technical leadership by directing the company's application-driven research and development programs, managing external collaborations, and contributing to strategic planning. Candidates should combine demonstrated technical excellence with a proven track record of leading a research and development organization within molecular diagnostics or related areas. Ph.D. or equivalent in the life sciences and minimum of 10 years of experience.

**POSTDOCTORAL RESEARCH:** Position is immediately available to work on the development of molecular diagnostic assays. A recent Ph.D. in molecular biology or related disciplines with strong background in molecular biology/biochemistry required; experience with genotyping and microarray technologies is preferred.

We offer competitive compensation package. If you would like to contribute to this exciting microarray technology, please send curriculum vitae and names of two references to **e-mail: jobs@bioarrays.com** or **FAX: 732-457-8888**; **website: http://www.bioarrays.com**.

### POSTDOCTORAL POSITIONS ENVIRONMENTAL CARCINOGENESIS

Two Postdoctoral **RESEARCH ASSOCIATE** positions are available to study the role of environmental carcinogens, nutrients-gene interactions, and mechanisms of oxidative damage in breast and colon cancer development. Interested applicants must have a Ph.D. and laboratory background in biochemistry and molecular biology, genetics, or cancer biology. Send curriculum vitae, three letters of recommendation, and a summary of research experience to: **Donato F. Romagnolo, 303 Shantz Building, Department of Nutritional Sciences, The University of Arizona, Tucson, AZ 85721-0038. Telephone: 520-626-9108; e-mail: donato@u.arizona.edu**. Review of materials is ongoing and will continue until positions are filled. *The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer; Minorities/Women/Disabled/Veterans.*

### POSTDOCTORAL POSITIONS Vascular Biology

Two positions are available to study mitogenic signal transduction in vascular cells and its role in vascular disease. One project investigates the mechanism by which *C. pneumoniae* infection stimulates smooth muscle cell growth; the second focuses on hypoxia-induced cell proliferation. Ph.D. or M.D. and experience in cellular or molecular biology required. Both positions are fully funded with the opportunity for self-motivated individuals to seek independent funding and advancement. Please send curriculum vitae and contact information for three references to: **Debbie Beasley, Ph.D., Tufts University New England Medical Center Box 172, 750 Washington Street, Boston, MA 02111. FAX: 617-636-1355; e-mail: dbeasley@lifespan.org**.

**POSTDOCTORAL POSITION** to study molecular systematics and population structure in myxomycetes is available August 2002. This two-year position is funded by a grant from NSF. Applicants must have a Ph.D. in molecular biology, microbiology, or mycology and laboratory experience in applying the techniques of molecular biology to the study of microorganisms. Opportunities will exist for fieldwork in the Neotropics. Interested individuals should contact: **Dr. Steve Stephenson, Department of Biology, Fairmont State College, Fairmont, WV 26554. E-mail: sstephenson@mail.fscwv.edu**.

## POSITIONS OPEN

**POSTDOCTORAL RESEARCH ASSOCIATE, GENETICIST**, U.S. Department of Agriculture (USDA), Agricultural Research Associate (ARS), Ames, Iowa. The incumbent will be involved in a legume genomic project. The project requires combining existing programs into complete analysis suites. The individual will develop a bioinformatics pipeline that will provide DNA sequence alignment, identification of gene variants, and primer prediction in support of a major soybean genomics program. A component of the position is upgrading a major crop genetic database, SoyBase. Position available for a recent Ph.D. with an understanding of molecular genetics. A demonstrated competence in computer programming is beneficial. Two-year appointment with benefits. Salary commensurate with experience (\$43,326 to \$56,322 per year). For information on the position, contact: **Dr. Randy Shoemaker; Telephone: 515-294-6233; e-mail: rcsshoe@iastate.edu**. Applications in response to this advertisement should be sent along with three letters of reference to: **Dr. Randy Shoemaker, G401 Agronomy Hall, Iowa State University, Ames, IA 50011. The USDA is an Equal Opportunity Provider and Employer.**

### POSTDOCTORAL POSITIONS

Immediate Postdoctoral openings are available for highly motivated and creative individuals in the Laboratory of **Bali Balendiran, Ph.D.**, at the City of Hope National Medical Center and Beckman Research Institute. We are interested in the understanding of structure function activity mechanisms of biological molecules. For further information, see: *J. Biol. Chem.* 275:27045-27054, 2000; *J. Biol. Chem.* 275:21587-21595, 2000; *Protein Science* 8:1023-1031, 1999; *PNAS* 94:6880-6885, 1997. Candidates with experience in cloning; expression; purification; characterization; analysis of proteins; and interest in macromolecular crystallography, bioinformatics, and genomics are encouraged to apply. Applications including a cover letter, curriculum vitae, and three letters of recommendation should be sent to: **Ileana Abich, Needleman Building, Room 220, City of Hope, 1500 East Duarte Road, Duarte, CA 91010. FAX: 626-930-5300; e-mail: iabich@coh.org**.

### POSTDOCTORAL POSITIONS CENTER FOR MOLECULAR MEDICINE Maine Medical Center Research Institute

Available immediately to study molecular mechanisms underlying development of paraxial mesoderm and central nervous system in vertebrates using molecular, genetic, and embryological approaches in mouse and *Xenopus* (see *Genes and Development* 14:3204, 2000 and *Dev. Biol.* 222:376, 2000). The successful candidates should have a Ph.D. and experience in molecular biology. Experience with mouse/*Xenopus* embryology and/or gene targeting/transgenic mouse models is preferred. Applicants should send curriculum vitae, a brief statement of research interests, and three references to: **Jeong K. Yoon, Ph.D., Center for Molecular Medicine, Maine Medical Center Research Institute, 81 Research Drive, Scarborough, ME 04074. E-mail: jkyoon@mmc.org. Equal Opportunity Employer.**

### POSTDOCTORAL FELLOW

#### Integrated Ecological Assessment of Streams

Participate in research program at the Patrick Center for Environmental Research at the Academy of Natural Sciences focused on relationships among ecological indicators and environmental conditions (e.g., land use, water quality, and hydrology). Play major role in coordinating and leading an interdisciplinary research team. Suitable candidates will have experience with multivariate analyses of ecological data. Position available beginning spring 2002 contingent on funding. Review of applications begins on February 8, 2002. For details, visit **website: http://www.acnatsci.org/learn/employment.html**. E-mail applications/inquiries to **e-mail: gino@acnatsci.org**.

## POSITIONS OPEN

### CNS IMMUNOLOGY

**POSTDOCTORAL OPENINGS**, Harvard Medical School. New projects in control of B cell traffic or T cell traffic to the CNS. Laboratory interest is in basic control mechanisms and in broad clinical implications (for tumor therapy, MS, neurodegeneration, etc.). Apply by e-mail to: **Dr. Lois A. Lampson; e-mail: lalampson@mediaone.net**.

A **POSTDOCTORAL POSITION** is available immediately in the laboratory of **Michele Carbone**, Loyola University, Chicago, Illinois. Ours is a small but very productive laboratory funded by the NIH and the ACS. In the past seven years, we found that mesothelioma is a tumor in which environmental carcinogens (asbestos and erionite), genetic susceptibility, and SV40, alone or in combination, cause the malignant phenotype. The successful candidate will study the molecular mechanisms of SV40-mediated malignant transformation of human mesothelial cells and the interaction with asbestos and genetic susceptibility. Candidates must have background in molecular and cell biology. Experience in DNA tumor viruses, fiber carcinogenesis, human cell transformation, and immortalization is a plus. Salary: \$26,000 to \$35,000. The laboratory is 10 minutes from Oak Park, a beautiful small town internationally famous for its architecture and 20 minutes from downtown Chicago. Send or FAX curriculum vitae and names of three references (at least one U.S.A. reference) to: **Michele Carbone, M.D., Ph.D., Cardinal Bernardin Cancer Center, Room 205, 2160 South First Avenue, Maywood, IL 60153 U.S.A. FAX: 708-327-3238**.

**ECOLOGIST**, Department of Biology, DePauw University. Three-year term position to begin in August 2002; Ph.D. preferred. To teach introductory courses for majors and nonmajors and advanced courses in ecology and biostatistics. Start-up funding is available to develop research with undergraduates. Exceptional faculty development programs (see **website: http://www.depauw.edu/admin/acadaffairs/facdev.htm**). Submit curriculum vitae, three letters of recommendation, transcripts, and a statement of teaching and research interests to: **Search Committee, Department of Biology, DePauw University, Greencastle, IN 46135**. Review of applications will begin February 28, 2002. Departmental details at **website: http://www.depauw.edu/acad/biology/**. *DePauw University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and members of under-represented groups.*

**POSTDOCTORAL POSITION** available in a highly interactive laboratory environment to study vascular ion channels and mechanisms of myogenic tone in resistance arteries. A strong background in cellular physiology, vascular biology, and/or molecular biology is required. Qualified applicants should e-mail curriculum vitae, brief statement of research interests, and names of three references to: **Joseph Brayden, Ph.D., Department of Pharmacology, University of Vermont College of Medicine, Burlington, VT 05405. E-mail: jbrayden@zoo.uvm.edu. Affirmative Action/Equal Opportunity Employer.**

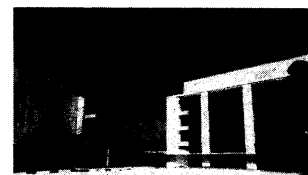
**POSTDOCTORAL SCIENTIST** needed immediately to join a group investigating the regulation of tissue-derived stem cell plasticity and commitment using genomic expression analysis (*Differentiation* 68:254-269) and *in vivo* differentiation assays. Previous experience with microarray analysis and/or mammalian expression systems is desirable. Applicants should send a copy of their current curriculum vitae and three references to: **Dr. Leslie E. Rogler, Ph.D., Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. E-mail: roglers@aecom.yu.edu. Equal Opportunity Employer.**



# Gene Vectors EuroLabCourse

*First multidisciplinary theoretical and practical training course in vectorology*

**April 14 - 27, 2002 - Genopole®, EVRY - France**



Gene Therapy Vectors currently used in Gene Therapy clinical trials still need major improvements. Progresses in the understanding of their biology as well as reproducible methods for their preparation are much needed.

Our inaugural multidisciplinary *EuroLabCourse* will include theoretical and practical training in vector production, lectures on the ethical and legal issues related to gene transfer, and on how bench-grade vectors can be transformed into medicine by industries. Seminars on viral and synthetic vectors and a biotech forum will gather international scientists from academia, industry and regulatory agencies. In addition, 30 young European researchers selected on the basis of scientific excellence will receive training on synthetic and viral vectors.

The *EuroLabCourse* will be held at the Genethon-Genocentre laboratory-conference complex, located in the Genopole®/Evry, the largest genome research park in France.

## Events:

- 1. April 14-16 : Theoretical training on gene vectors** : Lectures on non-viral, adenoviral, parvoviral, lentiviral and retroviral vectors.
- 2. April 17 : Gene therapy: development processes and regulatory issues** : Lectures from major representatives from EU regulatory agencies.
- 3. April 18 : Biotechnological and industrial developments for innovative therapeutic strategies** : Parallel exhibit sessions of biotechnology companies.
- 4. April 19-27 : Practical training on gene vectors** : Lab course on production, purification and quality control (*limited to 30 participants*).

The participation is open to everyone from academic/non-profit and industrial institutions. The priority will be given to young researchers (under 35 years) from EU members or associated States. Fellowships covering travel and living expenses will be awarded to selected participants.

**Contact : Mauro Mezzina**, Scientific Coordinator,  
Genethon III,  
1bis, Rue de l'Internationale, BP 60 - 91002 Evry, France  
phone: 33 1 69 47 10 23  
fax: 33 1 69 47 19 46  
e-mail : vecteuronet@genethon.fr  
web site: [www.genethon.fr/vecteuronet](http://www.genethon.fr/vecteuronet)

## Deadlines:

Submission of applications ..... **January 31, 2002**  
Registration and  
Reservation of exhibit spaces..... **February 28, 2002**



## SYMPOSIA

### Hepatic Inflammation and Immunity 2002

**McLaughlin Symposia on Infection and Immunity  
The University of Texas Medical Branch**

Galveston, Texas  
March 21-24, 2002

**Organizers:** Ian Nicholas Crispe, Christopher Walker and  
Stanley M. Lemon  
(*In conjunction with the 2002 U.S.-Japan Joint Hepatitis  
Panel Meeting*)

This multidisciplinary meeting will examine unique aspects of the intrahepatic immune system and its role in health and disease, focusing on six hypotheses:

- (1) *That the distinctive liver architecture, unusual resident liver lymphocytes and trafficking pattern of leukocytes throughout the organ contribute to its unusual pattern of tolerance, immunity and pathology* (J. Grisham, K. Matsushima, C. O'Farrelly, A. Zlotnik, A. Hamann, M. Salmi);
- (2) *That liver pathogens use multiple complementary strategies to avoid T cell immunity* (F. Chisari, G. Dennert, G. Kersh, P. Klenerman, B. Rehmann, C. Walker);
- (3) *That the liver induces T cell tolerance by killing T cells* (N. Crispe, P. Bertolino, S. Qian, P. Knolle, H.J. Gassell);
- (4) *That death receptors on liver cells are instrumental in both hepatocyte injury and regeneration* (S. Nagata, M. Koziel, A.M. Diehl);
- (5) *That liver lymphocytes control liver regeneration and fibrosis* (T. Abo, S. Friedman, D. Brenner, D. Topham);
- (6) *That natural lymphocytes determine the outcome in intrahepatic immunity* (M. Kronenberg, T. Salazar-Mather).

A poster session is planned. For further information and registration details, see <http://microbiology.utmb.edu/> or contact: **S.M. Lemon, Dept. of Microbiology & Immunology, University of Texas Medical Branch, Galveston, TX 77555-1019; FAX: 1-409-772-5065 or email, [msusman@utmb.edu](mailto:msusman@utmb.edu)**

## GRANTS

### What's on your mind?

#### We're looking for a few good ideas.

Invitrogen announces a Research Tools Development Grant Program for 2002. As a leader in the life sciences industry, we want to promote discovery as well as enable it. We're looking for a few good ideas to sponsor, and we'd like to hear from you.

If you have an idea that you'd like to see become an industry standard, let us know. For the first quarter of 2002, we're looking for innovations in enzymes for molecular and cell biology, including labeling technologies, gene reporter systems, cloning, expression, and amplification. Other quarterly subjects will focus on different areas, such as separation, functional analysis, and detection. *Individual grants range from \$25,000 to \$100,000 per year.*

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# Clinical Research Grants

### Clinical Research Fellowship Program for Medical Students

The **Doris Duke Clinical Research Fellowship Program for Medical Students** is designed to encourage medical students to pursue careers in clinical research by giving exceptional students the opportunity to take a year to experience clinical research first hand at the following medical schools: University of California-San Francisco School of Medicine, Washington University School of Medicine, The University of Iowa College of Medicine, Harvard Medical School, University of North Carolina Medical School at Chapel Hill, College of Physicians & Surgeons at Columbia University, The University of Texas Southwestern Medical Center at Dallas, Yale University School of Medicine, The Mount Sinai School of Medicine and University of Pennsylvania School of Medicine. Fellows are currently being recruited to begin fellowships in July 2002. To apply, log on to our web site at: <http://ddcf.aibs.org/crf2000/index.asp>

### 2001 Distinguished Clinical Scientist Award for "Bench to Bedside" Research

The following seven outstanding mid-career physician-scientists have received a \$1.5 million grant to support their research teams and foster translational clinical research:

**Nina Bhardwaj, MD, PhD**  
The Rockefeller University  
*"Enhancement of anti-HIV Immunity"*

**Brian J. Druker, MD**  
Oregon Health & Science Center  
*"Molecularly Targeted Therapies for Leukemia"*

**Steven A.N. Goldstein, MA, PhD, MD**  
Yale University School of Medicine  
*"Cardiac Ion Channel Mutations in Sudden Childhood Death"*

**Dianna M. Milewicz, MD, PhD**  
The University of Texas Health Science Center at Houston  
*"Genetic Basis of Aortic Aneurysms and Dissections"*

**Charles L. Sawyers, MD**  
UCLA School of Medicine  
*"Kinase Inhibitor Therapy for Cancers with Aberrant PTEN/Akt Pathway Signaling"*

**Margaret A. Shipp, MD**  
Harvard University, Dana-Farber Cancer Institute  
*"Rational Risk-Related Treatment Strategies in Diffuse Large B-Cell Lymphoma"*

**Robert F. Siliciano, MD, PhD**  
The Johns Hopkins University School of Medicine  
*"Latent Reservoirs for HIV-1: Basic Mechanisms and Clinical Significance"*

## NATIONAL INSTITUTES OF HEALTH Undergraduate Scholarship Program

### Science-Research Scholarship Available

The **UGSP** is sponsored by the National Institutes of Health (NIH), the Federal Government's premier biomedical research and research training agency. NIH offers scholarships to qualified students who are committed to a career in biomedical research.

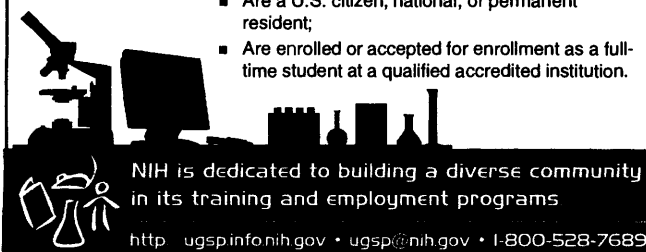
Scholarships of up to \$20,000 per year support tuition, educational, and qualified living expenses (room, board, transportation) while students pursue an undergraduate degree.

For each award year, scholars work 10 weeks with salary/benefits in our research laboratories in Bethesda, Maryland. They are assigned mentors, participate in developmental and science enrichment seminars, and are provided with housing and transportation. After graduation, scholars participate in year-long paid research fellowships for each year of their award.

### THIS IS A SPECIAL OPPORTUNITY FOR SPECIAL STUDENTS!

#### Advise students to apply if they:

- Are committed to a career in biomedical research;
- Are from a disadvantaged background;
- Have a GPA of at least 3.5 or are in the top 5 percent of their class;
- Are a U.S. citizen, national, or permanent resident;
- Are enrolled or accepted for enrollment as a full-time student at a qualified accredited institution.



## SYMPOSIA

### 8<sup>th</sup> National Symposium

#### BASIC ASPECTS OF VACCINES

May 1 - 3, 2002

To be held at the Uniformed Services  
University of the Health Sciences,  
Bethesda, Maryland



Sponsored by the Walter Reed Army Institute of Research

<http://wrair-www.army.mil/symposia/dmbsym.htm>

#### Regulatory Mechanisms

James P. Allison, Chair  
Arlene Sharpe  
Ethan Shevach  
David Raulet

#### Adjuvants

Steve Reed, Chair  
Eyal Raz  
Alan Aderem  
Robert Seder

#### Cancer Vaccines

Olivera Finn, Chair  
Martin Cheever  
Esteban Celis  
Augusto Ochoa

#### Therapeutic Vaccines against Alzheimer's and Other Chronic Diseases

John Schiller and  
David Morgan, Co-Chairs  
Martin Kast  
David Holtzman

#### Mechanisms of Antibody-Mediated Therapy and Protection

Neal Nathanson, Chair  
John Mascola  
Diane Griffin  
Richard Wyatt

#### EVENING WORKSHOP ON VAC- CINES FOR BIOTERRORISM DEFENSE - Arthur Friedlander, Chair

#### FEATURED BANQUET SPEAKER Stephen Hoffman

Competitive scholarships available for students, postdocs and junior scientists! Deadline for scholarship application is March 15, 2002.

Posters accepted, abstract deadline is March 31, 2002.

For information: tel: 301-319-9462 fax: 301-319-9035  
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Inaugural CNIO  
Symposium on Basic  
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6-9 February, 2002  
Madrid



Spanish National Cancer Center

## CNIO Cancer Conferences 2002

Detailed information and  
programme:

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Applications are now closed  
though we are preparing a  
stand-by list, in the instance  
of last minute cancellations.  
Interested parties should send  
a short curriculum vitae  
(including a list of the main  
publications), and a brief  
description of current  
research (maximum 1 page),  
to Beatriz Ferreiro:  
e-mail: [symposium@cnio.es](mailto:symposium@cnio.es),  
as soon as possible.

We are delighted to announce our 2002 calendar of cancer  
conferences related to both basic and applied cancer research:

### CANCER EPIGENETICS: DNA METHYLATION AND CHROMATIN

Madrid, May 29-31, 2002

CHAIRS: Dr. Manel Esteller and Dr. Stephen B. Baylin

### THE CELL CYCLE AND CANCER

Madrid, September 30 – October 2, 2002

CHAIRS: Dr. Marcos Malumbres, Dr. Charles Sherr, and Dr. Jiri Bartek

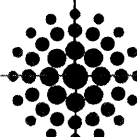
### MECHANISMS OF INVASION AND METASTASIS

Madrid, November 18-20, 2002

CHAIRS: Dr. Joan Massagué and Dr. Richard Hynes

**Participants:** Places will be limited to a maximum of 25 for each conference, no registration fee required.  
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## GRANTS



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A Focus on the Science  
2002

Application Deadline:  
March 15, 2002

**Call for Proposals**  
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Pfizer Inc is pleased to announce the 2002 deadline for the ARA Program: A Focus on the Science. The ARA Program represents a unique opportunity for Pfizer to continue its commitment to supporting research at academic institutions throughout the United States.

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**Application Deadline:** March 15, 2002

**Start of Award:** On or about July 1, 2002

For more information about the ARA Program, contact:

Grant Coordinator  
The ARA Program  
208 East 51st Street, PMB 173  
New York, NY 10022-6501  
Fax: 212.308.1191  
E-mail: [ARAAwards@mindspring.com](mailto:ARAAwards@mindspring.com)



## POSITIONS OPEN

### FACULTY POSITION

Botanist (Recruitment Code Number 3988). The Biological Sciences Department at California Polytechnic State University is seeking a Botanist for a tenure-track position at the ASSISTANT PROFESSOR rank beginning September 2002. Primary teaching responsibilities will be introductory botany courses for majors and for nonmajors. Other responsibilities may include upper-division and/or graduate courses appropriate to background and training. This position is open to candidates from a variety of specialty areas including but not limited to the following: science education, genetics, restoration ecology, biotechnology, phytoremediation, and/or physiological ecology. The successful candidate must have a strong commitment to teaching, curriculum development, and implementation of a student-centered research program.

Ph.D. or equivalent required at time of hiring. Postdoctoral or equivalent experience desirable. Salary is commensurate with qualifications and experience. Review of applications will begin February 28, 2002. Applications received after February 28, 2002, may still be considered.

Applicants should submit curriculum vitae, statement of teaching philosophy, statement of professional goals, Cal Poly Faculty Applicant Information form, and arrange to have official graduate transcripts and three letters of recommendation sent to: **Dr. V. L. Holland, Chair, Biological Sciences Department, California Polytechnic State University, San Luis Obispo, CA 93407.** Please refer to Recruitment Code Number 3988 on all correspondence. Telephone: 805-756-5241 or e-mail: [rwagner@calpoly.edu](mailto:rwagner@calpoly.edu) to request a Cal Poly Faculty Applicant Information form. For more information, visit our website: <http://www.bio.calpoly.edu>.

Cal Poly is strongly committed to achieving excellence through cultural diversity. The University actively encourages applications and nominations of women, persons of color, applicants with disabilities, and members of other underrepresented groups. Affirmative Action/Equal Employment Opportunity.

### POSTDOCTORAL POSITION AVAILABLE

We are seeking a Ph.D. with an interest in intestinal stem cell biology to join our project in attempting to identify these genes and determine their role in colon biology. Using a microarray technique, we have identified a number of novel genes that are expressed in the proliferative compartment of the colonic crypt. The identity of many of these genes is still unknown as they are ESTs. It is possible that some of these genes are markers for the stem cells of the colonic crypt.

Applicants for this postdoctoral position must have extensive molecular biology experience and be familiar with cell culture techniques. Salary and benefits will be commensurate with experience and according to Vanderbilt University guidelines for Postdoctoral Fellows and Research Associates. Interested persons should send a cover letter describing research interests and career goals, curriculum vitae, and three references to: **Dr. Robert Whitehead, Department of Medicine, Division of Gastroenterology, Vanderbilt University Medical Center, 1161 21st Avenue South, CC-2218 MCN, Nashville, TN 37232-2583 U.S.A.** E-mail: [robert.whitehead@mcmail.vanderbilt.edu](mailto:robert.whitehead@mcmail.vanderbilt.edu); FAX: 615-343-1591. Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.

A POSTDOCTORAL POSITION is available immediately to study regulation of the general transcription machinery in yeast. Current projects include studying a regulator of TBP and a cyclin-dependent protein kinase that phosphorylates the Pol II CTD. For more information, visit our laboratory website: <http://steelhead.aecom.yu.edu>. Please provide curriculum vitae and the names of three references to: **Dr. Greg Prelich, Molecular Genetics, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461.** E-mail: [prelich@aecom.yu.edu](mailto:prelich@aecom.yu.edu). Equal Opportunity Employer.

## POSITIONS OPEN



### POSTDOCTORAL ASSOCIATE

Seeking individual who will be responsible for conducting research in an NIH-funded laboratory headed by **Dr. Kapil Bhalla**, Scientific Director of the Comprehensive Breast Cancer Program, which involves cloning, transfection, and functional analyses of genes that regulate the cell cycle and apoptosis of human cancer cells. Ph.D. in biology, biological sciences, life science, or other related field as well as interest in cancer research. Experience in gene expression by microarrays, evaluation of protein biochemistry with 2-D gels, with animal models, the yeast two-hybrid system, and tissue culture is desirable. Excellent English skills (both written and verbal) required. Outstanding research environment and competitive compensation. Send curriculum vitae and the names of three references to: **Lisa Sellers, Management Assistant, Clinical Investigations, H. Lee Moffitt Cancer Center and Research Institute, 12902 Magnolia Drive, MRC-3E, Tampa, FL 33612.** E-mail: [sellerel@moffitt.usf.edu](mailto:sellerel@moffitt.usf.edu); website: <http://www.moffitt.usf.edu>.

The Division of Endocrinology and Metabolism at the University of Michigan announces an open position at the rank of LECTURER (nontenure track) to expand a program in human GH physiology encompassing normal regulation of GH secretion, GH deficiency, and acromegaly. Applicant must be Board certified in endocrinology/metabolism, have prior experience in clinical research as evidenced by first-author publications in peer-reviewed journals, and possess a track record of external grant support. Additional requirements include formal training in clinical research and design, expertise in the use of pulsatility algorithms, and prior experience in conducting human physiology studies in a clinical research center. Salary is negotiable and the individual will be expected to successfully apply for external support. Send curriculum vitae and letter of inquiry to FAX: 734-936-9240 or to e-mail: [abarkan@umich.edu](mailto:abarkan@umich.edu) (attention: Ariel L. Barkan, M.D.) by February 28, 2002.

Several POSTDOCTORAL POSITIONS are available to study the Notch signal transduction pathway. These positions require a strong background in either biochemistry and/or molecular biology. (1) Biochemical dissection of the Notch signaling mechanism in neoplastic transformation. (2) Identification and characterization of genes involved in progression of Notch-induced leukemogenesis. (3) Elucidation of DSL (Notch-ligands) function in epithelial and lymphoid growth and differentiation. Send curriculum vitae and references to:

**Anthony J. Capobianco, Ph.D.**  
University of Cincinnati Medical Center  
Department of Molecular Genetics  
231 Albert Sabin Way  
Cincinnati, OH 45267-0524  
E-mail: [tony.capobianco@uc.edu](mailto:tony.capobianco@uc.edu)

### POSTDOCTORAL POSITIONS VASCULAR BIOLOGY Harvard Institutes of Medicine

Our laboratory is interested in understanding the molecular mechanisms required for normal blood vessel development, angiogenesis, and vascular inflammation with a particular focus on the role of specific transcription factors in these processes. A broad variety of experimental techniques and animal models is being used to investigate these areas. Our website: <http://www.bidmc.harvard.edu/oettgenlab>. Interested candidates should forward curriculum vitae and three references to: **Dr. Peter Oettgen, Harvard Institutes of Medicine, 4 Blackfan Circle, Boston, MA 02115.** E-mail: [joettgen@caregroup.harvard.edu](mailto:joettgen@caregroup.harvard.edu); FAX: 617-975-5299.

## POSITIONS OPEN

### POSTDOCTORAL FELLOW Islet and Cell Processing Laboratory Northwest Tissue Center

A Postdoctoral Fellow position is available to investigate the use of pancreatic islets to treat Type I diabetic patients. The Islet and Cell Processing Laboratory is part of the Northwest Tissue Center (a division of the Puget Sound Blood Center and Program) and is only one of 10 islet isolation centers in the world participating in a multicenter clinical trial to transplant islets. In addition to participating in islet isolation events, the successful candidate will conduct independent research focusing on strategies to improve islet isolation and culturing techniques. Experience in tissue culturing, flow cytometry, and animal studies preferred. Requirements include a Ph.D. degree in cell biology, microbiology, or related field. Full-time position with schedule flexibility required. Salary is commensurate with experience.

Qualified candidates should send curriculum vitae with cover letter referencing Position Number SC3538 to: **Human Resources, Puget Sound Blood Center and Program, 921 Terry Avenue, Seattle, WA 98104-1256.** E-mail: [humanresources@psbc.org](mailto:humanresources@psbc.org).

The Puget Sound Blood Center and Program is an Equal Employment Opportunity/Affirmative Action Employer dedicated to workforce diversity.

### DEPARTMENT OF DERMATOLOGY Division of Cutaneous Immunology and Oncology Brigham and Women's Hospital Harvard Medical School

POSTDOCTORAL FELLOWSHIPS are available immediately in the following areas: dendritic cell trafficking, immunobiology of cutaneous T cell lymphoma, biology of the IL-1 family of molecules in skin, molecular mechanisms of cutaneous lymphocyte homing, T cell homing in graft vs. host disease, pathophysiology of T cells in psoriasis, keratinocyte senescence, and immortalization. Interested candidates should send their curriculum vitae and the names of at least two references to:

**Thomas S. Kupper, M.D.**  
T. B. Fitzpatrick Professor of Dermatology  
Harvard Medical School  
Director, Center for Cutaneous Oncology  
Dana-Farber Cancer Institute  
Chairman, Department of Dermatology  
Dermatologist-in-Chief  
Brigham and Women's Hospital  
Telephone: 617-525-5550  
FAX: 617-525-5571  
E-mail: [tskupper@rics.bwh.harvard.edu](mailto:tskupper@rics.bwh.harvard.edu)

### TWO POSTDOCTORAL POSITIONS Plant Evolutionary Genomics

Two Postdoctoral positions are available to study gene expression in basal angiosperms and gymnosperms as part of a multiinstitutional, NSF-funded plant genome research project investigating the evolution of flowers. The work at University of Alabama will involve development and implementation of high-throughput, *in situ* RT-PCR assays (see *Plant Physiol.* 123:1203) for a variety of plant species. Applicants should be interested in evolutionary aspects of plant development and hold a Ph.D. in plant molecular biology or a related discipline. Experience with *in situ* hybridization techniques is preferred. Additional opportunities exist for collaborative research with **Dr. Victor Albert** at the University of Oslo, Norway. Applicants should send a cover letter, curriculum vitae, copies of up to five relevant publications, and contact information for three references to: **Dr. David G. Oppenheimer, Department of Biological Sciences, University of Alabama, 301 Biology, Tuscaloosa, AL 35487-0344.** E-mail: [oppenhei@bama.ua.edu](mailto:oppenhei@bama.ua.edu). The University of Alabama is an Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### ELECTROPHYSIOLOGY OF ATP-GATED CHANNELS

Saint Louis University, a Catholic Jesuit Institution dedicated to education, research, and health care, has a **POSTDOCTORAL POSITION** available immediately in the laboratories of Drs. **Terrence M. Egan** and **Mark M. Voigt** to study the molecular mechanisms of ATP-gated signal transduction. We use electrophysiology and molecular biology to characterize P2X receptors expressed in native and heterologous systems with the goals of understanding (1) how ATP controls current flow across cell membranes and (2) the physiological roles that these receptors play in purinergic signaling. More information can be found at website: <http://medschool.slu.edu/pharmphys/fac/egan/egan.shtml>. Prior experience with whole cell or single channel patch clamp techniques is preferred. To apply, submit a cover letter, curriculum vitae, and bibliography to: **Dr. Terrence M. Egan** (e-mail: [egantm@slu.edu](mailto:egantm@slu.edu)) or **Dr. Mark M. Voigt** (e-mail: [voigtm@slu.edu](mailto:voigtm@slu.edu)), Department of Pharmacological and Physiological Science, Saint Louis University School of Medicine, 1402 South Grand Boulevard, St. Louis, MO 63104 U.S.A. Saint Louis University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

### POSTDOCTORAL POSITION Climate Change

The Woodrow Wilson School of Public and International Affairs (WWS) at Princeton University invites applications for a Postdoctoral appointment in the field of climate change with emphasis on problems at the science/policy interface. The successful candidate will work closely with **Dr. Michael Oppenheimer**, the Faculty Director of the WWS Program in Science, Technology, and Environmental Policy. Research interests should be relevant to defining dangerous anthropogenic interference with the climate system. Applicants must have completed a Ph.D. in atmospheric or oceanic sciences, glaciology, or in a topic relating to biogeochemical cycles. A competitive salary commensurate with experience and excellent benefits will be offered. The initial appointment is for one year with the possibility of extension to two or more years. Application deadline is April 30, 2002. Please send expressions of interest and curricula vitae to: **Marianne Goldfarb**, Climate Change/Science and Policy Postdoctoral Search, Woodrow Wilson School of Public and International Affairs, Princeton University, Princeton, NJ 08544-1013. Princeton University is an Equal Opportunity/Affirmative Action Employer.

### RESEARCH ASSOCIATE/ POSTDOCTORAL POSITION Signal Transduction

A position is available to study endothelin-induced intracellular signaling pathways. Requirements include a Ph.D. or M.D. degree and a sound background in biochemistry, cell biology, and molecular biology. Interested candidates should send their curriculum vitae plus names and telephone numbers of three references to: **Andrey Sorokin**, Ph.D., and **Michael J. Dunn**, M.D., Medical College of Wisconsin, CVRC, 8701 Watertown Plank Road, Milwaukee, WI 53226. E-mail: [sorokin@mcw.edu](mailto:sorokin@mcw.edu).

**POSTDOCTORAL POSITION** to investigate the mechanisms of action of insulin and growth factors (see website: <http://www.med.virginia.edu/medicine/basic-sci/pharm/lawrence.html>). The laboratory uses molecular and biochemical methods to investigate signal transduction pathways involved in the control of cell growth. Foreign and domestic Ph.D.s will be considered. Send résumé to: **Dr. John C. Lawrence**, Department of Pharmacology, P.O. Box 800735, University of Virginia, Charlottesville, VA 22908-0735. E-mail: [jcl3p@virginia.edu](mailto:jcl3p@virginia.edu). UVA is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

A **POSTDOCTORAL POSITION** is available immediately to investigate mechanisms of host resistance against an opportunistic pathogen (*Toxoplasma gondii*) using murine models. The NIH-funded project includes studies of the role of cellular immunity, cytokines, adhesion molecules, and genetic regulation of the immune responses. Ph.D. and/or M.D. with strong background in immunology and cell biology required with preference for experience in molecular biology. Send curriculum vitae and names and addresses of three references to: **Dr. Yasuhiro Suzuki**, Center for Molecular Medicine and Infectious Diseases, Virginia Tech, 1410 Prices Fork Road, Blacksburg, VA 24061. E-mail: [ysuzuki@vt.edu](mailto:ysuzuki@vt.edu). Review of applications will begin on November 15, 2001, and continue until a suitable candidate is found. Virginia Tech has a strong commitment to the principle of diversity and, in that spirit, seeks a broad spectrum of candidates including women, minorities, and people with disabilities. Individuals with disabilities desiring accommodations in the application process should notify **Dr. Suzuki** as noted above or at TTY: 1-800-828-1120.

### TWO POSTDOCTORAL POSITIONS Laboratory for Free Radical Research Graduate Center for Toxicology

The Center is a research-oriented, multidisciplinary graduate program that ranks among the best in the nation. Applications are invited from candidates with hands-on experience in molecular biology techniques, particularly in transcription regulation or in biochemical and molecular biology studies in animals. Successful candidates will participate in ongoing research related to the regulation of MnSOD expression and its role in cancer therapy.

Contact: **Dr. Daret St. Clair**, GCT, 363 HSRB, University of Kentucky, Lexington, KY 40536. Telephone: 859-257-3956; FAX: 859-323-1059; e-mail: [dstcl00@pop.uky.edu](mailto:dstcl00@pop.uky.edu).

NIH-funded **POSTDOCTORAL POSITIONS** available to study membrane-mimetic and glycosaminoglycan-mimetic systems relevant to artificial organ design and tissue engineering. The successful candidate will interact with an interdisciplinary group of Biologists, Chemists, and Engineers. Ph.D. degree with training in biochemistry and cell biology required. Background in any of the areas of macrophage biology, wound healing, coagulation biochemistry, and/or enzyme kinetics is desirable. Send curriculum vitae to: **Elliot L. Chaikof**, M.D., Ph.D., Emory University, Department of Surgery, 1639 Pierce Drive, 5105 WMB, Atlanta, GA 30322. FAX: 404-727-3660. E-mail: [echaiko@emory.edu](mailto:echaiko@emory.edu).

## AWARDS

### THE LOUIS AND ARTUR LUCIAN AWARD FOR RESEARCH IN CIRCULATORY DISEASES

Each year a committee from the McGill University Faculty of Medicine confers the Louis and Artur Lucian Award (\$50,000 Canadian) for outstanding research in the field of circulatory diseases. The purpose of this award is to honor a scientific Investigator or group of Investigators whose contribution to knowledge in this field is deemed worthy of special recognition. The successful recipient is invited to spend a short period of time at McGill University to give a formal Lucian Lecture and to have interchanges with members of the McGill community. Submissions should be received on or before March 1, 2002.

For information and to request a nomination form, please check the following website: <http://www.mcgill.ca/LucianAward> or contact:

**Dr. René P. Michel**  
Secretary

The Louis and Artur Lucian Award Committee  
McGill University  
Department of Pathology  
3775 University Street  
Montreal, Quebec H3A 2B4 Canada  
Telephone: 514-398-7192, Extension 00502  
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## COURSES AND TRAINING

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For more information, contact: **Maura Hofstadter**; Telephone: 949-824-3993; e-mail: [mhofstad@uci.edu](mailto:mhofstad@uci.edu).

## FELLOWSHIPS

**POSTDOCTORAL FELLOWSHIPS**, University of Wisconsin–Madison. Immediate openings for several Postdoctoral Fellows trained in cell and molecular immunology to study posttranscriptional cytokine gene regulation in asthma (see *JL*, 166:4658 and 167:5970, 2001). The project is NIH funded in an excellent training environment. Madison is a wonderful place to live. Please send curriculum vitae, the names of three references, and a brief research statement to: **Dr. J. S. Malter**, K4/812–CSC, UWHC, 600 Highland Avenue, Madison, WI. E-mail: [jmalter@facstaff.wisc.edu](mailto:jmalter@facstaff.wisc.edu).

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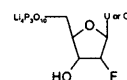
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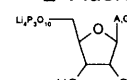
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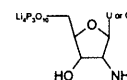
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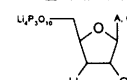
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## NEW ELISpot Kits

Human	Mouse
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# ELISpot Kit

ELISpot (enzyme-linked immunospot) detects individual cells secreting specific cytokines or other antigens. These assays employ the quantitative sandwich enzyme-linked immunosorbent assay (ELISA) technique.

## Kits Contents

- Cytokine-specific Microplate
- Detection Antibody Concentrate
- Streptavidin-AP Concentrate
- Wash Buffer
- Dilution Buffers
- BCIP/NBT Chromogen
- Positive Control

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