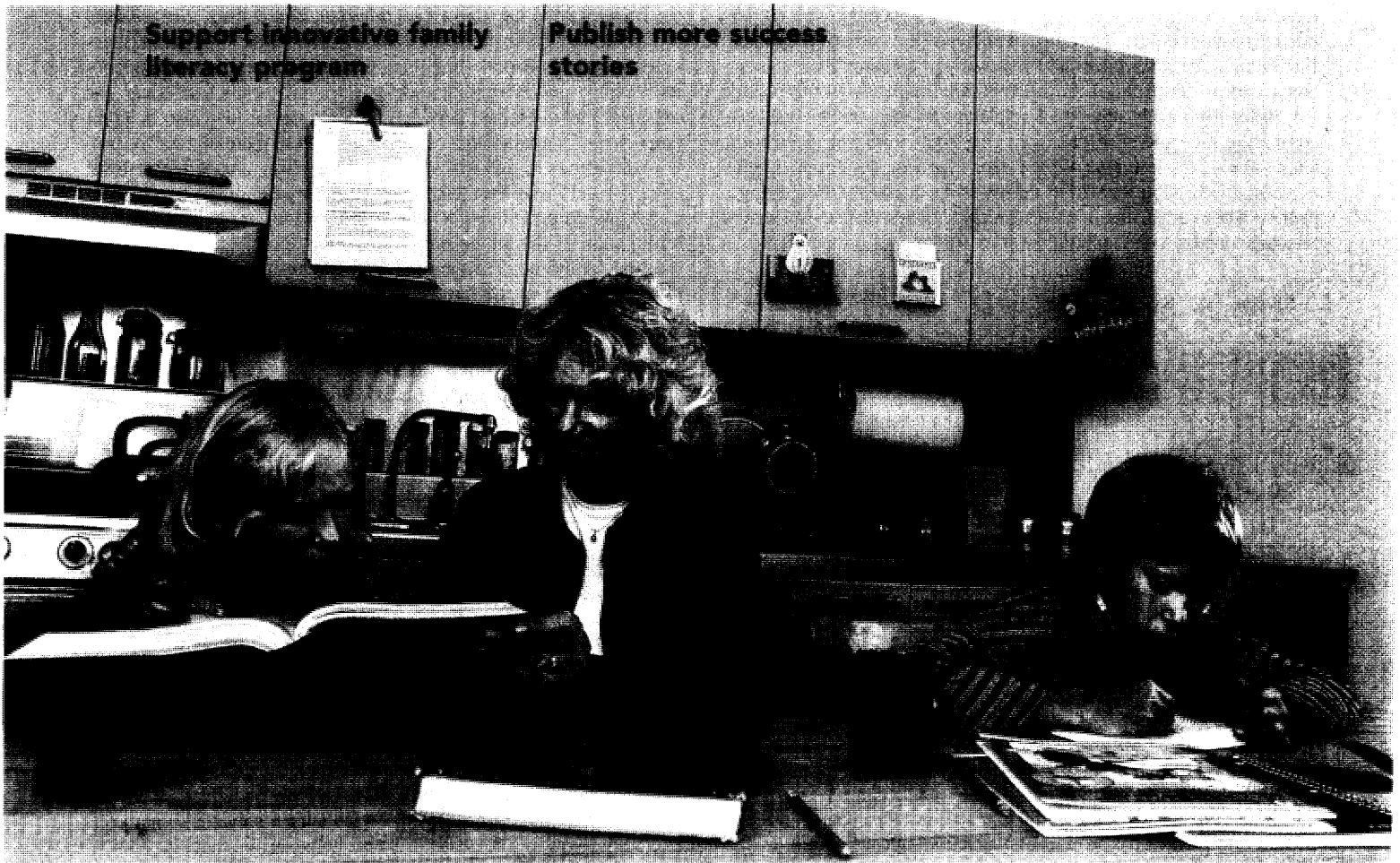


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Toyota has provided support to more than 150 family literacy programs across America. By supporting NCFL, we hope that the book on missed opportunities will one day be closed forever.

To learn more about the great work of NCFL, visit [www.famlit.org](http://www.famlit.org).

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# NEW PRODUCTS

## MacVector Accelrys

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## SEQUENCE ANALYSIS IN STYLE

The exponential growth of DNA sequence information makes database analysis increasingly important for molecular life scientists. The World Wide Web offers a great number of sites filled with links to free pro-

grams that help the user with DNA and protein analysis, ranging from sequence alignment and contig assembly to database searches, protein motif identification, and three-dimensional protein modeling. But now, so many Web sites offer help that navigating these resources has become a skill in itself, and compiling one's own set of tools from each Web site is no simple matter.

MacVector provides the most commonly needed molecular biology analysis applications in a user-friendly interface. Without changing the graphical interface, users can load text files with sequencing data, search for restriction enzyme recognition sites, locate open reading frames and specific motifs within the DNA or its translated protein sequence, and devise strategies for cloning projects. MacVector can be used to design primers or hybridization probes or to predict secondary structures in DNA molecules. Furthermore, MacVector offers tools for sequence alignment and map construction, and it produces publication quality data output that can be saved as PICT files and imported into word processing or presentation software. The software suite comes with a module for contig assembly. In the previous version of the program, the capability to construct real phylogenetic trees and analyze multiple sequences was added. To reconstruct the phylogeny of a given gene, the user can, after aligning the desired sequences, open a dialog box and choose between several analysis methods.

MacVector can be used to perform gapped or ungapped BLAST analyses. Its Entrez search function makes accessing information in National Center for Biotechnology Information databases trivial. Results from searches on those databases can be downloaded and be made immediately ready for analysis without the need for reformatting. Other useful features of the program include the transcription and translation functions, which allow one to predict coding sequences or exon-intron junctions, and the digital transcription of DNA information into mRNA. Subsequently, the created mRNA can be translated into protein according to the user-specified genetic code.

Over the years, MacVector users have appreciated the ease of operation combined with the user-friendly Macintosh interface. With the recently released version 7.1, MacVector introduces a new help function, replacing the older "balloon help" with the new pull-down menu-style help function called ToolTips. MacVector 7.1 also makes use of Macintosh's latest operating system OS X, and the increased memory, power, and stability of OS X allow for analysis of more sequences and of longer ones. However, users not yet ready to give up the familiar OS 9 interface for the sleek new Unix-based OS X need not despair. MacVector 7.1 is still able to run on any operating system from OS 8.6 on up.

—Andreas Madlung

Department of Botany, University of Washington, Seattle, WA 97331, USA. E-mail: [madlunga@u.washington.edu](mailto:madlunga@u.washington.edu).

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## CLONING AND PLASMID DRAWING SOFTWARE

MacPlasmap Pro is an advanced sequence analysis software package that combines electronic virtual cloning, plasmid map drawing, and DNA/protein sequence analyses. Cloning is achieved through a graphic front end that allows easy selection of sequence fragments, modification of fragment ends, and ligation of two or three fragments. A cloning flow chart is generated automatically as both graphic plasmid maps and text descriptions. The map window supports multiple maps, drawing objects, text items, and realistic integrated gel simulations. Maps and map features can be analyzed through many built-in functions such as advanced restriction site digestion and reporting, translation, and protein hydrophobicity analyses. The program can import many sequence formats and produce graphic maps automatically from sequences and their annotations such as GenBank feature tables. The program generates presentation-quality graphic output interchangeable with other drawing programs.

CONTINUED ON PAGE 2577

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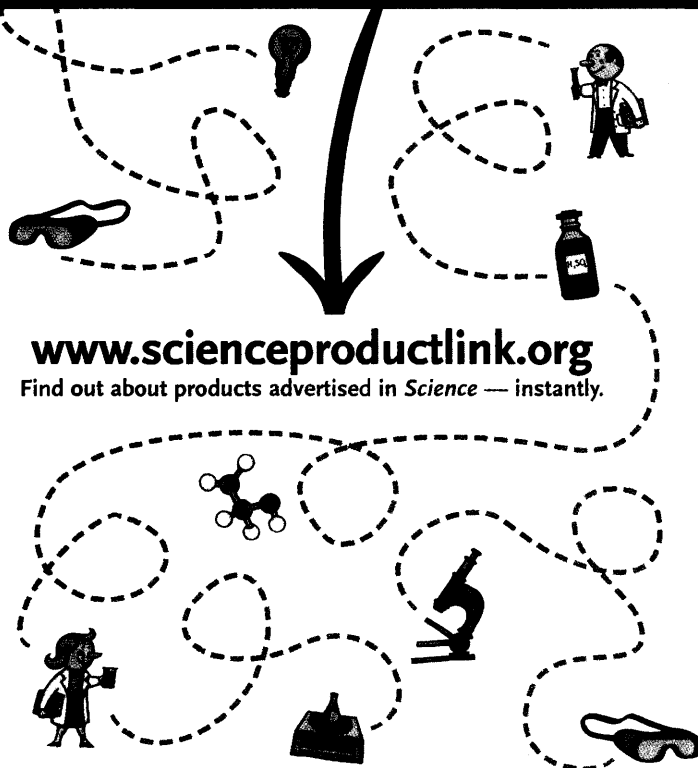
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*Packard's HydroGel Coated Slides as a Substrate for Multiplexed Immunoassays in a Microarray Format* is an application note on a tool for protein microarray applica-

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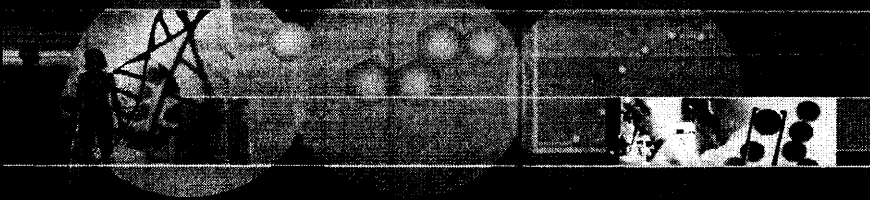
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The Center seeks candidates at all academic levels for these positions. At the senior level, we invite applications from internationally prominent scientists with distinguished records of research, teaching, and leadership. At the junior level, we invite applications from candidates whose accomplishments in innovative research and commitments to teaching demonstrate their potential to develop into future leaders of their fields.

Two Positions in Experimental Genomics: The Center welcomes applications from strong candidates in all areas of animal, plant and microbial genomics, including but not limited to the application of functional and comparative genomic methods to elucidate the determinants of phenotype. Investigators employing high-throughput approaches that extend existing strengths at UC Davis are particularly encouraged. Strong scientists whose research focuses on any level of organization, from chromosome structure, gene regulation, proteomics or metabolomics to population and systems biology, will be considered.

Two Positions in Bioinformatics: The Center welcomes applications from strong candidates in all areas of bioinformatics including but not limited to sequence analysis, molecular structure-function prediction, quantitative genetics, expression profiling, regulatory network analysis, simulation of complex systems, and database design. Candidates in bioinformatics should be motivated by the biological importance of their research, and should value the opportunity to work in close collaboration with experimental groups.

These positions require a Ph.D. or equivalent. They will be open until filled, but for full consideration applications should be complete by March 1, 2002. Applicants should send a letter of interest, curriculum vitae, and the names and addresses of at least five references to: Dr. Craig Benham, Faculty Search Committee Chair, UC Davis Genome Center, University of California, One Shields Ave. Davis, CA 95616-8536.

Further information about genomics at UC Davis is available at <http://genomics.ucdavis.edu>

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## GLOBAL OPPORTUNITIES

### THE INTERNATIONAL VACCINE INSTITUTE POSITION ANNOUNCEMENT Institute Deputy Director Laboratory Sciences

In anticipation of the completion of its state-of-the-art research headquarters building in late 2002, *The International Vaccine Institute* (<http://www.ivi.int>) is seeking an **Institute Deputy Director** to oversee the development and operations of the Institute's laboratory research activities, which will occupy approximately 90,000 sq feet of floor space in the headquarters facility. The laboratory programs will complement the Institute's ongoing epidemiologic and clinical research programs, which currently are being undertaken in 8 countries in Asia and Africa. The laboratory programs will include both basic and applied research, including vaccine process research. The Institute is non-profit and focused primarily on research and development of new and improved vaccines for use primarily in developing countries. The Institute's headquarters are in Seoul, Korea.

While it is expected that the incumbent will possess a broad view of the entire field of vaccine research, he or she should also be a recognized leader in one of the fields encompassed by the Institute's laboratory research program, including microbial genetics, immunology, and vaccine development. It is expected that the incumbent will continue to conduct a program of independently funded research in his or her areas of interest, while maintaining overall responsibility for the Institute's laboratory research program. The incumbent should also possess clear strengths in program-building, resource mobilization, and staff development. Minimum qualifications include a doctorate degree in a relevant discipline, and significant experience in leading multi-person laboratory efforts in a research environment.

Salary will be internationally competitive. The Institute provides appropriate fringe benefits including a housing allowance, home leave, and income tax reimbursement.

The International Vaccine Institute is an independent international organization established under the Vienna Convention of 1969. It is governed by a Board of Trustees the majority of whom are elected based on their personal achievements and positions in the vaccine field. The institute has scientific collaborations in 14 countries and with WHO.

Applications along with a current curriculum vitae and three references should be addressed to:

**Mr. Hongki Jong**  
Senior Administrative Officer  
IVI, Kwanak PO Box 14  
Seoul, Korea 151-600  
Tel: 82-2-872-2801 Fax: 82-2-872-2803  
Email: [hjong@ivi.int](mailto:hjong@ivi.int)

from whom further particulars can be obtained. Absolute confidentiality will be respected.



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Ongoing opportunities exist for **Research Associates, Scientists, Principal Scientists and Postdoctoral Scientists** to join us in these areas:

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Recognized as one of today's fastest growing biopharmaceutical companies, Elan has much to offer enterprising individuals interested in bringing quality-of-life advancements to the world. We also provide a comprehensive array of benefits, including medical, dental, vision care, stock options, a 401(k) savings plan, educational assistance, short- and long-term disability, 3 weeks paid vacation, plus innovative employee conveniences like dry cleaning, film development and car wash services. To learn more about specific openings and job locations or to apply online, please visit our website. Equal opportunity employer.



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**USP UNIVERSITY OF THE  
SCIENCES IN  
PHILADELPHIA**

**Philadelphia College of Pharmacy**, the founding college of University of the Sciences in Philadelphia invites applications and nominations for the position of Chair, Department of Pharmaceutical Sciences. The successful candidate will have excellent interpersonal and leadership skills and will have the vision and ability to bring the department to the next level of national recognition and achievement.

The department consists of seven full-time faculty in the pharmaceuticals division, six full-time faculty in the pharmacology/toxicology division, and approximately 32 graduate students. The department has an AALAC licensed vivarium and ongoing NIH research grants and industry contracts. The department has Ph.D. and M.S. programs in pharmaceuticals, pharmacology/toxicology, and B.S. programs in pharmacology/toxicology, and pharmaceutical technology. The department also has shared responsibilities with the Department of Pharmacy Practice for the Doctor of Pharmacy Program. The Chair is responsible for the recruitment and development of faculty to achieve the teaching, research and service missions of the department, college, and university. The chair is also responsible for developing and administering budgets, and participates in leadership and planning at the college and university levels.

Applicants must have a Ph.D. in the pharmaceutical or biomedical sciences and should possess a distinguished record of teaching, research and service commensurate with the rank of Professor. All appropriate disciplines will be accepted, but additional consideration will be given to candidates who have interests in pharmaceutical applications of biotechnology. Preference will be given to candidates with experience of mentoring graduate students and teaching at the graduate and undergraduate levels.

The position will be available July 1, 2002. Review of applications will begin immediately and will continue until the position is filled. For additional information about USP see our web site at [www.usip.edu](http://www.usip.edu). Applicants should send a letter of application, curriculum vitae, and the names of three references by electronic or U.S. mail to: **Clyde Ofner, Ph.D., Chair, Search Committee, University of the Sciences in Philadelphia, Philadelphia College of Pharmacy, 600 South 43rd Street, Philadelphia, PA 19104, c.ofner@usip.edu**

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**Chair, Department of Neurology  
University at Buffalo  
School of Medicine and  
Biomedical Sciences**

The School of Medicine and Biomedical Sciences, University at Buffalo is seeking candidates for the position of Chair of the Department of Neurology and Director of the Jacobs Neurological Institute. The Chair will direct and provide leadership for the academic, clinical and research programs of the Department of Neurology of the School of Medicine and its teaching hospitals.

Candidates must have an M.D. degree, board certification in Neurology, be eligible for New York State licensure, and have a record of academic achievement that supports tenured appointment at the rank of Professor. Recognized clinical and/or research excellence in Neurology, strong commitment to education, and significant administrative experience are required.

Nominations and applications including a curriculum vitae should be sent to: **Peter Ostrow, M.D., Ph.D., c/o Nancy Glieco, Office of the Vice President & Dean, University at Buffalo, School of Medicine & Biomedical Sciences, 131 Biomedical Education Building, Buffalo, NY 14214.**

*The University at Buffalo is an AA/EOE*

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**703**

**JOB OPENING**

**SRS**

**Research Microbiologist**

We are currently recruiting a Ph.D. level microbiologist, specializing in microbial detection and characterization, to join the Environmental Biotechnology Section of the Savannah River Technology Center. This position may be staffed as an entry-level microbiologist, mid-career researcher or more senior level - depending on the qualifications of the applicant.

The successful applicant will join a multi-disciplinary team of scientists focused on the development and application of new technologies for the detection and assessment of target microorganisms in a variety of environmental matrices. The microbiologist will utilize state-of-the-science molecular biology techniques, bioanalytical instrumentation, RNA/DNA molecular probes, microbial characterization tools and immunochemistry technologies to measure the presence, activity and impact of microorganisms in projects related primarily to biodetection, biomonitoring, and biosensors. The work will be supported with a new, state-of-the-art biotechnology laboratory opening November, 2001. An established record of scientific achievement and excellent written and oral communication skills are mandatory. Salary is commensurate with your training and experience. Our highly regarded benefits program includes relocation assistance.

*For consideration please forward resume and salary history to:*

**Mr. Lamar Cherry | Westinghouse Savannah River Company  
Employment | Bldg. 703-47A | Aiken, SC 29808  
Fax: (803) 725-8781 | Email: [lamar.cherry@srs.gov](mailto:lamar.cherry@srs.gov)**



Westinghouse Savannah River Company - An Equal Opportunity Employer  
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**Postdoctoral Fellow  
Mayo Clinic Molecular Medicine Program  
Rochester, Minnesota, U.S.A.**

**Mayo Clinic Rochester** has established a Molecular Medicine Program with several groups working on gene therapy using different viral systems. In the group of **Dr. Richard Vile** a motivated individual is required for the construction of targeted vector systems for cancer gene therapy.

Expertise in any or all of molecular biology, virology, immunology and cell biology would be required. Salary will be determined by the successful candidate's experience, and an attractive benefit package is available. Mayo Clinic Rochester 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/mmp>.

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

**Dr. Richard G. Vile  
Mayo Clinic  
Molecular Medicine Program  
Guggenheim 18  
200 First ST SW  
Rochester, MN 55905, U.S.A.  
[vile.richard@mayo.edu](mailto:vile.richard@mayo.edu)**

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# Lead Discovery

## opportunities in CNS & Pain Control, R&D Södertälje

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efforts in Research Area  
CNS & Pain Control at  
site Södertälje Sweden

Lead Discovery, divided  
into the two sections  
Assay Development & High  
Capacity Screening and  
Molecular Pharmacology, is  
rapidly growing

### Associate Director

We are looking for an experienced molecular pharmacologist to head a section working in the field of enzymology, receptor and ion channel pharmacology. The Molecular Pharmacology section is responsible for the development of biochemical and cell-based assays primarily using recombinant cells, e.g. for the characterization of mechanism of action, functionality and selectivity of novel compounds. The successful candidate should have a Ph.D. degree with a strong scientific background in molecular pharmacology/biochemistry/cell biology, preferably within enzymology. As head of the Molecular Pharmacology section you will have the operative responsibility for the work of the section. Management experience in the pharmaceutical industry is an advantage. Well-developed leadership and interpersonal skills and a flexible approach to a demanding and challenging working environment are required for this position. (Ref. nr. 10-5666)

### Senior Research Scientist

The appointed person will have the scientific responsibility for projects within the Lead Discovery Department having G protein-coupled receptors as drug targets. The successful candidate should have a strong background in molecular pharmacology/ biochemistry/cell biology as well as GPCR-mediated signal transduction. You should have a Ph.D. and several years of postdoctoral experience. You are expected to initiate, supervise and evaluate the scientific activities in the GPCR area within the Department as well as to provide scientific leadership and guidance to a number of multidisciplinary projects. A strong interest and laboratory experience in the development and implementation of both novel and established in-vitro assays and screening technologies is essential. Drug discovery/pharmaceutical industry experience will be an advantage. You should be enthusiastic and highly motivated by nature and have the necessary communication skills as well as personal presence to supervise other scientists. (Ref. nr. 10-5663)

For further information, please contact Åsa Malmberg +46 8 553 286 37 or Michael-Robin Witt +46 8 553 241 89. Please send your written application marked with "Ref. nr" for the specific position you want to apply for to: AstraZeneca R&D Södertälje, Human Resources, Lili Hofbauer, S-151 85 Södertälje, Sweden

Closing date: 14 January 2002.

For further information visit our website at

[www.astrazeneca.se](http://www.astrazeneca.se)

# AstraZeneca



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## DIRECTOR OF NEUROBIOLOGY

**AVIGEN** is a world leader in the development of gene therapy for the treatment of inherited and acquired diseases. We are applying our Adeno-Associated Virus (AAV) delivery technology in a novel approach to improve treatments for Parkinson's disease. We are seeking a Director of Neurobiology to expand our neurobiology group and lead a CNS gene therapy program focused on innovative translational research.

Working with in-house staff and outside collaborators (including those from UCSF—see Recent News at [www.avigen.com](http://www.avigen.com)), the Director will oversee a pre-clinical research team in determining the efficacy and safety of candidate AAV vectors in animal models of Parkinson's disease. The Director will also help frame the preclinical program design and documentation leading to an IND filing and participate in setting and implementing the organization's strategic objectives. The Director will serve as the company's scientific and technical expert in neurological diseases. He or she will also be responsible for conducting original research which uses AAV to identify new therapies for neurological disorders.

Candidates should have an MD/PhD, 8-10 years experience in neuroscience, a demonstrated record of research productivity evidenced by publications and/or patent applications, and a background that includes working with animal models of Parkinson's disease for drug development. Management experience is also desired, and an industry background would be an advantage.

Avigen fosters an open and collaborative scientific environment in our facilities in the San Francisco Bay area. To apply, please email your c.v. to us, referencing HR/308 in the subject line, at [neuro@srasf.com](mailto:neuro@srasf.com) or mail to Neuro Search, Sanford Rose Associates, 1415 Oakland Blvd., Suite 215, Walnut Creek, CA 94596. EOE.



## IEEE FOUNDATION Journalism Internship

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.

Young journalists will help write and edit articles on emerging issues in areas such as telecommunications, computer technology, and power and energy.

**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.**

Applicants should have a minimum of an undergraduate background in engineering or science and ideally will have completed one year in a graduate program in journalism or have equivalent early work experience in journalism. To receive an application, contact Nancy T. Hantman at 212-419-7561 or email: [n.hantman@ieee.org](mailto:n.hantman@ieee.org)

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## Junior Postdoctoral Research Position

A Research position is available in Dr. Stuart Smith's laboratory at **Children's Hospital Oakland Research Institute** to participate in a long-term program directed toward elucidating the structure and mechanism of action of the multifunctional animal fatty acid synthase and related enzymes [see *Biochemistry*, 40, 10792 (2001) & 38, 11643 (1999); *J. Biol. Chem.* 274, 11557 (1999) & 273, 4937 (1998)]. Experience in one or more of the following areas is desirable: recombinant DNA methodology; protein expression, mutagenesis and characterization; enzyme kinetics and mechanisms. Candidates from minority groups under-represented in biomedical sciences are particularly encouraged to apply.

Our Institute is located in a recently restored, award-winning historic landmark campus at Martin Luther King Jr. Plaza in the San Francisco Bay Area, and has a staff of more than 200. Send resume and names of two references to: **Dr. Stuart Smith at Children's Hospital Oakland Research Institute, 5700 Martin Luther King Jr. Way, Oakland, CA 94609; E-mail: [ssmith@chori.org](mailto:ssmith@chori.org); Fax: (510) 450-7925.** For more information, please visit [www.chori.org](http://www.chori.org) or call **Linda Tywoniak at: 510-450-7607.** Children's Hospital Oakland Research Institute is an Equal Opportunity Employer.

### Children's Hospital Oakland

*The pediatric medical center  
for Northern California*

The Hospital for Sick Children (HSC) is a world-renowned academic health science center dedicated to the care and prevention of children's diseases. The Research Institute at HSC is the largest hospital-based Institute of its kind in Canada and is affiliated with the University of Toronto. The Center for Computational Biology (CCB) in the Research Institute is accepting applications from highly qualified individuals for the position of **SCIENTIFIC DIRECTOR**. The primary goal of the CCB is to be a leader in computational biology through innovative computational research and the provision of training, support, software and database access. The CCB is a major super-computing facility and provides support for scientists with interests including structural biology, genomics, image analysis and bioinformatics.

**SCIENTIFIC DIRECTOR, CENTER FOR COMPUTATIONAL BIOLOGY**—The successful candidate must have a Ph.D. and a demonstrated record of excellence in scholarly activities, including a broad knowledge of advanced bioinformatics tools and techniques, and proven experience in program management. The Scientific Director will be expected to maintain an independent research program and will be provided with protected time. A Facility Manager reporting to the Scientific Director will have operational responsibilities for the CCB. The Scientific Director will lead and coordinate the development of the CCB, supporting the strategic directions of the Hospital and Research Institute, and will report to the Chief of Research and the Management Committee of the CCB.

Applications (including a curriculum vitae and the names, addresses, telephone numbers and e-mail addresses of three references), as well as inquiries for additional information, should be directed by January 18, 2002, to: Anne Marie Christian, Associate Chief, Research Operations, Research Institute, The Hospital for Sick Children, 555 University Avenue, Toronto, Ontario, Canada M5G 1X8. Fax: (416) 813-5085. All qualified candidates are encouraged to apply; however, Canadian and permanent residents will be given priority.

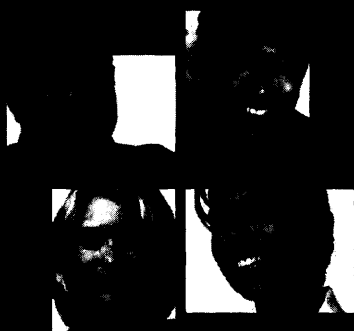


**THE HOSPITAL  
FOR SICK CHILDREN**  
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University of Toronto

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### **MRI Expert (Ann Arbor, Michigan)**

Acting as our scientific MRI expert, you will be responsible for the daily operation of a Bruker 7T, 210/AS MRI, developing MRI protocols for imaging *in vivo* small animal and *ex vivo* biological specimens and image data analysis. You'll need a PhD, preferably in Biophysics, Bioengineering or a related biological science field and 5+ years research experience in an academic or pharmaceutical industry setting. In addition, you'll have expertise in pulse sequence development and selection, FT coil design, developing histological correlations to MR images, 2D/3D data rendering and animation, data formatting and archiving, MRI scan library development and use of visualization software tools. Req. #12Jul0106167

### **Senior Scientist (La Jolla, California)**

We currently are seeking an experienced scientist to join our Molecular Biology Department. Your responsibilities will cover a broad scope of techniques and expertise, including acting as lead scientist; conducting cloning, fermentation, protein expression and purification; and employing the state-of-the-art tools and techniques used in molecular biology. This position requires a PhD, 8+ years postdoctoral experience in Molecular Biology, Biochemistry or a related field, and solid supervisory skills. A successful background as a project leader in the fields of virology, obesity, diabetes, oncology or ophthalmology is highly desirable. Req. #01-0467-5V105SL

### **Associate Scientist (La Jolla, California)**

In this role, you will assume responsibility of the *E. coli* fermentation facility in our Molecular Biology Department. This hands-on position requires operating bioreactors (5-120 L) for research projects in oncology, virology, ophthalmology, obesity and diabetes. You'll need a PhD in Biochemistry, Molecular Biology or a related field and 3 years experience in bacterial fermentation. A working knowledge of other fermentation systems for recombinant protein production (including yeast and insect cells/baculovirus) is preferred. Req. #01-0542-5V105SL

**At Pfizer**, we build our success on the innovation, skills and entrepreneurial spirit of each of our employees. As an integral member of our team, you'll find myriad opportunities to assert your scientific independence as you generate results that will advance our ultimate goal of creating life-enhancing therapies. You'll also benefit from a wealth of resources, the support of an exceptional team, and the chance to work on some of the most exciting science in the industry. Count the ways you can impact lives as you bring your ideas to life at Pfizer.

### **Micro-CT Expert (Ann Arbor, Michigan)**

Acting as our scientific micro computer tomography (micro-CT) expert, you will be responsible for the daily operation of an EVS mouse/rat micro-CT scanner, developing *in vivo* and *ex vivo* imaging protocols and image data analysis. You'll need a PhD, preferably in Bioengineering, Mathematics, Computer Science, or a related biological science field and 5+ years research experience in an academic or pharmaceutical industry setting. You'll also bring documented experience using a micro-CT scanner, particularly a cone beam scanner using the Feldkamp reconstruction algorithm, experience with imaging live animals, computer expertise, and skills in image reconstruction, 2D/3D visualization, data analysis and archiving, and histological registration and validation. Req. #12Jul0106168

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- 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 31 January 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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### THE UNIVERSITY OF NEW MEXICO SCHOOL OF MEDICINE

The Department of Biochemistry and Molecular Biology invites applications for one or more tenure-track positions at either the Assistant or Associate Professor level. Applicants must have a Ph.D., M.D. or equivalent degree with experience in biochemistry, molecular biology or a related discipline, relevant post-doctoral experience, an established research record and must be committed strongly to an academic career in biomedical research and teaching. Preference will be given to individuals with extramural-grant support and whose research activities complement those of the Department and the School of Medicine. Applicants whose interests are in protein biochemistry/ proteomics are especially encouraged to apply. The department's research encompasses the biochemistry and molecular biology of disease states, with specific interests in regulation of gene expression, functional genomics and proteomics, metabolic and nutritional biochemistry, redox systems and protein structure and function. The Department is committed to diversity within its faculty and students and members of underrepresented groups are strongly encouraged to apply. Salary will be commensurate with experience and qualifications.

For best consideration, application materials must be received by January 14, 2002. Applicants must send their *curriculum vitae*, the names of three references and their email addresses, and a concise description of their research program and career goals. The materials should be sent to: Dr. John Omdahl, Chair, Faculty Search Committee, c/o Ms. Kristin Gates, Department of Biochemistry and Molecular Biology, University of New Mexico School of Medicine, Albuquerque, NM 87131-5221. Website: [hsc.unm.edu/som/bmb/](http://hsc.unm.edu/som/bmb/).

*The University of New Mexico is an Equal Opportunity/  
 Affirmative Action Employer & Educator.*

### 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.*



# CELERA

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**Oncologist/Pathologist/  
Immunohistochemist**



First, we cracked the code of the consensus human genome. Now, we're unraveling the mystery of disease. Our recent acquisition of Axys Pharmaceuticals, Inc. brings even

more progressive capabilities - a broad pipeline of therapeutic solutions, partnerships with world-class pharmaceutical companies, and a proprietary production portfolio. From Proteomics to Immunotherapeutics to wherever your imagination can take you, Celera is changing the face of medicine.

We invite you to join us as an **Oncologist/Pathologist/Immunohistochemist** in our Biologics group for our Rockville, Maryland facility. You will be responsible for set up and optimization of an IHC workflow sufficient to meet the Target Validation needs of the Biologics Department.

You will interface closely with Discovery Informatics and Proteomics Departments in evaluating expression IHC signals in normal and diseased tissues in support of proposed disease hypotheses. You will also lead bench scientists in the generation of labeled antibodies, processing of tissue samples, and the conduction of IHC assays.

You must be an MD with a minimum of 4 years of research experience and possess a solid

background and knowledge in immunology and biochemistry with emphasis on immunohistochemistry. Further, you must have background and experience in conducting IHC as well as microscopy and imaging (brightfield, fluorescence, etc.); ability to analyze experimental data critically, draw rational conclusions, present technology and data at meetings, and prepare experimental reports. You will also possess excellent negotiation and interpersonal communication skills to work in partnership with scientists from various groups on a daily basis to accomplish tasks along with the ability to incorporate corporate values into daily work habits (respect for people, integrity, sense of urgency, networking, creativity, empowerment, courage). Leadership and good management qualities, including the ability to lead Research Associates in daily activities associated with execution of the IHC workflow, are also required.

Celera offers a very competitive salary structure, generous matching 401(k), stock options/purchase, life/health/vision/dental/disability insurance, three weeks of personal time off, 11 paid holidays, Compaq computer discount purchase program, education assistance and on-site fitness center. To apply, please forward resume or CV, references and salary requirements to: **E-mail: jobs2@celera.com** or mail to: **Human Resources, Celera Genomics, 45 West Gude Drive, Rockville, MD 20850.**

For more information about other exciting career opportunities, visit our web site at:

**<http://www.celera.com>**

EOE, M/F/D/V

## GLOBAL OPPORTUNITIES

### Positions open (Faculty position)

#### DEPARTMENT OF LIFE SCIENCE KWANGJU INSTITUTE OF SCIENCE AND TECHNOLOGY (K-JIST) KOREA

FACULTY POSITIONS are available in the areas of 1) *Signal transduction*, 2) *Structure-based drug design*, 3) *Mammalian genetics and development*, or *Gene targeting*, and 4) *Functional proteomics*. The responsibilities of this position include development of an active research program and participation in graduate student teaching programs in the department. Teaching will be conducted in English. The applicants should have a Ph.D. degree in the relevant fields and at least two years of postdoctoral training. K-JIST is a government-funded graduate school (Master and Doctorate degrees offered), located in Kwangju, 200 miles south from Seoul. The school offers an excellent environment for both research and outdoor activities. Constant governmental research funds are available for faculty research. The starting salary is competitive depending on the experience and fringe benefits include free faculty apartment for 5 years.

Please send curriculum vitae with photograph, publication list, and research plan (one page of A4 size paper) by mail to: **Faculty Search Committee, The Academic Affairs Section, Kwangju Institute of Science and Technology (K-JIST), 1 Oryong-dong Puk-gu, Kwangju, 506-712, Korea (Tel: +82-62-970-2043, Fax: +82-62-970-2049, E-mail: [academy@kjist.ac.kr](mailto:academy@kjist.ac.kr)).**

**POSTDOCTORAL POSITIONS IN BIOLOGY AT BOSTON COLLEGE.** Boston College, a national university that offers outstanding research facilities, has the following postdoctoral openings in the Biology Department.

**B CELL ACTIVATION AND SIGNAL TRANSDUCTION, Dr. Thomas Chiles ([chilest@bc.edu](mailto:chilest@bc.edu)).** A position is available to study the regulation of cell cycle entry in B lymphocytes in response to B cell antigen receptor (BCR) ligation. The proposed research includes study of the role of hsp90/Cdc37 in D-type cyclin-cdk4 holoenzyme complex assembly; the regulation of Cdc37 function by phosphorylation during negative signaling; and the regulation of cyclin D2 mRNA stability in response to BCR signal input.

**XENOPUS OOCYTE DEVELOPMENT, Dr. Laura Hake ([hake@bc.edu](mailto:hake@bc.edu)).** An NIH funded postdoctoral position is available immediately to study the translational regulation of stored mRNAs in *Xenopus* oocyte development. We are using molecular and biochemical approaches to examine translational regulation and its control by signal transduction pathways. Applicants with experience in molecular biology and either protein chemistry, biochemistry, or cell biology will have the opportunity to make a valuable contribution to our research program.

**CHROMOSOME/MICROTUBULE DYNAMICS, Dr. Jan Paluh ([paluh@bc.edu](mailto:paluh@bc.edu)).** Positions are available to study the role of mitotic kinesin-like proteins in spindle assembly and function and chromosome segregation in fission yeast. The proposed research includes study of the roles of Pkl1 at the MTOC and regulation and function of the essential chromokinesin, SpK1d.

**HOST-PARASITE INTERACTIONS IN MALARIA, Dr. Marc Muskavitch ([muskavit@bc.edu](mailto:muskavit@bc.edu)).** Positions are available to study the developmental and cell biology of the midgut in the malaria vector mosquito, *Anopheles gambiae*. Understanding the biology of the *An. gambiae* midgut, a tissue central to the reproduction of malarial parasites, will advance our understanding of host-parasite interactions in malaria, and may help us develop strategies to disrupt this interaction.

**DROSOPHILA NOTCH SIGNAL TRANSDUCTION, Dr. Marc Muskavitch ([muskavit@bc.edu](mailto:muskavit@bc.edu)).** Positions are available to study signal transduction and cell-fate specification in the development of the fruit fly, *Drosophila melanogaster*. Studies will focus on ligand structure-function relationships, receptor processing, and activation in the Notch signal transduction pathway.

For more information on each of these labs please visit: **<http://www.bc.edu/biology>**

Applicants for all positions must have a Ph.D., demonstrated skills in the chosen subject area, and fluency in spoken and written English. To apply for a position, please send a curriculum vitae and three letters of reference addressed to the appropriate faculty member at: **Boston College, Biology Department, Higgins Hall, Chestnut Hill, MA 02467.**

*Boston College is an Equal Opportunity Employer. We encourage applications from women and from members of groups underrepresented among life science professionals.*



# Ecopia

Ecopia BioSciences is leading the search for new classes of antibiotics and antifungal agents from natural sources. Some of the most important drugs in history- including lifesaving antibiotics such as vancomycin, erythromycin, tetracycline, and streptomycin- are produced by a single family of microorganism, the Actinomycetes. Ecopia develops and integrates cutting-edge technologies in genomics, bioinformatics and chemistry to discover new bioactive compounds from microorganisms such as the Actinomycetes.

At Ecopia, natural product discovery is driven by our automated, high-throughput gene locus discovery and biosynthetic pathway deduction technologies. The following opportunities exist in our growing Chemistry department for scientists eager to harness the power of genomics and informatics to discover NCEs and solve the structures of bioactive natural products:

## Director of Chemistry

This senior management position requires extensive experience in the purification and preclinical advancement of fermentation-derived compounds. The Director of Chemistry will manage a dynamic and rapidly growing team of Scientists and Research Associates involved in natural product isolation and method development; implement and integrate diverse core technologies and develop innovative methods to accelerate the advancement of Ecopia's compound pipeline; identify opportunities for commercial development of NCEs; and contribute to the strategic corporate development of the company's integrated drug discovery program.

**Qualifications:** Ph.D. in Chemistry with 10+ years experience in microbial natural product discovery and development with at least 5 years experience in a biotechnology or pharmaceutical industry setting; proven track record in managing a natural product discovery team and in delivery of compounds to preclinical development; and a record of scientific excellence and outstanding achievement as demonstrated by scientific publications and/or accomplishments in industry.

## Scientists, Natural Product Discovery

Successful candidates will form part of a team dedicated to isolation and structural elucidation of natural products from diverse microorganisms.

**Qualifications:** Ph.D. in Chemistry, 4+ years experience in isolating natural products; experience with multiple chromatographic techniques; familiarity with HPLC, MS, NMR instrumentation and modern techniques in structure elucidation; desire to work on cross-disciplinary teams to develop and implement innovative solutions to natural product isolation and structure determination.

Be a part of the team that is changing the way natural products are discovered. Additional information can be found at [www.ecopiabio.com](http://www.ecopiabio.com). For consideration, send application, including a CV to the address below. All enquiries will remain confidential.

**Human Resources  
Ecopia BioSciences  
7290 Fredrick Banting  
Saint-Laurent (Quebec) H4S 2A1  
Canada  
FAX: (514) 336-8827  
email: [careers@ecopiabio.com](mailto:careers@ecopiabio.com)**

## Postdoctoral Science Fellowships from the USA to the UK

The Royal Society is offering a new programme of Postdoctoral Science Fellowships tenable in the UK to begin from June 2002. The key objectives are to:

- develop collaborative links between centres of excellence in the UK and the USA.
- enhance the research capabilities of outstanding individual scientists.

Each award, to include international travel, subsistence and research expenses, will depend on experience and current tenure, and will last between 12 and 36 months.

### Eligibility

- Applicants must be US nationals living in the USA at the time of application.
- Awards are granted for research in the natural and applied sciences. Awards are not granted in the areas of the social sciences or clinical medical research.
- Applicants must either have a recent PhD or be scientists who have just obtained a tenured position in a US university and have the opportunity for sabbatical leave.

*The closing date for completed applications is Friday 1 February 2002.*

### Further information

Further details and an application form can be obtained from the Society's web site ([www.royalsoc.ac.uk/funding/ig\\_fr.htm](http://www.royalsoc.ac.uk/funding/ig_fr.htm)).

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## Director

### Astrobiology and Space Research



**NASA's Ames Research Center is soliciting letters of interest** from qualified individuals who are interested in pursuing an assignment through the Intergovernmental Personnel Act (IPA) agreement to lead its Astrobiology and Space Research Directorate.

The Directorate conducts basic research, technology development, and flight project development and operations for selected NASA missions, mainly within the broad discipline of astrobiology (the study of life in the universe). The Directorate serves as agency lead for astrobiology in space science (the origin of life and its possible development on other worlds), life science (gravitational biology, the role and influence of gravity on living systems), and Earth science (the relationships between life on Earth and our changing environment). To achieve its science goals, spaceflight missions, science payloads, and required technologies are planned, developed and managed. Directorate scientists and engineers utilize and leverage both the Center's intramural expertise in information systems and nanotechnology as well as the expertise of the surrounding industrial and academic institutions in the San Francisco bay area. The Directorate manages an annual budget of approximately \$130M and consists of more than 250 civil servants working with approximately 500 on-site students, colleagues from academia, and aerospace contractors. The Director formulates the scope and content of research and development programs; represents the programs to Headquarters and other NASA centers, industry, government agencies, and comparable international organizations. The Director is responsible for the planning and direction of research, technology development, and flight projects over a broad range of activities focusing on earth, space and life sciences. The incumbent also participates with the Center Director, Center Deputy Director, Center Deputy Director for Research, and other organizational directors in planning the overall scope, nature, and direction of the Center's research and development programs and in evaluating the progress of the programs in meeting the Center's goals and objectives. The successful candidate will have a Ph.D. or MD degree with at least 10 years of research and research management experience. Salary negotiable, commensurate with experience. Letter of interest and c.v. should be received at Ames by February 15, 2002. Review of submissions will begin on February 25, 2002, and will continue until the position is filled. Please send to: **NASA Ames Research Center, Moffett Field, California 94035, Attn: Rho Christensen, MS 200-1A.**





# Microbial Genomics

at Cornell University

As part of a university-wide genomics initiative, Cornell University is seeking applications for positions in microbial genomics. Successful candidates will be located in various departments or units on the Ithaca campus but will remain affiliated with the larger Cornell Genomics Initiative that includes computational and statistical genomics, evolutionary genomics, mammalian and plant genomics, and nanobiotechnology. A more detailed outline of the initiative, including all job descriptions and contact information, can be found at [www.genomics.cornell.edu](http://www.genomics.cornell.edu).

## Genomics of Microbial Communities of the Soil

Microbial communities of the soil have a tremendous influence on plant productivity and environmental quality. Applications are sought from candidates who apply a functional genomics/proteomics approach to the study of soil microbial communities or rhizosphere microorganisms. The successful applicant will be appointed in the Department of Crop and Soil Sciences.

## Genomics of Bacterial Physiology

The study, design, and control of metabolic pathways of prokaryotes are fertile areas for engineering applications in biotechnology. Candidates are sought who are interested in taking an integrative genome-based approach to investigating or modeling metabolic pathways in bacteria. The successful applicant will be appointed in the School of Chemical and Biomolecular Engineering.

## Prokaryotic Genomics

The large number of prokaryotic genomes that have been sequenced represents an enormous resource for biological research. Potential areas of study for candidates include functional genomics, comparative genomics/genome evolution, and global regulation of gene expression in response to environmental stimuli. The primary teaching responsibility will be an upper-level undergraduate/graduate course in bacterial genetics. The successful applicant will be appointed in the Department of Microbiology in the College of Agriculture and Life Sciences.

## Genomics of Host Disease Resistance

Recent expansion in murine transgenic biology at Cornell University provides an ideal opportunity for researchers interested in exploiting the mouse model to identify loci involved in resistance to microbial infections. Applicants for this positions are being recruited jointly by the Microbial and Mammalian Genomics Initiatives, and the successful candidate will be appointed in the Department of Microbiology and Immunology in the College of Veterinary Medicine.

Applicants should send a curriculum vitae, a statement of research interests, and the names of at least three references to: Microbial Genomics Search Committee, 245 Emerson Hall, Cornell University, Ithaca, NY 14853-1901.

For more information see [www.genomics.cornell.edu](http://www.genomics.cornell.edu)

**Genomics**   
INITIATIVE



## MAYO CLINIC CANCER CENTER

The Mayo Clinic Cancer Center announces openings for faculty positions at the Assistant, Associate, and Professor level. Qualified individuals are expected to initiate and maintain an outstanding research program and to contribute to educational activities in Mayo Graduate School and Mayo Medical School. The Cancer Center is seeking to supplement existing strengths by recruiting faculty members who are interested in the following areas:

Cell Biology and Genetics, with a focus on basic cell biological and signaling mechanisms relevant to cancer initiation or progression. Individuals with interest and expertise in functional genomics using model organisms such as mouse, yeast, fly, or worm are especially encouraged to apply.

Outstanding applicants with research interests in other areas will also be given full consideration. Successful candidates will have an opportunity to interact with basic and medical scientists in areas of cell and molecular biology, structural biology, gene therapy, and medicine. Applicants should send a curriculum vitae and a statement of research interests before March 1, 2002 to:

**Ms. Kathryn Streich**  
Mayo Clinic  
Stabile 8  
200 First St. SW  
Rochester, MN 55905

E-mail: [streich.kathryn@mayo.edu](mailto:streich.kathryn@mayo.edu)

*Mayo Foundation is an Affirmative Action and  
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## Biologist Position at the National Institutes of Health

A biologist position is available at the Unit of Behavioral Genetics, Laboratory of Molecular Pathophysiology, National Institute of Mental Health. The research focus of the Unit on Behavioral Genetics is the study of the molecular basis of neuronal plasticity and behaviors. The successful candidate will be expected to play a key role in the multiple diverse studies that will be conducted at the Unit of Behavioral Genetics. Responsibilities will include taking care of mouse colonies including genotyping, running behavioral experiments, immunohistochemical analysis of mouse brains, and general laboratory duties. The successful candidate must have a BS/MS in Molecular Biology, Genetics, Neuroscience or related discipline. Preference will be given to individuals with experience in the study of transgenic animals. The position is located within the NIMH Intramural Research Program, in Bethesda, Maryland. Salary will be commensurate with NIH guidelines and experience.

Please send CV and names of three references by January 31, 2001 to: Hussein Manji, M.D.

Chief, Laboratory of Molecular Pathophysiology  
National Institute of Mental Health  
Bldg. 49, Rm. B1EE16  
49 Convent Drive MSC-4405  
Bethesda, MD 20892-4405  
[ManjiH@intr.nimh.nih.gov](mailto:ManjiH@intr.nimh.nih.gov)



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# Think

Enter the world of Novartis Pharmaceuticals. Our dedication to R&D is the driving force powering our pharmaceuticals pipeline. And our pipeline is stronger than ever - connecting the world to breakthrough treatments that help people live longer, healthier lives. Today, we're introducing innovative treatments for an ever-increasing variety of diseases and disorders. From Alzheimer's and epilepsy to cancer and Parkinson's. And you could be an integral part of the innovation.

With a global investment of \$2.5 billion, we're assembling leading -edge research teams from a broad spectrum of specialties including Functional Genomics, Pharmacogenetics, Oncology, Arthritis and Bone Metabolism, Metabolic and Cardiovascular Disease, Transplantation, Central Nervous System and Infectious Disease. Join our Summit, NJ operation, work with experts in both New Jersey and Switzerland and be the key to tomorrow's discoveries.

#### **Postdoctoral Research Scientist**

This position will study insulin signal transduction pathways with the goal of identifying novel proteins that impact and regulate this system. 'Insulin Resistance' is recognized as a fundamental aspect of type 2 diabetes. This state manifests itself as a resistance to the normal action of insulin receptor levels. The molecular defect leading to insulin resistance is not known. The responsibility of the postdoc will be to further detail the insulin signal transduction system and to elucidate novel enzymes which limit the activity of insulin in the insulin resistant state. Proteins which are differentially expressed or activated in insulin resistance will be candidate enzymes. The research will detail biochemical events proximal to the insulin receptor by using preparative immunoprecipitation techniques, high resolution protein analysis using mass spectrometric methods, and mRNA profiling using array technology.

Qualifications include a Ph.D. in Biochemistry, Molecular or Cellular Biology with experience in signal transduction and/or transcriptional regulation. An interest in diabetes and metabolic diseases is preferred. **Requisition #11649AD.**

#### **Optical Spectroscopy Labhead**

The incumbent will be in charge of the optical spectroscopy laboratory which primarily supports the TA medicinal chemistry efforts by providing qualitative and quantitative information of small organic molecules and large biomolecules using FTIR, fluorescence, optical rotation and UV/vis. In addition, you will conduct exploratory/collaborative research in the area of optical spectroscopy and supervise one lab associate.

Qualifications include a Ph.D. in Analytical Chemistry or related fields, with a minimum of 3 years of hands-on experience in instrumental analysis. Familiarity with FTIR, UV/vis, ORD, CD, Fluorescence, Raman and other analytical techniques will be required. Knowledge of medicinal chemistry, biochemistry, biophysics and pharmaceuticals is desirable. Working experience in the pharmaceutical industry a plus. **Requisition #12024AD.**

#### **Sr. Scientist**

The successful candidate will be responsible for establishing a protein expression lab within the biomolecular structure group. The lab will be responsible for designing and generating expression systems (primarily in bacteria and insect cells) for the production of soluble protein for biophysical studies (X-ray, NMR). In addition, the lab will be heavily involved in the scale-up and optimization of fermentation conditions (particularly insect cells), and in the purification of recombinant protein. The lab's activities will be highly coordinated with the protein purification group that shares responsibility for fermentation and purification.

Qualifications include a Ph.D. with at least 2 years of postdoctoral experience in the expression of soluble, recombinant proteins (e.g. cloning, fermentation, expression testing, purification). Experience in developing and optimizing baculovirus expression systems in protein chemistry (purification, protein analytics) is required. Experience in the production of proteins for biomolecular studies (X-ray, NMR), in multi-parallel cloning strategies, cloning automation, and isotopic labeling is beneficial. **Requisition #12013AD.**

#### **Sr. Scientist**

The candidate will carry out computer aided molecular modelling (CAMM) and cheminformatics studies in support of drug discovery efforts as a member of the CAMM group in the Corre Technologies Department. The incumbent will collaborate with scientists whose expertise includes medicinal chemistry, organic synthesis, combinatorial chemistry, lead finding and high-throughput screening, protein NMR spectroscopy and x-ray crystallography, molecular biology, and protein biochemistry - and thus maintain a working understanding of these fields. Additionally, you will interact with therapeutic area-based drug discovery project teams to solve problems, involving target discovery and validation, drug discovery, and drug design and optimization. Monitoring and evaluating computational technologies, and keeping abreast of scientific developments in this field will also fall under your auspices.

Qualifications include a Ph.D. or equivalent experience in a physical or biophysical science (e.g.; chemistry, biochemistry, biophysics, physics, mathematics) with emphasis on computational chemistry or molecular modelling. Applications expertise in CAMM using some of the following techniques: Interactive molecular graphics, molecular mechanics, molecular dynamics, quantum mechanics (molecular orbital methods), multivariate statistics, quantitative structure - activity relationships (QSAR), pharmacophore-based molecular searching and database design, ligand docking, homology modelling, de novo protein structure prediction, protein structural analysis, and software design. Hands-on familiarity with commercial software tools involved in these techniques a plus. Knowledge of modern graphics workstations and servers required; NT and UNIX (IRIS and UNIX), and programming skills are a plus. **Requisition #11575AD.**

# What's possible

## **Principal Analyst/Scientist - Computer Aided Molecular Modelling (Camm)**

The incumbent will be responsible for updating, maintaining, and redesigning the applications software resource of the Core Technologies Department. This software resource is used by the Computer-Aided Molecular Modelling (Camm) Specialists, Structural Biologists, and Medicinal Chemists. You will monitor new developments in the field of computational chemistry and will prototype, propose, and/or introduce/evaluate new tools; as well as conduct training sessions as new tools are introduced. Responsibilities include resource coordination with the Information Knowledge Management at Novartis (IK@N) Department and the user community, coordination with counterparts at other research sites to ensure proper alignment of resources. Web applications will be developed, as appropriate. New software development may also be conducted. Occasional disease area project work may also be expected.

Qualifications include a Ph.D. or equivalent in an area of Computational Chemistry, Molecular Modelling or a related field. The candidate should have extensive experience installing and maintaining Camm software in a UNIX environment and possess system administration level experience. Linux experience would be helpful. Proficiency in at least one area of Camm, with the skills to learn others is expected. Programming skills are expected. The candidate should have adequate knowledge of general chemistry to oversee the resources and communicate effectively with the user community. The candidate should have some familiarity with the more popular Camm software packages, and with recent developments in the Camm field. **Requisition #11319AD.**

## **Sr. Scientist**

The Novartis Drug Discovery Center is looking for a computational chemist to work the in silico screening group. This newly formed group is tasked with establishing a computational environment to aid in the analysis of HTS data, the prioritization of screening and of lead identification. The candidate will be responsible for the implementation and application of High-Throughput Docking methodology. The position offers a challenging opportunity to work directly with a broad diversity of discovery scientists for the structure-based prioritization of screening compounds and the identification of potential leads. The development of new algorithms and analysis tools in collaboration with internal and external partners will continuously be followed.

Desirable qualifications include a Ph.D. and at least two years work experience in the application of docking, protein modeling, structure-based design and homology modeling, as well as a good working knowledge of the UNIX/IRIX operating environment and programming experience using C++, scripting and Perl. The candidate must be able to work within a multidisciplinary team and have strong personal motivation and excellent communication skills. **Requisition #12001AD.**

## **Sr. Scientist**

The Novartis Drug Discovery Center is looking for a computational chemist to work the in silico screening group. This newly formed group is tasked with establishing a computational environment to aid in the analysis of HTS data, the prioritization of screening and of lead identification. The candidate will be a key contributor to the group and needs to be able to work with multidisciplinary teams both in the US and Switzerland. The candidate will be responsible for the design, implementation and running of an HTS data analysis platform. The position offers a challenging opportunity to implement novel techniques for the analysis, reporting, and visualization of HTS and profiling data. The development of new algorithms and analysis tools in collaboration with internal and external partners will be continuously followed.

Qualifications include a Ph.D. and at least two years work experience in computational chemistry focusing on methods development or the application of cheminformatics and QSAR, as well as experience with relational and structural databases, programming and using PL/SQL, C++ and Perl. Expertise in the use of Oracle is a big plus. **Requisition #12002AD.**

## **Post Doc**

The candidate will be responsible for implementing, elaborating and conducting a large-scale appraisal of high-throughput docking (HTD) and related technologies for a newly established in silico screening group in the Novartis Drug Discovery Center (DDC). The project will involve the use of a wide variety of software systems and HTD techniques applied to proprietary and non-proprietary targets and compounds. The position offers a challenging opportunity to work directly with a broad diversity of discovery scientists and an opportunity to establish a credible HTD environment.

Qualifications include a Ph.D. in method development or application of HT docking. A good understanding of the diverse literature with regard to HTD is essential. Knowledge of the UNIX (IRIX/Linux) environment will be required and some programming experience using C++ and Perl. Expertise in Structural Biology is a

bonus. The candidate must be able to work within a multidisciplinary team and have strong personal motivation. **Requisition #11460AD.**

## **Sr. Scientist**

This position will be responsible for directing one of the High - Throughput Screening laboratories in the US Drug Discovery Center. The qualified candidate will be responsible for: development, optimization and miniaturization of assays for high-throughput screening; supervising the screening of synthetic compounds and natural product extracts in biochemical and cellular assays; analysis and reporting of screening results to therapeutic area programs; and identification and evaluation of new automation, equipment and assay technologies. The candidate must work effectively in a global team environment.

Qualifications include a Ph.D. in Biochemistry, Biology, or related discipline, with 3-5 years experience in the pharmaceutical industry. Must possess at least 2 years experience in the area of High - Throughput Screening or Lead Finding. Expertise in biochemistry and enzymology is desired. The candidate should have experience utilizing multiple types of assay technology platforms for HTS. **Requisition #11339AD.**

## **Sr. Scientist**

This position will be responsible for directing the protein purification laboratory in the US Drug Discovery Center. The successful candidate must be experienced and proficient in cell scale-up, and in protein analysis and purification techniques. The qualified candidate will have experience in scale-up of recombinant bacterial and cellular clones, and experience in affinity and classical biochemical purification of proteins. Expertise required includes protein expression confirmation, e.g., gel electrophoresis, Western blot analysis and ELISA or similar assay technology, and protein refolding, column chromatography and other protein fractionation techniques. Experience in bacterial/yeast fermentation and mammalian or insect cell culture is also required. The successful candidate will interact closely with scientists in assay development in a high-throughput screening environment; therefore, additional experience or familiarity with screening technology is desirable.

Qualifications include a Ph.D. in Biological Sciences, Biochemistry or related discipline, with 3-5 years experience in the pharmaceutical industry. Good communication, interpersonal, and teamwork skills are essential. **Requisition #11338AD.**

## **Sr. Scientist/Fellow**

Major responsibilities will include the design, synthesis, purification and identification of appropriate quantities of novel chemical entities in support of various cancer drug discovery programs. The individual will collaborate/interact with a broad group of scientists in Oncology Research as well as other areas in Novartis, and with various outside collaborators. These scientists will include biologists, molecular biologists, medicinal chemists, protein and peptide chemists, and a variety of personnel in the Core Technology Group.

Qualifications include a Ph.D. in Organic or Medicinal Chemistry and 2 or more years postdoctoral experience in the synthesis of complex molecules. Must possess thorough training in and familiarity with modern separation and analytical methods. Previous experience in cancer and/or chemotherapeutic drug development is a plus. Computer literacy and familiarity with a variety of appropriate chemistry-related software packages and some modelling experience is preferred. Ability to coordinate research efforts with other team members. **Requisition #11403AD.**

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Please email your resume as a 'Microsoft Word' attachment to [rd@recruitmentsolutions.com](mailto:rd@recruitmentsolutions.com). Include in your email message the following information: 1. In the subject area and in the main copy of your email, reference the requisition # (4 digit req#) for sorting purposes. 2. In a brief note or cover letter, indicate where core competencies align with requisition. As an alternate method of submission, you may fax your resume and cover letter to: **800-343-8850**. If you would like to know more about openings available at Novartis, please visit our website at: [www.joinnovartis.com](http://www.joinnovartis.com). We are an equal opportunity employer M/F/D/V. Principals only.

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• **Director, Medicinal Chemistry**

**Reports to:** V. P. of Chemistry

**Supervises:** Discovery Chemistry Group

**Responsibilities:** This individual will be responsible for directing our medicinal chemistry group in the preparation of small molecule therapeutics targeted to zinc finger-containing proteins and peptides. You will lead a group of medicinal chemists seeking to design, optimize, and synthesize novel anti-infective agents utilizing both classical medicinal chemistry and modern combinatorial chemistry approaches. The Director will interface with computational chemistry, virology, and molecular biology teams seeking to discover and advance novel therapeutics.

**Education and Training:** The position requires a Ph.D. in medicinal or organic chemistry and a proven track record of accomplishment in synthetic organic chemistry. Significant experience in an industry environment as a key member of a drug discovery team is highly desirable. A broad appreciation of biology and medicine and the ability to integrate input from these areas into team goals is also necessary. Significant achievement in these areas should be evidenced by a track record of presentations and publications.

• **Scientist, Assay Development and High Throughput Screening**

**Reports to:** Director, Exploratory Biology and Screening

**Supervises:** Research Associates and/or Research Assistants

**Responsibilities:** Scientist will work to establish screening capabilities, develop and transition molecular assays for virologic, microbiological, and cellular targets into high throughput formats, and oversee screening operations. Position will interact with virology and microbiology teams to provide assistance and expertise in the development and implementation of high throughput cell-based screens.

**Education and Training:** Requires a PhD in biochemistry, molecular biology, cell biology or related discipline. Exceptional candidates with an MS degree and equivalent relevant work experience in the pharmaceutical industry will be considered. Experience in automating assays, use of automated screening systems, and biological database software packages is required. Experience in developing assays applicable to the areas of enzymology, protein-nucleic acid interactions, and cell-based assays is desirable. Strong data interpretation and quantitative analysis skills are necessary.

• **Research Scientist, Antimicrobial Drug Discovery**

**Reports to:** Director of Antimicrobial Drug Discovery

**Supervises:** Research Associates and/or Research Assistants

**Responsibilities:** The successful candidate will be a member of our antimicrobial drug discovery team. This individual will be responsible for fungal target identification and characterization and for the development of assays for the purpose of identifying lead compounds for further progression as drug candidates.

**Education and Training:** Requires a Ph.D. in Biology/Microbiology/Biochemistry/Molecular Biology or a related discipline. Exceptional candidates with an M.S. and equivalent relevant work experience will be considered. Must have experience with yeast molecular biology. Microbiology or biochemistry experience is a plus. A willingness to work with infectious agents and radioactive materials is required.

All successful candidates should possess the following personal characteristics: self-motivation with the ability to multi-task and be committed to quality. Strong oral and written communication skills are required. Must be able to work effectively within a team and be able to drive several projects simultaneously.

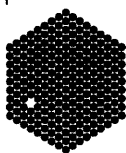


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**EMBL**

**Monterotondo**  
nr. Rome, Italy

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

**POSTDOCTORAL POSITIONS (ref. 01/PD/12)**

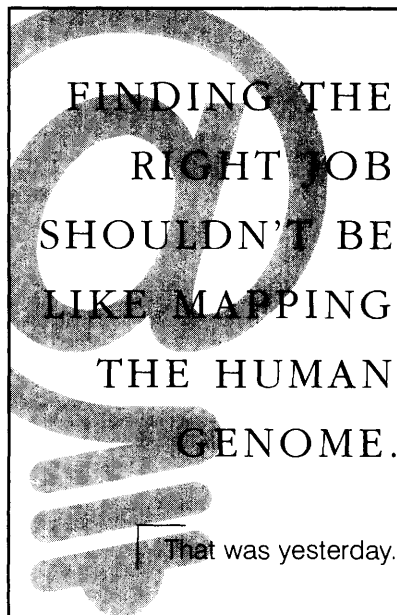
The Mouse Biology Programme of EMBL in Monterotondo, Italy is seeking postdoctoral scientists to join its rapidly expanding Research Programme. Candidates are invited to apply for the five groups using mouse genetic model systems in the study of cardiac and skeletal muscle development and regeneration (Nadia Rosenthal); the role of the actin cytoskeleton in mouse physiology (Walter Witke); the role of neurotrophin receptors in nervous system development and function (Liliana Minichiello); transcriptional control of cell fate by C/EBP proteins (Claus Nerlov); the role of NF- $\kappa$ B in development and disease (Manolis Pasparakis). A sixth group leader will be appointed in 2002. The EMBL Mouse Biology Programme is located on the Campus Adriano Buzzati-Traverso, together with the European Mouse Mutant Archive (EMMA) and the Cell Biology Institute of the CNR.

Further information about EMBL and the facilities on site can be obtained from our web-site: [www.embl-heidelberg.de](http://www.embl-heidelberg.de) and [www.embl-monterotondo.it](http://www.embl-monterotondo.it)

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

Please submit a full CV, summary of past research experience and arrange for two letters of recommendation to be sent, quoting ref. no. 01/PD/12, to:

**The Personnel Section, EMBL, Postfach 10.2209, D-69012 Heidelberg, Germany.**  
**Fax: +49 6221 387555; email: [jobs@embl-heidelberg.de](mailto:jobs@embl-heidelberg.de)**



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## POSTDOCTORAL FELLOWSHIPS IN ENVIRONMENTAL STATISTICS

The University of Chicago anticipates major funding from the U.S. Environmental Protection Agency (EPA) for a national Center for Integrating Statistical and Environmental Science. Listed below are the initial projects to be investigated by scientists associated with the center. We are seeking postdoctoral research associates who are interested in one or more of these projects.

**1. Air quality and reported asthma incidence in the state of Illinois:** This project studies ground-level ozone and asthma incidence and will construct detailed spatio-temporal models of ozone including its relationship to meteorological conditions, solar radiation, and other trace gases. Predicted values from these models will then be used as explanatory variables in an analysis of time series of asthma incidence in neighborhoods of the Chicago metropolitan area.

**2. The detection of a recovery in stratospheric and total ozones:** A downward trend in the total atmospheric ozone abundance since 1970 is firmly established, but the recent phaseout of ozone depleting substances should be accompanied by a slowing of the decline followed by an increase thereafter. This project addresses the statistical problem of early detection of the predicted turnaround in stratospheric and total ozone using ground-based networks and satellite-based data sets.

**3. Quasi-experimental evidence for the impacts of small and large airborne particulates on infant health:** This project will apply quasi-experimental statistical techniques to provide new evidence on the relationship between airborne particulate matter and infant health. It will also generate estimates of the health benefits of the Clean Air Act Amendments.

**4. Integrating numerical models and statistical methods:** Deterministic models and statistical analyses of environmental monitoring data provide two entirely different approaches to studying the physical environment. Using case studies in air quality modeling and lake hydrodynamics, this project seeks to develop statistical and computational methods for combining these approaches.

**5. Model selection and complex ecological data sets:** Model selection is a key issue in ecology, yet classical likelihood approaches are often inadequate when faced with realistic ecological models. Researchers on this project seek to develop methods of model selection that can be applied to complex stochastic models incorporating spatial structure and other forms of ecological heterogeneity.

For all projects, the individuals hired will work with an interdisciplinary team of faculty from the University of Chicago, scientists from the EPA, and researchers from other institutions such as the Argonne National Laboratories. Individuals hired will have access to state of the art computing facilities, and will be housed together to foster collegiality. Salaries and benefits are competitive with similar positions elsewhere. For more information, see (<http://galton.uchicago.edu/ciseprojects/>). Ph.D in statistics, or in related field with strong statistical background, is required.

Send a C.V. a statement of research interests, and contact information for 3 references to: **Center for Integrating Statistical and Environmental Science, Department of Statistics, 5734 S. University Avenue, Chicago, IL 60637.**

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Vitamine

## Postdoc/«Genomics»

### Who we are

Roche is the world's biggest producer of vitamins and carotenoids after nature itself. Our Vitamins and Fine Chemicals Division studies, produces and markets active additives for use in the animal feed, food, pharmaceutical, and cosmetics industries. At the Division's headquarters in Kaiseraugst near Basel, Switzerland, the Biotechnology department is seeking a Postdoc.

### The position

The selected candidate will apply array-based methods and other genomic tools to the study of gene expression in microorganisms with the goal to engineer improved production strains for fine chemicals. The candidate will be part of a multidisciplinary team also covering proteomics and metabolomics that will establish an integrated functional genomics approach for the better understanding of the physiology of such microorganisms.

### Who you are

We are looking for a Ph. D. in genetics/genomics/molecular biology with proven experience in expression profiling (microarray technology), bioinformatics, and data mining. You should be dedicated to work in an interdisciplinary team. Desirable is your knowledge of microbial physiology.

### Who to contact

If the above profile fits your background and experience and you are interested in this position, please forward your full application documentation to: Roche Vitamins Ltd, Mr Michael Maier, VH, Building 241/705, P.O. Box, CH-4070 Basel, quoting reference MA4748. For further information please contact Mr. Markus Wyss, Tel 0041-61-688 29 72.

# Director of Research and Professor of Ophthalmology



## The Schepens Eye Research Institute Harvard Medical School Faculty Position



The Schepens Eye Research Institute and the Harvard Department of Ophthalmology are seeking an outstanding scientist to join the faculty as Full Professor of Ophthalmology and as Ankeny Director of Research at The Institute. The Director of Research provides academic and scientific leadership for a faculty comprised of 35 laboratory scientists, 20 clinical scientists, more than 60 pre- and post-doctoral trainees, and a technical staff in excess of 50. The Director of Research oversees an operating budget for research of approximately \$18 million per annum, and takes primary responsibility for (a) developing strategic initiatives in research, (b) promoting research for individual scientists and collaborative groups, (c) evaluation of the research enterprise, (d) ensuring high quality training experiences for young scientists and technical staff, (d) development of technology transfer opportunities, (e) governance of faculty affairs, (f) supervision of research administration and resources, and (g) promoting communication within the Institute and between the Institute and the larger scientific community.

We seek in the successful candidate a scientist with a national and international reputation for excellence and scientific accomplishment, a scientist with an M.D. and/or Ph.D. degree whose knowledge and interests are sufficiently broad to embrace a wide range of research questions in ophthalmology and vision and who can maintain a vigorous personal research laboratory and program, and an individual with academic leadership experience who can create, nurture and maintain collaborative research groups.

Important unsolved problems in vision research currently being pursued at the Institute include ocular surface diseases, ranging from dry eye syndromes to corneal dystrophies and degenerations; glaucoma; age-related retinal diseases, such as macular degeneration; diabetic retinopathy; retinal transplantation; corneal reconstitution and transplantation; control of angiogenesis; ocular immune privilege and uveitis; non-invasive evaluation of retinal function and disease processes; low vision aids and rehabilitation.

Applicants should send their *curriculum vitae* and statement of research interests to:

J. Wayne Streilein, M.D.  
President, The Schepens Eye Research Institute  
Charles L. Schepens Professor of Ophthalmology, Harvard Medical School  
20 Staniford Street  
Boston, MA 02114-2500

*SERI and Harvard Medical School are Equal Opportunity/Affirmative Action Employers. Women and minorities are encouraged to apply.*

### Assistant Professor of Biochemistry and Molecular Biophysics University of Arizona, Tucson

The Department of Biochemistry and Molecular Biophysics at the University of Arizona invites applications from outstanding candidates for a tenure track faculty position in the areas of enzymology, signal transduction, membrane biochemistry or metabolic regulation, both at the enzyme and gene level. The department has appointed four new faculty in the last two years and expects to add several more over the next few years. The University of Arizona and the Department offer excellent facilities and a supportive collegial environment to foster development of exceptional academic careers. The successful candidate will be offered a competitive start-up package for equipment and other resources. Research space for this position will be located in the College of Medicine on the University of Arizona campus. The successful candidate will be expected to develop an outstanding research program and to display a commitment to teaching excellence. The Department is responsible for the undergraduate biochemistry degree, participates in the training of medical students and plays a major role in graduate education. The department participates in the Biochemistry and Molecular and Cellular Biology (<http://bmcb.biology.arizona.edu/>) and Biological Chemistry (<http://www.biochem.arizona.edu/bcp/>) graduate programs and a number of faculty members participate in Interdisciplinary Graduate Programs (<http://w3.arizona.edu/~gidp/>). Biochemistry faculty members are also involved in the Institute for Biomedical Science and Biotechnology (<http://www.biochem.arizona.edu/IBSB/default.html>). Visit our departmental web site at <http://www.biochem.arizona.edu/> or the University of Arizona Human Resources Department web site at [www.hr.arizona.edu](http://www.hr.arizona.edu) for more information.

Evaluation of applications will begin on January 22, 2002 and will continue until the position is filled. Applicants must hold a Ph.D. or equivalent degree and have postdoctoral experience. A letter of application, curriculum vitae, bibliography, a description of future research of not more than three-pages, plus three letters of recommendation (sent under separate cover) should be addressed to: Chair, Biochemistry Faculty Search Committee, c/o Helen Markes, Department of Biochemistry and Molecular Biophysics, BioSciences West Bldg., Rm. 362A, P.O. Box 210088, The University of Arizona, Tucson, AZ 85721-0088.

*The University of Arizona is an EEO/AA Employer M/D/W/V*

### Sigfried and Janet Weis Center for Research Geisinger Clinic STAFF AND SENIOR SCIENTISTS

The Weis Center for Research is seeking outstanding candidates for Staff Scientist (equivalent to Assistant or Associate Professor) and/or Senior Scientist (equivalent to Professor) positions. We are seeking candidates with proven records of accomplishment in conducting innovative research at the molecular, cellular or genetic level. While applicants working in all areas will be considered, individuals whose research is in the areas of cardiovascular biology, cancer biology, or neuroscience will be given preference. Applicants should have a Ph.D. and/or M.D. degree and two or more years of postdoctoral training. Candidates for Senior Scientist positions are expected to have a history of extramural funding. Physician candidates are eligible for joint appointment in an appropriate clinical department. The Weis Center is located on the campus of the Geisinger Medical Center, a tertiary care teaching hospital. The medical center is located in an attractive semi-rural community that affords an outstanding quality of life plus convenient access to major metropolitan areas. Substantial resources are available for start-up and ongoing research support. Qualified individuals should submit curriculum vitae, statement of research interests and the names and addresses of three references to: Ms. Kristin Gaul (DJC), Sigfried and Janet Weis Center for Research, Geisinger Clinic, 100 North Academy Avenue, Danville, PA 17822-2600.

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# Max Planck Institute for Evolutionary Anthropology



Max-Planck-Gesellschaft

The Department of Primatology within this institute is looking for qualified staff for the following vacancies:

## Post-Doctoral Position (Endocrinology of Wild Apes)

This person should be interested in conducting a project involving endocrinology research using non-invasively collected samples (urine and feces) from wild populations of chimpanzees, gorillas and gibbons. The goal is to integrate this project with ongoing behavioral and genetic investigations of the reproductive strategies of wild ape populations and assess the feasibility of doing this in our laboratory. The successful candidate should have extensive experience in endocrinology research, including assay development and validations, and the latest methodologies of this field.

Furthermore the institute has an opening for:

## Assistant/Associate Professor Position

The Department of Primatology would like to increase the strength of its field-research based understanding of apes by adding a mathematical oriented/modelling approach to solving questions related to the biology of these species. Central questions of interest are related to the evolution of sociality, relatedness, evolution of cooperation and intelligent behaviour. The candidate should have a strong background in mathematics and modelling and have experience in applying these techniques to biologically relevant questions. Collaboration with existing projects is a main goal for this position but the candidate will be expected to conduct independent projects as well. Candidates should possess a Ph.D., demonstrated ability to plan and execute models applied to biological systems, and an interest in the evolution of sociality and culture.

For more information about these two vacancies please have a look on our homepage: [www.eva.mpg.de/primat/](http://www.eva.mpg.de/primat/). The Max Planck Institute is a cosmopolitan English-speaking environment with up to 70 scientists. Salary and benefit are according to the German BAT system. Please send your CV, statement of research interests, and a list of references to:

### Max-Planck-Institut für evolutionäre Anthropologie

Kennzeichen: Primatologie  
Personalabteilung  
Inselstraße 22  
D-04103 Leipzig/Germany



## Staff Scientist

Primate Neurobiology Core Facility  
Mood and Anxiety Disorders Program  
National Institute of Mental Health  
National Institutes of Health  
Bethesda, MD, USA

The Intramural Research Program of the National Institute of Mental Health, invites applications for a Staff Scientist position to manage the NIMH Primate Neurobiology Core Facility at Poolesville; Maryland. The incumbent will be expected to play a key supervisory role for the multiple diverse studies that will be conducted at the Core Facility. The studies will include, behavioral paradigms, brain imaging, as well as genomic and proteomic studies. The incumbent will also be expected to participate in training and supervising technicians, advising/training "clients" and managing databases. In addition, the successful candidate will perform independent research and collaborative scientific studies. The successful candidate should have a Ph.D. or M.D. degree and an established record of scientific accomplishments as well as demonstrated organizational, managerial and teaching skills. Preference will be given to applicants with: 1) 4 or more years of experience in primate behavioral studies, 2) a strong background in primatology or ethology, and 3) familiarity with primate pharmacological studies. Salary is very competitive and consistent with the level of experience of the candidate. The position will include an operating budget in an exciting multidisciplinary research environment.

Applicants should send a curriculum vitae, statement of research interests, and have three letters of recommendation sent, by April 1, 2002 to: Dr. Hussein K Manji, Chair, Search Committee for Primate Neurobiology Core Facility, NIMH, Bldg. 49, Room B1E16, 49 Convent Dr MSC 4405, Bethesda, MD 20892-4405.



The National Institutes of Health is an equal opportunity employer

## 2 Predoctoral Fellowship Positions at the National Institutes of Health

Two predoctoral fellowship positions are available at the Unit of Affective Cognitive Neuroscience, Mood and Anxiety Disorders Program, National Institute of Mental Health, NIH. The research focus of the Unit on Affective Cognitive Neuroscience is the study of the neuro-chemical and neuro-cognitive systems implicated in anxiety and psychopathic disorders. Projects will involve psychopharmacological, neuro-imaging studies and neuropsychological studies with both child and adult patients.

The successful candidates must have a B.Sc. in Psychology, Neuroscience or a related discipline. The positions are located within the NIMH Intramural Research Program, in Bethesda, MD. Salary will be commensurate with NIH guidelines and experience.

Please email or send CV and three letters of references to: Dennis Charney, M.D.  
Program Director, Mood and Anxiety Disorders Program  
15K North Drive, room 101  
Bethesda, Maryland 20892-2670  
Email: [charneyd@nih.gov](mailto:charneyd@nih.gov)



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## Senior Investigator/Investigator

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Working in our Discovery Medicine department, you will design, conduct and analyze *in vitro* / *ex vivo* studies related to cardiovascular biology. Under minimal supervision, you will prepare experimental protocols and write up reports and draft scientific manuscripts on results, as well as communicate experimental methods and results at group and team meetings. You will also keep abreast of literature in relevant research areas and be able to identify new opportunities. Setting work schedules and coordinating support staff to meet deadlines are also duties. Your Ph.D. in Biology, Biochemistry, Molecular Biology or equivalent scientific discipline is necessary, as is 3 years of laboratory experience. Familiarity with molecular/cellular biology and biochemical laboratory techniques involving the manipulation of proteins, nucleic acids and cells is essential (e.g. tissue culture, nucleic acid and protein gel electrophoresis, enzyme assays, nucleic acid purification from cells or tissues etc.). Experience with computer software including Excel, graphics programs, statistics programs, and data acquisition is also required.

GlaxoSmithKline is dedicated to an innovative workplace and supports you with career long opportunities and learning. We offer a competitive benefits and compensation package designed to attract and retain the very best. For confidential consideration, please mail your resume to: GlaxoSmithKline, Job Code: 01-2110, P.O. Box 40047, Philadelphia, PA 19106. Indicating Job Code is essential. Principals only, no agencies, please. For a full listing of current opportunities or to submit a resume online, visit our Web site at [www.gsk.com](http://www.gsk.com).

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## Cardiac MRI Staff Scientist in National Heart, Lung and Blood Institute National Institutes of Health, USA

An MRI staff scientist position is open at the Laboratory of Cardiac Energetics, National Heart, Lung, and Blood Institute, NIH, in the field of cardiac magnetic resonance imaging with Dr. Andrew Arai. The NHLBI is one of the premier research sites of cardiac MRI with several clinical human scanners dedicated to this field, and very active programs in technical development and clinical evaluation. These include quantitative assessments of cardiac function, perfusion and viability. Rapid real-time imaging and interventional procedures are also being explored. The NIH campus is located in Bethesda, Maryland, a town close to the culturally active Washington DC metropolitan area as well as the scenic Potomac River and Chesapeake Bay.

The appointee will be supporting the clinical group by developing and maintaining software for magnetic resonance image display, analysis and storage, with the aim of patient applications. A Doctoral or Master's degree with at least 3 years of experience in computer-based image processing is required. Familiarity with the computer language IDL, databases, medical image formats (DICOM) and network administration is desirable.

The successful candidate will be offered a competitive salary commensurate with experience and qualifications under Title 42. Appointees must be US citizens, resident aliens, or nonresident aliens with a valid employment-authorized visa.

Applicants should submit a letter of interest, curriculum vitae and should arrange for three letters of recommendation to be sent to:

**Christine Fisher, Human Resources Specialist  
Human Resources Branch**

**NIH/National Heart, Lung, and Blood Institute  
31 Center Drive, MSC 2484, Bldg. 31, Rm. 5A28  
Bethesda, MD 20892-2484 USA**

**(301) 496-6477; fishercm@nhlbi.nih.gov**

Please include vacancy identifier, HL-01-0151 on ALL correspondence. Applications must be received no later than January 4, 2002.

The NIH is an Equal Opportunity Employer. Applications from women, minorities, and persons with disabilities are strongly encouraged. The NHLBI/NIH is a smoke-free environment.

focus on CAREERS

## FACULTY POSITIONS

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For more information call Daryl Anderson:

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**Tenure-Track Position  
National Institutes of Health (NIH)  
National Institute of Child Health  
and Human Development (NICHD)**

The newly created Laboratory of Clinical Genomics (LCG), NICHD, NIH is offering a tenure-track investigator position to develop independent research programs. We seek outstanding applicants specifically interested in human and clinical genetics and molecular pathophysiology of disease. The successful candidates will have established strong research credentials with a substantial record of quality publications. A tenure-track investigator will be supported for up to six years before tenure is required. Candidates should send a two-page statement of research interests and goals, CV, bibliography and three letters of recommendation by February 1, 2002 to:

**Dr. Juan Bonifacio  
Chairperson, LCG Search Committee  
Cell Biology and Metabolism Branch, NICHD  
31 Center Drive  
Bldg. 31, Room 2A46  
Bethesda, MD 20892-2425**

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**Postdoctoral Fellowship Positions  
at the National Institutes of Health**

Postdoctoral fellowship positions are available at the Unit of Behavioral Genetics, Laboratory of Molecular Pathophysiology, National Institute of Mental Health. The research focus of the Unit on Behavioral Genetics is the study of the molecular basis of neuronal plasticity and behaviors. Projects will involve the dissection of signaling pathways using the methodologies of conditional knockouts. In addition to conventional molecular biology and histochemistry research methodologies, immediate accessible research facilities include cDNA microarray, laser capture microdissection, neuroLucida and stereo investigator for histochemical experiments, and confocal microscopy. The successful candidate must have a Ph.D. in Molecular Biology, Genetics, Neuroscience or related discipline, and less than five years of postdoctoral research experience. Preference will be given to individuals with experience in the study of animal behaviors. The positions are located within the NIMH Intramural Research Program, in Bethesda, Maryland. Salary will be commensurate with NIH guidelines and experience.

Please send CV and names of three references by January 31, 2002 to: Hussein Manji, M.D.

Chief, Laboratory of Molecular Pathophysiology  
National Institute of Mental Health  
Bldg. 49, Rm. B1EE16  
49 Convent Drive MSC-4405  
Bethesda, MD 20892-4405  
ManjiH@intra.nimh.nih.gov



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**UNIVERSITY OF MICHIGAN MEDICAL SCHOOL**

**Endowed Professorship  
in  
Type I Diabetes Research**

The University of Michigan Medical School invites applicants for the Brehm Professorship in Type I Diabetes Research. The successful candidate will be a distinguished scientist with an outstanding record of achievement in research focusing on the cure or prevention of Type I diabetes. Areas of interest could include molecular and cellular immunology, molecular biology of stem and progenitor cells, beta cell biology, genetics, genomics or proteomics. Candidates must have an M.D. and/or Ph.D. degree, and an active research program. Individuals engaged in clinical or translational research are also encouraged to apply.

The recipient of the Brehm Professorship is expected to play a major leadership role in promoting the growth of research activities in Type I diabetes at the University of Michigan. Qualified applicants will have a commitment to scientific collaboration. Primary department affiliation and faculty academic rank will be determined by the applicant's qualifications.

Applicants should send current curriculum vitae and a short summary of research interests to:

**Alan R. Saltiel, Ph.D.  
Chair, Search Committee  
University of Michigan Medical School  
4520 MSRB I  
1150 W. Medical Center Dr.  
Ann Arbor, MI 48109-0650**

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**RESEARCH SCIENTIST**

This exciting position will be responsible for designing and implementing new research projects in bone cell/molecular biology. Duties include staff mentoring, writing scientific papers, experimental design and grants.

In addition to a Doctorate degree and a minimum of 3 years experience as a post doctoral fellow, the candidate must have demonstrated experience with molecular techniques.

We offer an excellent salary and benefits package. For consideration, please send/fax your resume to: Dr. Ernesto Canalis, Director Department of Research, Saint Francis Hospital and Medical Center 114 Woodland Street, Hartford, CT 06105. Fax: 860-714-8053. TTY: 860-714-4447, E-mail: ecanalis@stfranciscare.org Visit our website at <http://www.stfranciscare.org>

If you do not have access to the Internet, please contact the Human Resource Call Center at its toll-free number: 1-877-250-9570 24 hours a day, 7 days a week.



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## POSITIONS OPEN

### FACULTY POSITIONS University of Washington

The newly formed Department of Genome Sciences at the University of Washington, a merger of the Departments of Genetics and Molecular Biotechnology, invites applications for two faculty positions. Research in the Department encompasses both model organism genetics and human/medical genetics and includes a strong focus in computational biology and in technology development.

At the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR**, we are searching for an Experimental Biologist. The area of research is open, but we are especially interested in individuals who address biological questions at the genomewide level or who exploit or develop new technologies. Contact:

**Dr. Stan Fields**  
Acting Chair  
Department of Genome Sciences  
University of Washington  
Box 357730  
Seattle, WA 98195

At the rank of **ASSISTANT, ASSOCIATE**, or **FULL PROFESSOR**, we are looking for an individual whose primary focus is computational biology. Contact:

**Dr. James Thomas**  
Department of Genome Sciences  
University of Washington  
Box 357730  
Seattle, WA 98195

Applicants should hold a Ph.D. or M.D. degree. Candidates should send curriculum vitae, a statement of research and teaching interests, and arrange to have three letters of reference sent. Applications will be reviewed upon receipt until January 12, 2002. For additional information that may be helpful in preparing an application, see the Department's website: <http://www.gs.washington.edu/>.

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

### ASSISTANT/ASSOCIATE PROFESSOR

The Division of Research in the Department of Gynecology and Obstetrics solicits application for tenure-track faculty appointment in maternal-fetal medicine-related research. The applicant must have an M.D. or Ph.D. degree and at least five years of postdoctoral experience. Topics of our research interest include fertilization, implantation, pregnancy, maternal-fetal transport, and any other related topics. Minority/women candidates with current NIH support or with a strong, independent research program will be preferred. Please submit your application and résumé with names of three references before January 15, 2002, to: **Dr. Sampath Parthasarathy**, Department of Gynecology and Obstetrics, Emory University, Atlanta, GA 30322. E-mail: [spatha@emory.edu](mailto:spatha@emory.edu). Emory University is an Equal Opportunity Employer.

### SENIOR RESEARCH SCIENTIST/ ASSISTANT PROFESSOR

#### North Shore-Long Island Jewish Health System

Exciting opportunity to join an expanding group studying the molecular functions of tumor suppressors (e.g., the BRCA1 gene) and oncogenes (scatter factor and e-Mel receptor) in carcinogenesis. Candidates should have a Ph.D. in molecular or cellular biology and at least three to four years of postdoctoral experience. Competitive salary commensurate with experience and qualifications. Send curriculum vitae to: **Nancy McCarthy**, Department of Radiation Oncology, Long Island Jewish Medical Center, 270-05 76th Avenue, New Hyde Park, NY 11040. Long Island Jewish Medical Center is a teaching affiliate of the Albert Einstein College of Medicine. Equal Opportunity Employer. Minorities/Females/Disabled/Veterans.

## POSITIONS OPEN

### FACULTY POSITION GENOMICS

The Department of Nutritional Sciences and Toxicology, University of California at Berkeley, is seeking an **ASSISTANT/ASSOCIATE/FULL PROFESSOR** of nutritional sciences or toxicology for a nine-month, tenured position starting July 1, 2002. The appointee is expected to have a well-developed research program in the application of genomics methodology to human nutrition and/or toxicology commensurate with the level of appointment. Areas of interest include but are not limited to genomic analysis of the influences of nutrients and toxins on reproduction, development, and aging; the interaction of diet and genetic polymorphisms on susceptibility to chronic disease; and the identification of genomic markers of individual nutrient requirements and susceptibility to toxic agents. The appointee may work with graduate students seeking advanced degrees in nutrition, molecular toxicology, comparative biochemistry, endocrinology, and related fields. The applicant should hold a Ph.D. or equivalent degree with training and experience in nutritional science, toxicology, genetics, genomics, molecular biology, computational biology, or related biological science. The applicant should have experience in effective classroom teaching and possess a well-established research program of demonstrated excellence, preferably in the area of genomics commensurate with the level of appointment. Teaching assignments will include contributions to an undergraduate course in the area of nutrition or toxicology and to a graduate course in the appointee's area of expertise. Applications should be sent to: **Barry Shane**, Chair, Genomics Search Committee, Department of Nutritional Sciences and Toxicology, 119 Morgan Hall, University of California, Berkeley, CA 94720-3104 and should include curriculum vitae; a statement of research interests; copies of up to three publications related to current research interests; and a brief description of teaching and professional experience. Applicants should submit the names of at least three references who are able to evaluate their research and teaching potential. Application deadline: January 31, 2002. Applications submitted after the deadline will not be considered. The University of California is an Equal Opportunity/Affirmative Action Employer.

**POSITIONS AVAILABLE.** The Department of Biological Sciences at Chicago State University seeks to fill four tenure-track positions starting August 2002. Ph.D. required in the following areas: human anatomy, cell physiology, organ physiology, and plant biology. Responsibilities include teaching introductory and upper-level courses and developing research programs involving undergraduate and Masters' students. Send letter of application, curriculum vitae, and contact information for three references to: **Dr. Floyd W. Banks**, Search Committee Chair, Department of Biological Sciences, Chicago State University, 9501 South King Drive, Chicago, IL 60628-1598. Review of applications will begin January 31, 2002, and continue until positions are filled. Chicago State University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

**WATER QUALITY FACULTY POSITION.** Rutgers, The State University of New Jersey. Rutgers University invites applications for a tenure-track faculty position (**ASSISTANT PROFESSOR/EXTENSION SPECIALIST**) to develop a program of extension, research, and teaching in water management issues. Ph.D. required. Additional information can be found at website: <http://www.rce.rutgers.edu>. Application deadline is 10 January 2001 with applications reviewed until the position is filled. Send curriculum vitae, statement of research and extension objectives, and names and addresses of five references to: **Dr. Thomas J. Orton**, Chair, Department of Extension Specialists, 88 Lipman Drive, New Brunswick, NJ 08901-8525. Rutgers University is an Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### ASSISTANT OR ASSOCIATE PROFESSOR GENETICS McMaster University

McMaster University, a research-intensive institution and leading center for biological and biomedical research, invites applications for a tenure-track position at the Assistant or Associate Professor level in the Department of Biology effective July 1, 2002.

Candidates must hold a Ph.D. in genetics or a related field, possess at least one year of postdoctoral experience, and have a productive research record in an area of eukaryotic genetics. We encourage applications from a broad range of individuals applying genetic or genomic approaches to the study of biological questions. Research interests include but are not limited to basic genetic processes (such as recombination or mutagenesis and DNA repair) and conservation genetics.

The successful applicant will be expected to establish and maintain an independent and externally funded research program as well as contribute to the education of undergraduate and graduate students.

Applicants should submit curriculum vitae, a statement of their research goals, a statement of their teaching interests and experience, and three of their most important publications. Applicants should arrange for three letters of recommendation to be sent to: **Dr. Turlough Finan**, Professor and Chair, Genetics Search Committee, Department of Biology, McMaster University, 1280 Main Street West, Hamilton, Ontario L8S 4K1 Canada. The closing date for applications is February 15, 2002. See website: <http://www.science.mcmaster.ca/Biology/Dept.html>. All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority. McMaster University is committed to Employment Equity and encourages applications from qualified candidates including members of visible minorities, aboriginal peoples, persons with disabilities, and women.

### COMPARATIVE GENOMICS

The Department of Biological Sciences, Idaho State University (website: <http://www.isu.edu/departments/bios/>), seeks applicants for an **ASSISTANT PROFESSOR** position beginning August 2002. Candidates must hold a Doctorate (postdoctoral experience preferred) and have ability to supervise students from the undergraduate to doctoral levels. The successful candidate will be expected to develop a vigorous, externally funded research program and will participate in the Biomedical Research Infrastructure Initiative (BRIN-NIH) in Idaho. Teaching responsibilities include advanced courses in comparative genomics, molecular evolution, and computational biology. We seek a collaborative individual who will establish a research program exploring fundamental evolutionary questions in genomics and bioinformatics. Candidates working with any combination of laboratory or computational methods should apply. Send applications including statements of research interest and contributions, curriculum vitae, and four letters of reference by 31 January 2002 to: **Laurens Smith**, Chair of Genomics Search Committee, Biological Sciences, Idaho State University, Pocatello, ID 83209-8007. Idaho State University is an Equal Opportunity/Affirmative Action Employer.

### ASSISTANT PROFESSOR PLANT GENOMICS

This 12-month, tenure-track position (Number 935510) in plant genomics (80% research; 20% teaching) in the School of Forest Resources and Conservation, Institute of Food and Agricultural Sciences, University of Florida, is part of the Genetics Institute (website: <http://www.ufgi.ufl.edu>). Opportunities exist for cooperative research on forest biology projects (website: <http://www.sfrc.ufl.edu/announce.html>). Contact: **Dr. John Davis**; Telephone: 352-846-0879; e-mail: [jmdavis@ufl.edu](mailto:jmdavis@ufl.edu). Formal review of applications will begin January 25, 2002. The University of Florida is an Equal Opportunity/Equal Access/Affirmative Action Employer. Women and minorities are encouraged to apply.

## THE UNIVERSITY OF HONG KONG

香 港



大 學

The University of Hong Kong is a leading international comprehensive research university in the Asia-Pacific region, with more than 100 teaching departments and sub-divisions of studies and learning, and more than 60 research institutes and centres. There is currently an enrolment of more than 17,000 students (6,500 at postgraduate level). Research students are from more than 48 countries. The medium of instruction is English. The University is committed to its vision of globalisation, together with excellence in scholarship and research.

### Assistant Professor in the Department of Zoology

Applications are invited for appointment as Assistant Professor in the Department of Zoology (Ref: RF-2001/2002-160), tenable from 1 September 2002. The appointment will initially be made on a three-year fixed-term basis, with the possibility of renewal.

The Department of Zoology is committed to high-quality teaching and research at world-class standard in experimental biology, biotechnology, food and nutritional science. Information about the Department can be obtained at <http://www.hku.hk/zoology/>.

Applicants should possess a PhD degree with 2 to 4 years' postdoctoral research experience. He/she will be expected to coordinate teaching in specialised areas in cell technology, nutrition and cancer biology as well as general science subjects; and to carry out research in areas that utilise tissue culture techniques, cell line generation and flow cytometry.

**Annual salary** [attracting contract-end gratuity and University contribution to a retirement benefits scheme, totalling up to 15% of basic salary] for an Assistant Professor (in the grade of Lecturer) is on an 11-point scale, with starting salary depending on qualifications and experience: HK\$581,940 - HK\$972,180\* (approx. US\$74,611 - US\$124,643; US\$ equivalents as at 28 November 2001). \*An appointee with an annual salary at HK\$777,600 (approx. US\$99,700) or above may be considered for the award of the title of Associate Professor on the basis of academic merits and achievements.

At current rates, salaries tax does not exceed 15% of gross income. The appointment carries leave, medical and dental benefits, and, where appropriate, a taxable financial subsidy under the Home Financing Scheme for reimbursing either the actual rental payment or the mortgage repayment up to the relevant maximum entitlement.

**Further particulars and application forms** can be obtained at <http://www.hku.hk/apptunit/> or from the Appointments Unit (Senior), Registry, The University of Hong Kong, Hong Kong (Fax: (852) 2540 6735 or 2559 2058; E-mail: [apptunit@reg.hku.hk](mailto:apptunit@reg.hku.hk)). **Closes 26 January 2002.**

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enjoys a smoke-free environment*

### Postdoctoral Fellowship Molecular Imaging Branch National Institute of Mental Health, NIH Bethesda, MD, USA

The Molecular Imaging Branch at the National Institute of Mental Health, NIH, has a postdoctoral fellowship immediately available for a duration of one to three years. This new branch has embarked on a major neuroimaging program using state of the art PET (positron emission tomography) techniques and newly developed radioligands to study molecular/protein targets in the brain. New radioligands will be developed and evaluated with PET imaging of animals (mice and monkeys), extended to healthy subjects and then to patients with neuropsychiatric disorders, including schizophrenia, mood disorders, and neurodegenerative disorders such as Alzheimer's disease and Parkinson's disease. Examples of ongoing projects are the development of in vivo probes for amyloid, evaluated with a rodent PET camera in transgenic mice over expressing amyloid; evaluation of serotonergic and dopaminergic markers in primates raised under various degrees of maternal deprivation and with well characterized behavioral phenotypes. The fellow will have ample opportunities to learn from experts in the field and perform skills required to pursue PET imaging research in neuropsychiatry. Applicants should have PhD or MD degree and be interested in working in a multidisciplinary team of chemists, physicists, pharmacologists, biologists, and clinical researchers. Interested applicants should send their CV and the names of three references to: Robert Innis, MD, PhD; Chief, Molecular Imaging Branch, NIMH, Building 1, Room B3, 1 Center Drive MSC, Bethesda, MD 20892. Email: [robert.innis@nih.gov](mailto:robert.innis@nih.gov).

The National Institutes of Health  
is an equal opportunity employer.  
Women and minorities are encouraged to apply.



### Postdoctoral Fellowship Position at the National Institutes of Health

A postdoctoral fellowship position is available at the Unit of Affective Cognitive Neuroscience, Mood and Anxiety Disorders Program, National Institute of Mental Health, NIH. The research focus of the Unit on Affective Cognitive Neuroscience is the study of the neuro-chemical and neuro-cognitive systems implicated in anxiety and psychopathic disorders. Projects will involve psychopharmacological, neuro-imaging studies and neuro-psychological studies. The fellowship is characterized by a unique training experience in an enriching multidiscipline research environment.

The successful candidate must have a MD or Ph.D. in Neuroscience, Psychiatry, Neurology, Psychology or related discipline, and less than five years of postdoctoral research experience. The positions are located within the NIMH Intramural Research Program, in Bethesda, MD. Salary will be commensurate with NIH guidelines and experience.

Please email or send CV and three letters of reference to:  
Dennis Charney, M.D.

Program Director, Mood & Anxiety Disorders Program  
National Institute of Mental Health  
15K North Drive, Room 101  
Bethesda, MD 20892-2670  
Email: [charneyd@nih.gov](mailto:charneyd@nih.gov)



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## POSITIONS OPEN

### RESEARCH FACULTY POSITIONS Molecular Biology, Pathogenesis, and Epidemiology

The Public Health Research Institute (PHRI) is seeking appointment of new faculty members to increase the size of our staff at both the junior or senior levels. Candidates must have training and experience of the highest quality and a research program addressing fundamental questions in cell biology, molecular biology, structural biology, infectious diseases, or epidemiology. The research program must be funded or (in the case of a junior applicant) eminently fundable. The PHRI is an independent, not-for-profit research organization founded in 1942. Its current programs center on basic molecular biology and molecular genetics of disease-causing organisms. The PHRI offers an active, collegial research environment; excellent laboratory facilities; start-up funds; and a generous benefits package. Candidates should submit curriculum vitae, a statement of research interests and accomplishments, and a list of at least three references. PHRI will be moving from New York City to a spacious, newly constructed building containing state-of-the-art facilities including BL3 animal laboratories in the University Heights Science Park in Newark, New Jersey. Detailed information about PHRI can be found at website: <http://www.phri.org>. Applications should be sent to: **Dr. Leonard Mindich, Chairman, Recruitment Committee, Public Health Research Institute, 455 First Avenue, New York, NY 10016.** The Public Health Research Institute is an Equal Opportunity Employer.

### ASSISTANT PROFESSOR, BIOCHEMISTRY The Catholic University of America

The Department of Biology, with research-intensive M.S. and Ph.D. graduate programs, has a tenure-track opening for a Biochemist at the level of Assistant Professor. Investigators taking a biochemical approach to the study of problems in immunology or neurobiology are particularly encouraged to apply. Interesting research problems may include signal transduction or drug discovery. However, candidates asking novel and creative questions in any area of biochemistry will receive full consideration. The successful candidate is expected to develop a competitive, extramurally funded research program and to excel in teaching at both graduate and undergraduate levels. Please submit a statement describing research interests; curriculum vitae; and the names of three references by February 15, 2002, to: **Dr. James Greene, Chair, Faculty Search Committee, Department of Biology, The Catholic University of America, 620 Michigan Avenue, N.E., Washington, DC 20064.** For more information on this position, the Department and the University, see our website: <http://arts-sciences.cua.edu/bio/biohome.htm>. CUA is an Equal Opportunity Employer and does not discriminate on the basis of race, religion, or disability. The Catholic University of America was founded in the name of the Catholic Church as a national university and center of research and scholarship. Regardless of their religious affiliation, all faculty are expected to respect and support the University's mission.

### RESEARCH ASSOCIATE (INSTRUCTOR OR ASSISTANT PROFESSOR)

Potassium channels in insulin-secreting cells. A Research Associate position is open to study the function, pharmacology, and regulation of potassium channels in insulin-secreting pancreatic beta cells. Human, rodent, and new transgenic and tissue-specific genetically modified mouse models will be studied. Qualified individuals with experience in voltage/patch clamp techniques are preferred. State-of-the-art optical imaging and molecular biological techniques are available. Faculty rank and salary will be commensurate with experience. Send your curriculum vitae and contact information for three references to: **Louis H. Philipson, M.D., Ph.D., The University of Chicago, MC 1027, 5841 South Maryland Avenue, Chicago, IL 60637.** E-mail: [l-philipson@uchicago.edu](mailto:l-philipson@uchicago.edu).

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

## POSITIONS OPEN

### ASSISTANT PROFESSOR PHARMACOLOGY AND TOXICOLOGY Michigan State University

Applications are invited for an annual-year, tenure-track position at the Assistant Professor level. The successful candidate should have a D.V.M. and Ph.D. (preferably in pharmacology) or equivalent degrees and several years of postdoctoral experience. The applicant will be expected to direct an extramurally funded research program; participate with research teams in directing, consulting, and/or executing clinical research programs; coordinate/organize and participate in teaching the introductory course in pharmacology to veterinary medical students; supervise a fourth-year clerkship in clinical pharmacology; and participate in graduate training. Applicants should submit curriculum vitae, a statement of research and teaching interests, and names and addresses of three references. Electronic submission to e-mail: [hummeld@msu.edu](mailto:hummeld@msu.edu) is encouraged (use MS Word 2000 or Corel WordPerfect 6/7/8). Paper applications may be sent to: **Dr. Patricia E. Ganey, Chair, Search Committee, Department of Pharmacology and Toxicology, Michigan State University, B440 Life Sciences Building, East Lansing, MI 48824-1317.** Website: <http://www.phmtox.msu.edu>. Completed applications must be received by January 15, 2002. Michigan State University is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

### POSTDOCTORAL FELLOWS

Positions available immediately to study the molecular mechanisms underlying taste transduction and coding (*Nature Genetics* 28:58, 2001; *PNAS* 98:8868, 2001; *Nature Neuroscience* 2:1055, 1999; *Nature* 381:796, 1996; *Nature* 376:80, 1995; *Nature* 376:85, 1995; *Nature* 357:563, 1992). Potential research projects include crystallization and modeling of taste receptor domains; analysis of taste receptor-G protein interactions; analysis of gustducin-phosphodiesterase interactions; and generation of transgenic, knockout, and knock-in mice expressing altered taste receptors. Strong background in molecular biology, protein biochemistry, crystallography, molecular modeling, or transgenic technology required.

For consideration, please send your curriculum vitae, names and addresses of three references, and a statement of research interests to: **Dr. Robert F. Margolskee, Department of Physiology and Biophysics, Howard Hughes Medical Institute at The Mount Sinai School of Medicine, Box 1677, One Gustave L. Levy Place, New York, NY 10029.** FAX: 212-849-2599; e-mail: [bob@inka.mssm.edu](mailto:bob@inka.mssm.edu); website: <http://www.hhmi.org/research/investigators/margolskee.html>. We are an Equal Opportunity Employer fostering diversity in the workplace.

### ENVIRONMENTAL ORGANIC CHEMISTRY Departments of Environmental Science and Chemistry

The Departments of Environmental Science and Chemistry at the University of San Francisco (USF) invite applications for a tenure-track joint appointment position at the ASSISTANT PROFESSOR level in environmental organic chemistry with a specialty in theoretical/computation organic chemistry to begin fall 2002. For details, please see website: <http://www.usfca.edu/envsci/>. USF is an Affirmative Action/Equal Opportunity Employer.

The Department of Biology at the University of San Francisco (USF) invites applications for a tenure-track position in genetics at the ASSISTANT or ASSOCIATE PROFESSOR level to begin in August of 2002. Individuals utilizing molecular techniques to study the genetics of natural populations (and who therefore could also offer field courses) are especially encouraged to apply. For details, please see website: <http://www.usfca.edu/biology/>. USF is an Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### 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.

### PEDIATRICS/NEONATOLOGY

University of Kentucky College of Medicine  
**ASSOCIATE PROFESSOR/ASSISTANT PROFESSOR.** The University of Kentucky is interested in recruiting an M.D./Ph.D. or a Ph.D. faculty member on tenure track. The faculty member will direct the research laboratory in neonatal physiology; pursue independent research; and collaborate with Clinical Researchers who are interested in understanding mechanisms of perinatal brain injury, potentially translating basic science findings to clinical trials for neuroprotection and therapy. The faculty member will also provide mentorship in basic science research to Postgraduate Fellows. Experience in collaborative research with Clinicians and background in developmental cerebral/cardiovascular physiology, neuroscience, and/or cell biology preferred. The bluegrass area of Kentucky provides outstanding quality of life and a progressive university. Candidates should contact: **Dr. Henrietta S. Bada, Chief of Neonatology, University of Kentucky Medical Center, 800 Rose Street, Lexington, KY 40536.** E-mail: [csams0@uky.edu](mailto:csams0@uky.edu); website: <http://www.mc.uky.edu/chuk>. Equal Opportunity Employer.

The Department of Physiology in the University of New England College of Osteopathic Medicine invites applications for a 12-month, tenure-track appointment at the level of ASSISTANT PROFESSOR. Applicants should hold a Doctorate degree, have at least two years of postdoctoral experience, and have strong potential for attracting extramural research funding. Preference will be given to research areas in neuroscience, cardiovascular physiology, or endocrine/metabolic physiology (diabetes). The successful candidate will be expected to teach endocrine and gastrointestinal physiology to medical students and other graduate health program students. Applications should include (1) curriculum vitae, (2) a statement of current and proposed research interest, (3) selected relevant reprints, (4) a statement of teaching experience/interests, and (5) names and contact information for at least three references. Review of applications will begin in February 2002 and continue until the position is filled. Application materials should be sent to: **Department of Human Resources, Sally Libby, University of New England, 11 Hill's Beach Road, Biddeford, ME 04005.** The University of New England is an Equal Opportunity Employer/Affirmative Action Employer and encourages minority candidates.



**NATIONAL INSTITUTES OF HEALTH  
NATIONAL CANCER INSTITUTE  
ORGAN SYSTEMS BRANCH**

**PROGRAM DIRECTOR  
OF SPECIALIZED PROGRAMS  
OF RESEARCH EXCELLENCE  
(SPOREs)**

NCI-01-3189

GS-601/602-13/14

Opening Date: December 6, 2001

Closing Date: January 4, 2002

The National Cancer Institute is seeking qualified applicants to serve as Program Director of Specialized Programs of Research Excellence (SPOREs) in the Organ Systems Branch (OSB). The OSB manages an extramural multi-disciplinary translational research program termed Specialized Programs of Research Excellence (SPOREs). SPOREs are teams of extramural basic, clinical, and population scientists who focus on a single organ-site cancer and dedicate themselves to translational research that will have an impact on early detection, prevention, diagnosis and treatment of human cancer. The NCI defines translational research as the movement of laboratory discoveries into patient and population research settings or observations in patients and populations back into research laboratories. The incumbent will function as a key member of the OSB extramural staff and will be responsible for the management, planning, implementation, and coordination of breast, ovarian, prostate, lung, or gastrointestinal SPOREs. In addition, the incumbent will be responsible for promoting and facilitating interactions among SPOREs, between SPOREs and the scientific community, and between the SPORE program and other extramural units of the NCI, and the NIH.

**SALARY RANGE AND FRINGE BENEFITS:** Salary ranges from \$63,211 to \$97,108 per annum. Benefits include health and life insurance, retirement, paid holidays, vacation and sick leave. Salary includes locality pay.

**BASIC QUALIFICATIONS:** U.S. Citizenship is required. Applicants must meet the basic experience and educational qualifications for U.S. Government Medical Officer and or Health Scientist Administrator positions. Please refer to NCI Recruiting Bulletin for specific qualification requirements.

**APPLICATION PROCEDURES:** The NCI Recruiting Bulletin for this position contains complete application procedures and lists all mandatory information which you must submit in your application. To obtain the Recruiting Bulletin, call 1-800-728-JOBS (for local calls, 301-594-2953). When prompted, enter the "Fax ID Number" 1937. You will be prompted for your fax machine number. Or you may obtain the Recruiting Bulletin online by going to the following address: <http://www.usajobs.opm.gov>. If you have any questions on qualification requirements or application procedures, or if you wish to obtain a position description or other information, please call (301) 402-2812. PREVIOUS APPLICANTS NEED NOT REAPPLY.

Please submit your resume, SF-171, Application for Federal Employment or OF-612, Optional Application Form by the closing date to:

**NATIONAL CANCER INSTITUTE  
NATIONAL INSTITUTES OF HEALTH  
HUMAN RESOURCE AND CONSULTING BRANCH  
6120 Executive Boulevard, MSC 7211  
Executive Plaza South, Suite 550  
Rockville, Maryland 20852-7211**

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**DIRECTOR  
OFFICE OF TECHNOLOGY AND  
INDUSTRIAL RELATIONS**

**National Cancer Institute  
GS-601-15 (NCI-01-2946)**

**Promoting Innovation in Technology Development and  
Industry Collaboration for the Future of Cancer Research**

The National Cancer Institute (NCI) is committed to supporting the development of new technologies that will speed cancer research and bring new therapies and diagnostics to the public as quickly as possible. The Office of Technology and Industrial Relations (OTIR) (<http://otir.cancer.gov>) initiates innovative programs that enable the discovery and development of critical technologies for cancer research. OTIR also generates new strategies for helping companies access NCI funding, research resources, scientists and discoveries. We are currently seeking a visionary leader to direct our innovative technology programs and establish creative mechanisms for partnering with industry.

Reporting to the Director, NCI, the Director, OTIR identifies opportunities for technology investment and industry collaboration, identifies new technologies of potential interest for cancer research, and develops and implements new trans-NCI technology programs. He/she directs the technical management of high-risk technology programs, including NCI's emerging collaboration with the National Aeronautical and Space Administration (NASA) in Biomolecular Sensors and the Unconventional Innovations Program (<http://otir.cancer.gov/tech/uip>) and ensures coordination of ongoing trans-NCI technology development programs, such as the Innovative Molecular Analysis Technologies Program (<http://otir.cancer.gov/tech/imat>).

The successful applicant will be a creative individual with advanced scientific or technical training, broad technology interests, visionary and ambitious ideas, excellent scientific judgment and outstanding oral and written communication skills. A collaborative nature and an ability to stimulate new multidisciplinary approaches to on-going challenges in cancer research are critical, as is having experience in public-private collaboration. Technology or scientific program management experience is essential and private sector work experience is highly desirable. For information on mandatory application procedures see <http://careerhere.nih.gov>, referencing NCI-01-2946.



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## POSITIONS OPEN

### POSITION ANNOUNCEMENT Environmental Fluids Engineering Department of Civil and Environmental Engineering University of Vermont

The University of Vermont presently has an opening for a **TENURE-TRACK FACULTY POSITION** starting August 2002 in the Environmental Fluids and Hydraulic Engineering area within the Department of Civil and Environmental Engineering. We are seeking applicants with academic training and research interests in at least two of the following specialties: environmental fluid mechanics, hydraulic engineering, environmental design, air pollution, and surface water hydrology.

The candidate will be expected to develop a strong, externally funded research program and become involved in undergraduate and graduate instruction. Teaching responsibilities will include core undergraduate courses in hydraulics and development and teaching of graduate courses in related specialty areas and may include teaching support in one of the traditional areas of statics, strength of materials, or engineering economics. The Civil and Environmental Engineering faculty is currently composed of eight members with interests in the areas of hydraulics and surface water hydrology, ecological engineering, soil remediation, groundwater and surface water modeling, geotechnical engineering, transportation engineering, optimization, water and wastewater engineering, air pollution and industrial hygiene, and structural analysis and design.

Qualifications: an earned Ph.D. in civil or environmental engineering and progress toward or eligibility for registration as a Professional Engineer are required. An earned B.S. in civil engineering is preferred. Application deadline: Application review will begin February 8, 2002, and continue until the position is filled. Applicants must submit the following: a letter of interest, a detailed résumé, a statement of teaching and research interests, and names and addresses of five references to:

**James P. Olson, P.E., Ph.D.**  
Chairman, Department of Civil  
and Environmental Engineering  
33 Colchester Avenue  
213 Votey Hall  
University of Vermont  
Burlington, VT 05405-0156

Information about the Department of Civil and Environmental Engineering may be found at [website: http://www.emba.uvm.edu/cee/index2.phtml](http://www.emba.uvm.edu/cee/index2.phtml). The University of Vermont is an Equal Opportunity/Affirmative Action Employer and encourages women and minorities to apply.

### THREE POSTDOCTORAL POSITIONS Microbiology

Three NIH-funded Postdoctoral positions available immediately. Two positions (**Raulston**) will involve cellular and molecular analyses of iron-regulated chlamydial proteins. One position is available (**Wyrick**) to study chlamydial antigen trafficking in infected epithelial cells or the effect of microbicides on chlamydiae. Candidates should have tissue culture experience and preferably some experience in protein and/or antigenic methods of analysis. Applicants must have a Ph.D., M.D., or M.D./Ph.D. and preferably be U.S. citizens or have proof of resident alien status. Salary will be commensurate with experience on the recommended NIH scale. Please send a brief statement of research experience and relevant publications, curriculum vitae, and three letters of recommendation to: **Dr. Jane E. Raulston** or **Dr. Priscilla B. Wyrick, Professor and Chair, Department of Microbiology, Box 70579, James H. Quillen College of Medicine, East Tennessee State University, Johnson City, TN 37614**. E-mails: [raulston@etsu.edu](mailto:raulston@etsu.edu) or [pbwyrick@etsu.edu](mailto:pbwyrick@etsu.edu). Screening of applicants will begin immediately, and the search will continue until suitable candidates are found. *East Tennessee State University is an Equal Employment Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### ANALYTICAL CHEMIST Bioanalytical or Physical/Analytical Chemistry

The University at Albany, State University of New York, Department of Chemistry, seeks a tenure-track **ASSISTANT PROFESSOR** in analytical chemistry beginning September 2002. Experience with techniques such as GC/MS, LC/MS, CE/MS, FTIR, robotics, Raman spectroscopy, biosensors, electroanalytical, and nanoanalytical methods is preferred. The University is presently constructing a \$67 million life science building that will include research in chemistry. Extensive opportunities exist for participation in interdisciplinary programs at the New York State Center for Advanced Thin Film Technology and the Center for Comparative Functional Genomics. Candidates with a Ph.D. and postdoctoral experience will be expected to develop a funded research program and demonstrate a commitment to excellence in teaching at the undergraduate and graduate levels. Please send curriculum vitae, three letters of recommendation and summaries of research plans, and teaching interests to: **Professor Lawrence Daly, Chair, Search Committee, Department of Chemistry, University at Albany, SUNY, Albany, NY 12222**. Please visit our [website: http://www.albany.edu/chemistry](http://www.albany.edu/chemistry). Review of applications will commence mid-January 2002 and will continue until the position is filled. Position pending final budget approval. *The University at Albany is an Equal Opportunity/Affirmative Action/IRCA/Americans With Disabilities Act Employer.*

### ASSISTANT/ASSOCIATE PROFESSOR,

**Conservation Biologist:** Applications are invited for a nine-month, tenure-track faculty position. Summer salary is dependent upon availability of teaching and research funds. We seek an individual with expertise in conservation biology to promote interdisciplinary research and provide services to governmental and non-governmental natural resource agencies and to teach courses in his or her area of expertise (two undergraduate, one graduate). Research experience could be from an array of conservation biology fields. Applicants should possess a Ph.D. in conservation biology, wildlife ecology, or closely related field; strong quantitative skills; ability to generate extramural funding; and a demonstrated ability to publish in area of expertise. Salary will be commensurate with qualifications and experience. Review of applicants will begin on 1 March 2002 and continue until a suitable applicant is found. Send letter of interest, curriculum vitae, representative publications, transcripts, and three letters of reference to: **Dr. Loren M. Smith, Faculty Search Committee, Department of Range, Wildlife, and Fisheries Management, Texas Tech University, Lubbock, TX 79409-2125**. E-mail: [L.M.Smith@ttu.edu](mailto:L.M.Smith@ttu.edu). *Texas Tech University is an Equal Employment Opportunity/Affirmative Action Institution.*

The Biology Department at the University of Nevada, Reno, is seeking a tenure-track **ASSISTANT PROFESSOR** in developmental biology with preference for genetic approaches to animal development. Primary criteria for this position are excellence in research and highly effective teaching of undergraduate and graduate students. The successful candidate will be provided with a competitive start-up package and will be expected to establish an externally funded research program. Teaching responsibilities will include undergraduate courses in cellular and molecular biology and participation in graduate programs. Information at [websites: http://www.scs.unr.edu/~bioweb/](http://www.scs.unr.edu/~bioweb/) and <http://jobs.unr.edu>. Applications should include detailed curriculum vitae with a list of publications, statements of research plans and teaching philosophy, and names and addresses of three references to: **Dr. Grant Mastick, Search Committee Chair, Department of Biology/314, University of Nevada, Reno, NV 89557**. Applications received by February 28, 2002, will receive full consideration. *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### INSTRUCTOR

#### Human Anatomy and Physiology Coordinator

The Department of Biology at the University of Arkansas at Little Rock invites applications for an Instructor (nontenure track; yearly renewable contract) to begin at the fall term of 2002. Applicants must have a minimum of an M.S. or M.A. in the biological sciences. This person will teach and serve as the coordinator for our freshman-level courses. The successful candidate will also teach one of the introductory biology courses with the opportunity to teach additional courses in their area of expertise. Individuals with computer and Web-based skills will be given preference. The successful candidate will have the opportunity to redesign and update these courses.

The University of Arkansas at Little Rock ([website: http://www.ualr.edu](http://www.ualr.edu)) is a metropolitan, state-supported university with a current enrollment of over 11,000 students. Within the College of Science and Mathematics, the Department of Biology consists of 16 full-time faculty members and over 350 majors in its various degree programs. The Department offers B.S. degrees in biology with three concentrations (general biology, fisheries and wildlife management, and molecular biotechnology) and environmental health sciences (four options).

The Department has an M.S. program in biology. An application should include curriculum vitae, statement of teaching philosophy, undergraduate and graduate transcripts, and three letters of reference. Applications should be addressed to: **Dr. Dennis A. Bacyens, Department of Biology, University of Arkansas at Little Rock, 2801 South University Avenue, Little Rock, AR 72204-1099**.

*The University of Arkansas at Little Rock is an Equal Opportunity/Affirmative Action Employer and actively seeks the candidacy of minorities, women, Vietnam-era veterans, and persons with disabilities. Under Arkansas law, all applications are subject to disclosure.*

**ASSISTANT, ASSOCIATE, FULL PROFESSOR** of entomology, tenure track, Penn State University. Research (65%): Conduct innovative research on biology and management of vector and/or pest arthropods associated with animals and livestock in confinement and pasture/field situations compatible with IPM and sustainable agricultural goals. Active involvement in mentoring graduate students expected. Extension (35%): Communicate with stakeholders, maintain extension education program, and provide expertise to other extension and outreach programs involving animal agriculture and sustainable agriculture including rural/urban interface issues. Earned Doctorate in entomology or related life science required. Research emphasis in support of IPM may include population/community ecology, epidemiology of vector-borne diseases affecting animals, vector ecology, microbial-vector interactions, chemical ecology, biological control, or toxicology. Ability to successfully compete for extramural grant support required. Submit letter of application, résumé, academic transcripts, statement of research and extension interests, and names and addresses of five professional references to: **Gary Felton, Head, Department of Entomology, Box S, 501 ASI Building, Penn State University, University Park, PA 16802**. Closing date: January 31, 2002, or until qualified candidate is identified. *Penn State is committed to Affirmative Action, Equal Opportunity, and the diversity of its workforce.*

**GENETIC RESEARCH POSITION:** The new Center for Human Genetics Studies at the Mid-Hudson Family Health Institute in New Paltz, New York, is recruiting for a **POSTDOCTORAL** individual for NIH-funded projects on movement disorders and mental retardation. Experience in molecular biology and positional cloning required. Interested candidates forward curriculum vitae to the attention of: **Human Resources, P.O. Box 479, New Paltz, NY 12561**. FAX: 845-255-8340.





A postdoctoral position is available immediately in the DNA Repair Unit of the Laboratory of Cellular and Molecular Biology within the Intramural Research Program of the National Institute on Aging. Research interests in this unit include understanding the role of reactive oxygen species in oxidative DNA damage and repair in neoplastic diseases, with special emphasis on breast cancer. Experience in molecular/cellular biology is required. Specialized training in DNA repair field, especially base excision repair, is a plus. Applicants must have a Ph.D. and/or M.D. with less than 5 years of post-doctoral experience.

Interested candidates should submit curriculum vitae and three letters of recommendations to:

**Simon Nyaga, Ph.D.**  
**National Institute on Aging**  
**National Institutes of Health**  
**5600 Nathan Shock Drive**  
**Mailbox 12**  
**Baltimore, Maryland 21224**  
**FAX: (410) 558-8386**  
**E-mail: nyagas@grc.nia.nih.gov**

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## **Tenure/Tenure-Track Position** **National Institute of Allergy and Infectious Diseases (NIAID)**

The Laboratory of Intracellular Parasites, NIAID, NIH, Rocky Mountain Laboratories, Hamilton, Montana, has a tenured or tenure-track position available to pursue independent studies of the pathophysiology and molecular basis of pathogenesis of *Coxiella burnetii*, the agent of Q fever. The successful candidate will be expected to incorporate modern technologies including proteomics, genomics, cell biology, and immunochemistry to (i) define the extent of strain variation in nature and (ii) characterize the unique virulence factors that contribute to the pathogenesis of these organisms. The Rocky Mountain Laboratories offers state-of-the-art facilities for genomics, proteomics, DNA microarray, and biological imaging in a recently renovated modern laboratory setting. A new BL3 containment building with BL3 animal capacity and a laboratory module committed to Q fever research is available. Candidates must hold a Ph.D., D.V.M., or M.D. degree and have a minimum of 2 years post-doctoral experience in relevant areas of investigation. Preference will be given to those candidates with experience or interest in intracellular parasitism and a strong background in cellular biology, molecular biology, and cell culture models of infection. The Rocky Mountain Laboratories has an extensive *C. burnetii* culture collection and technical expertise on site to assist in the start-up and training in the propagation and handling of the agent. Resources and appointment mechanism will be commensurate with experience.

The NIH Rocky Mountain Laboratories supports research on a number of significant bacterial and viral human pathogens including *Chlamydia*, *Mycobacteria*, *Staphylococcus*, *Streptococcus*, *Borrelia*, *Neisseria*, retroviruses, HIV, and transmissible spongiform encephalopathies (TSE). The laboratory is located in the scenic Bitterroot Valley of western Montana with easy access to some of the finest outdoor recreational opportunities in North America. Additional information on the position may be obtained from **Dr. Ted Hackstadt** ([ted\\_hackstadt@nih.gov](mailto:ted_hackstadt@nih.gov)).

**Application Process:** Applicants must be U.S. citizens, resident aliens, or nonresident aliens with or eligible to obtain a valid employment authorized visa. Salary depends on degree and qualifications. Other incentives may be available. Applicants must send a curriculum vitae, bibliography, three letters of reference, selected reprints and a brief statement of research interest to: **Ms. Michelle Garvey, Office of Human Resources Management, NIAID, Bldg. 31, Room 7A27, 31 Center Drive, MSC 2520, Bethesda, Maryland 20892-2520** by February 1, 2002. Applicants interested in applying must submit a complete package and cite vacancy announcement NIAID-01-217 on the package. All information provided by applicants will remain confidential and will only be viewed by authorized officials of the NIAID.

*The NIH is an Equal Opportunity Employer*

## **Assistant/Associate Professor** **Department of Neurobiology** **Harvard Medical School**

The Department of Neurobiology at Harvard Medical School invites applicants for the position of Assistant/Associate Professor. Preference will be given to candidates who study neural circuits with innovative approaches, including molecular biology, electrophysiology, optical imaging, or MRI. We have recently established a Brain Imaging Core with facilities for small-animal MRI, optical imaging, and single and multi-photon confocal microscopy. This tenure track position offers outstanding scholarly and scientific resources in a collegial and collaborative atmosphere that includes strong ties to related departments throughout Harvard, its affiliated hospitals and the Boston neuroscience community. The position also offers the opportunity to teach exceptional graduate, medical and health science technology students with strong interests in neuroscience and related technologies. Candidates must have a Ph.D., M.D. or equivalent graduate degree. Applicants should send a letter of application, including a curriculum vitae, a brief description of research interests, and the names and contact information of at least three references to:

**Neurobiology Search Committee c/o Ms. Vickie Monta**  
**Department of Neurobiology**  
**Harvard Medical School**  
**220 Longwood Avenue**  
**Boston, MA 02115**

Applications must be received no later than January 5, 2002.

*Harvard Medical School is an equal opportunity/affirmative action employer with an institutional commitment to diversity in its faculty.*

## **POSTDOCTORAL POSITION NIMH/DIRP**

The Unit on Functional Imaging Methods, in the Laboratory of Brain and Cognition, at The National Institute of Mental Health (NIMH) has three post doc positions available. Ongoing research includes: (1) Elucidation of the relationship between neuronal activity and functional MRI contrast, (2) Exploration of the limits of neuronal, physiologic, and hemodynamic information that is obtainable using fMRI, (3) Development of novel pulse sequences for quantitative physiologic information extraction and increased robustness of fMRI methods, (4) Exploration of low level visual, motor, auditory, and sensory processing with fMRI, and (5) Development of direct neuronal current imaging methods using MRI.

Fellowships include full salary support plus research and travel expenses for up to five years. Basic facilities include two GE 3 Tesla scanners and one GE 1.5 Tesla scanner. Arriving within a year will be a 7T human scanner and a 4.7T / 60 cm vertical bore primate scanner. Extensive computational and technical support is provided. It is expected that fellows have experience with fMRI methods development, fMRI contrast mechanism research, and/or psychophysical experimentation methods.

Applicants should send a curriculum vitae and three letters of recommendation to:

**Dr. Peter Bandettini, ([bandettini@nih.gov](mailto:bandettini@nih.gov))**  
**Laboratory of Brain and Cognition**  
**Bldg 10, Rm. 1D80, MSC 1148**  
**10 Center Drive**  
**Bethesda, MD 20892-1148**  
**phone: 301-402-1333**  
**fax: 301-402-1370**

*The National Institutes of Health is an Equal Opportunity Employer.*

## POSITIONS OPEN

### KENT STATE UNIVERSITY

ASSISTANT PROFESSOR  
BIOLOGICAL SCIENCES  
Tuscarawas Campus  
New Philadelphia, Ohio

Tenure-track appointment to begin August 2002 to teach introductory biology courses (for majors and nonmajors) and possibly anatomy and physiology. Tenure-track Professors are expected to demonstrate teaching excellence, perform discipline-based research, and participate in professional development and campus and community service. Requirements: a Ph.D. with evidence of scholarship and teaching experience and a demonstrated interest in teaching undergraduate students. Specialty for this position is physiology with some background in ecology. Review of applicants will begin December 17, 2001, and continue until the position is filled. Appointment is subject to final budget approval. To apply: Please submit letter of application, curriculum vitae, transcripts, and three letters of reference to: **Dr. Gregg L. Andrews, Dean, Kent State University, Tuscarawas Campus, 330 University Drive, N.E., New Philadelphia, OH 44663. E-mail: jobs@tusc.kent.edu.** Equal Opportunity/Affirmative Action Employer.

### BROAD AREA SEARCH Department of Electrical Engineering

The Department of Electrical Engineering at Stanford University ([website: http://ee.stanford.edu](http://ee.stanford.edu)) invites applications for one or more tenure-track faculty appointments at the ASSISTANT PROFESSOR level in the broadly defined field of electrical and computer engineering. While outstanding candidates from all areas of research in electrical engineering are encouraged to apply, areas in which we are especially interested at present include embedded systems, digital signal processing, optical and electronic devices, and interface circuit design.

An earned Ph.D., evidence of the ability to pursue independent research, and a strong commitment to both graduate and undergraduate teaching are required. The successful candidate will be expected to teach graduate and undergraduate courses both in the candidate's specialty area and in related subjects and to build and lead a group of graduate students in Ph.D. research.

Applications should include a résumé, a list of publications, a brief statement of research and teaching interests, and the names of at least five references. They should be forwarded to:

**Professor Umrán Inan**  
Search Committee Chair  
Department of Electrical Engineering  
Packard 355

Stanford University, Stanford, CA 94305-9505

The review of applications will begin on January 15, 2002, but applications will be accepted until March 1, 2002. Stanford University is an Equal Opportunity Employer and welcomes nominations of women and minority group members and applications from them.

Two NCI-funded POSTDOCTORAL POSITIONS in the Department of Molecular and Cellular Biochemistry, Ohio State University College of Medicine. Both positions are available immediately to study the role of chromatin remodeling complexes in gene regulation and control of cell growth and proliferation. Prior experience with production of transgenic mice is desirable. Interested candidates should send curriculum vitae and names of three references to: **Dr. Said Sif, 1645 Neil Avenue/468 Hamilton Hall, Columbus, OH 43210. E-mail: sif.1@osu.edu.**

## POSITIONS OPEN

### CHEMICAL PHARMACOLOGY Tenure-Track; 12 Months

Mercer University Southern School of Pharmacy invites applications for an ASSISTANT/ASSOCIATE PROFESSOR in the area of chemical pharmacology. Requires an earned Doctorate degree with a degree in pharmacy and postdoctoral experience highly desirable. Qualified candidates will be expected to teach in both the professional and graduate programs; to mentor graduate students; and to establish an independent, extramurally funded research program. We are seeking broadly educated individuals to participate in a collaboratively taught, highly integrated curriculum. A strong commitment to excellence in teaching and research is essential. The successful candidate must be able to teach pharmacology as well as the chemical and biochemical processes relevant to the action of specific drugs. Fair consideration will be given to all research interests. For complete announcement, access [website: http://www.mercer.edu/humanresources](http://www.mercer.edu/humanresources). For more information regarding the Department of Pharmaceutical Sciences/Southern School of Pharmacy, access [website: http://www.mercer.edu/pharmacy](http://www.mercer.edu/pharmacy). Review of applications will begin January 31, 2002. Applicants should provide curriculum vitae, a statement of research interests and professional goals, a statement of teaching philosophy, and the names and addresses of three references to: **Stephen J. Cutler, Ph.D., Department of Pharmaceutical Sciences, Southern School of Pharmacy, Mercer University, 3001 Mercer University Drive, Atlanta, GA 30341-4155. Affirmative Action/Equal Opportunity Employer/Americans With Disabilities Act.**

### TENURE-TRACK POSITION PHYTOPATHOLOGY

The Hebrew University of Jerusalem, Faculty of Agricultural, Food, and Environmental Quality Sciences, Department of Plant Pathology and Microbiology, invites applications for a full-time, tenure-track position in phytopathology starting October 1, 2002. Applicants should have expertise in basic and applied aspects of phytopathology. The nominated candidate will be expected to conduct original and independent research, to attract external competitive funding, to teach courses (in Hebrew) at the undergraduate and graduate levels in phytopathology with an emphasis on agricultural aspects, and to supervise graduate students. Qualifications required: Ph.D. degree and postdoctoral research experience in one or more of the above fields. Starting rank will be commensurate with qualifications. Applications should include curriculum vitae, a list of publications, a statement of teaching and research experience, and a two-page description of proposed research activities. Applicants should also arrange to have three letters of recommendation sent on their behalf under separate cover. Applications should be sent to: **Professor J. Katan, Head, Department of Plant Pathology and Microbiology, Faculty of Agricultural, Food, and Environmental Quality Sciences, P.O. Box 12, Rehovot 76100, Israel. E-mail: katan@agri.huji.ac.il; Telephone: 972-8-9489217; FAX: 972-8-9466794.** Applications will be considered starting from March 1, 2002. Applications submitted after this date will be considered until the position is filled.

### VERTEBRATE ZOOLOGIST/ANATOMIST

Tenure-track ASSISTANT PROFESSOR with vertebrate zoology/anatomy specialty beginning 1 September 2002. Ph.D. required; postdoctoral and teaching experience desirable. Responsibilities: Teach human anatomy, comparative anatomy, and introductory biology; develop research program in vertebrate zoology; pursue extramural funding; supervise M.S. theses. Letter of application, statements of teaching philosophy and research interests, curriculum vitae, reprints, three letters of recommendation, and transcripts to: **Chair, Department of Biology and Microbiology, University of Wisconsin Oshkosh, Oshkosh, WI 54901 by 14 January 2002. The University of Wisconsin Oshkosh is an Affirmative Action/Equal Opportunity Employer and values diversity.**

## POSITIONS OPEN

### THE UNIVERSITY OF TEXAS MD ANDERSON CANCER CENTER Making Cancer History™

### CHAIR Department of Experimental Radiation Oncology

Applications are invited for the position of Chair, Department of Experimental Radiation Oncology, at The University of Texas M.D. Anderson Cancer Center. The Chair will receive substantial resources to support future growth and development of the Department. Applicants should have an established record of scientific excellence in basic research and an international reputation in areas that complement the research of the current faculty. These areas include DNA damage and repair, cell cycle regulation, molecular therapeutics and specific molecular targets for radiation interactions, angiogenesis, determinants of radiation response of tumors and normal tissues at the molecular and cellular levels, apoptosis, genomics, and proteomics. Applications are sought from individuals who are trained in radiation oncology. Certification by the American Board of Radiology or its equivalent is preferred. The successful candidate will be expected to assume a leadership role in translational investigations in the laboratories of Experimental Radiation Oncology with other clinical radiation oncology Investigators throughout the Institution. Interested individuals should submit their curriculum vitae, brief summary of research interests, and names of references to:

**Dr. Isaiah J. Fidler**  
Chair, Department of Experimental Radiation  
Oncology Search Committee  
The University of Texas  
M.D. Anderson Cancer Center  
1515 Holcombe Boulevard, Box 113  
Houston, TX 77030

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Women and minority candidates are encouraged to apply.

### STAFF CLINICIAN

### Developmental and Metabolic Neurology Branch

The Developmental and Metabolic Neurology Branch at NINDS is looking for a Pediatric Neurologist to serve as a Staff Clinician. The position is given for a minimum of three years with a possibility of renewal. The candidate is expected to actively participate in research on the pathogenesis and treatment of neurometabolic disorders. The successful candidate should be a graduate of an accredited pediatric neurology training program in the United States and Board certified/eligible in neurology with special competence in child neurology. The candidate should have at least two years of postgraduate clinical research in neurogenetic disorders. The salary will be \$55,000 to \$80,000 per year depending on experience.

Please send applications including curriculum vitae, bibliographies, and three letters of recommendation to: **Dr. Roscoe O. Brady, Chief, Developmental and Metabolic Neurology Branch, NINDS, NIH, Building 10, Room 3D04, 9000 Rockville Pike, Bethesda, MD 20892-1260.** Applications should be postmarked no later than January 21, 2002.

We are recruiting for ASSISTANT SPECIALIST (salary range \$38,652 to \$41,352 per year) with extensive research experience in gene knockout and transgenic mice to study the function of novel genes involved in adipogenesis and diabetes. Candidates should have a Ph.D. and have a minimum of four years of postdoctoral training with outstanding publication record. Send curriculum vitae and names of three references to: **Dr. Hei Sook Sul, Department of Nutritional Sciences and Toxicology, 119 Morgan Hall, University of California, Berkeley, CA 94720-3104. FAX: 510-642-0535.** Application deadline is January 12, 2002. University of California is an Equal Opportunity/Affirmative Action Employer.

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## **NATIONAL INSTITUTES OF HEALTH NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM**

### **Chief, Imaging Section, Laboratory of Molecular Physiology Division of Intramural Clinical and Biological Research**

Applications are invited for establishing an Imaging Section, within the Laboratory of Molecular Physiology, directed by Dr. Stephen Ikeda. The Section will be focused on understanding basic mechanisms of signal transduction and synaptic physiology using state-of-the-art imaging techniques. The successful candidate will have an internationally recognized research program with a demonstrated expertise in advanced imaging techniques (e.g., two-photon confocal microscopy) as documented by an outstanding publication record and, when applicable, a history of significant extramural grant support. Candidates with a demonstrated ability to integrate multiple types of research approaches, collaborate effectively with other investigators, and adapt new optical methods to problems of signal transduction and synaptic physiology are especially encouraged to apply. The successful candidate will be provided significant resources to establish a state-of-the-art imaging laboratory and will be offered a competitive salary and benefits package. Applicants should have a doctoral degree and several years of relevant postdoctoral experience. Those interested should submit their CV, list of publications, a brief research proposal and the name of 3 individuals who could be contacted for reference to:

**Ms. Kathleen Hanratty**  
NIAAA Intramural Personnel Office  
NIH, Bldg. 31, Room 1B58  
31 Center Drive MSC 2088  
Bethesda, MD 20892-2088

Applications must be received by February 28, 2002

*NIH is an Equal Opportunity Employer. Applications from women, minorities, and persons with disabilities are strongly encouraged. The DICBR/NIAAA is a smoke-free environment*

### **Administrator/Manager: GeneChip and microarray core facility**

The Veteran's Medical Research Foundation (VMRF) seeks a manager to operate a shared core facility providing access to the exciting new technology of microarray gene expression for investigators. The GeneChip Core is among the most active of such facilities serving a wide user base of Southern California academic institutions and biotechnology entities.

Responsibilities will include, robotics, instruments for sample tracking, budget, and interaction with informatics staff, technicians, as well as scientists. The successful applicant will have experience in molecular biology methods and a strong interest in the application of informatics methods to the laboratory. Specific experience with the Affymetrix GeneChip system and database/programming skills are not necessary. Starting salary is \$45,000 to \$60,000 commensurate with experience. Applicants must have a M.S. or Ph.D. in molecular biology or a related field.

Interested individuals should send a letter of application, an up to date Curriculum Vitae and the names, phone numbers and addresses of three individuals who will serve as references to:

**VMRF, 3350 La Jolla Village Drive  
(151A), La Jolla CA 92016.**

### **Postdoctoral Position**

Applications are invited for a postdoctoral position focusing on structural and biochemical properties of the general transcription initiation factor IID (TFIID). The TFIID complex plays a central role in promoter recognition and transduction of regulatory signals from a wide range transcriptional activators and repressors at almost all RNA polymerase II promoters. We use a variety of biophysical techniques to examine the TFIID complex with the goal of obtaining 3-dimensional structural information for the constituent subunits. Our laboratory includes all of the necessary equipment to carry out these studies. Our state of the art instrumentation includes a R-Axis IV++ X-ray diffraction system, an Agilent ion-trap mass spectrometer, a Jasco CD spectrometer, a Microcal ITC titration calorimeter and a Beckman analytical ultracentrifuge.

The candidate should be highly motivated; a strong background in structural biology, protein biochemistry or molecular biology is desirable. The funded position is available for up to three years. Applicants should send a CV including addresses and email of references to: **Dr. Raymond Jacobson, University of Texas, MD Anderson Cancer Center, Department of Biochemistry and Molecular Biology, Box 117, 1515 Holcombe Blvd., Houston, TX 77030.** Informal inquiries can be made to [rjacobso@mdanderson.org](mailto:rjacobso@mdanderson.org). Visit [www.mdanderson.org/~genedev/](http://www.mdanderson.org/~genedev/).

*An Equal Opportunity Employer and  
smoke free environment. Minorities and  
women are encouraged to apply.*

## POSITIONS OPEN

### CELL/MOLECULAR BIOLOGICAL SCIENCES St. John's University

The Department of Biological Sciences at St. John's University invites applications for the position of **ASSISTANT PROFESSOR** (tenure track). Applicants should have a strong background in molecular/cell biology research as well as postdoctoral training.

The successful applicant will be expected to teach an undergraduate immunology course as well as a graduate course in their area of expertise and to develop a funded research program.

St. John's University, the nation's largest Catholic university, is located in a residential area of New York City. The Department of Biological Sciences maintains vigorous Doctoral and Master's programs in addition to its undergraduate program. Send curriculum vitae, a brief description of research interests, and the names of three references to: **Dr. Jay A. Zimmerman, Ph.D., Chair, Department of Biological Sciences, St. John's University, 8000 Utopia Parkway, Jamaica, NY 11439. E-mail: zimmerjm@stjohns.edu; website: http://www.stjohns.edu.** St. John's University is an Equal Opportunity Employer and encourages applications from women and minorities.

### ASSISTANT PROFESSOR OF STRUCTURAL BIOLOGY

Applications are invited for a tenure-track junior faculty appointment in the Department of Structural Biology, Stanford University School of Medicine. Candidates should have expertise and a commitment to future research in the area of structural and biophysical studies of supramolecular assemblies. Applicants should send curriculum vitae, description of research interests, representative reprints, and should arrange to have three letters of recommendation forwarded to:

**Chairman of the Faculty Search Committee  
Department of Structural Biology  
Stanford University School of Medicine  
299 Campus Drive West  
Stanford, CA 94305-5126**

Evaluation of applications will begin on February 15, 2002; applications received after this date may not receive full consideration. *Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.*

### ASSISTANT PROFESSOR PHYSIOLOGY

The Department of Biological Sciences announces a tenure-track position to begin fall 2002. The appointee will be expected to develop a strong research program in an area complementary to the physiology and endocrinology faculty (see [website: http://dept.kent.edu/biology](http://dept.kent.edu/biology)), secure extramural funding, and participate in graduate student training. Teaching responsibilities include an upper-division course in integrative physiology. Generous start-up funds are available. The Department maintains facilities for organismal, cellular, and molecular research. Applicants must have the Ph.D. and postdoctoral experience. Review of applications will begin December 20, 2001, and continue until the position is filled. To apply, submit curriculum vitae, statement of research interests, and three letters of recommendation to: **Dr. J. David Glass, Chair, Physiology Search Committee, Box 29, Department of Biological Sciences, Kent State University, Kent, OH 44242-0001.** Kent State University is an Equal Opportunity/Affirmative Action Employer.

### BIOTECHNOLOGY

Position available for **SCIENTIST II** in San Diego, California. Please send résumés to: **Gen-Probe Incorporated, Attention: HR Job Code G00/242LC, 10210 Genetic Center Drive, San Diego, CA 92121. FAX: 858-410-8102.** Gen-Probe supports a drug-free work environment. Equal Opportunity Employer.

## POSITIONS OPEN



### DIRECTOR OF RESEARCH Center on Aging University of Kansas Medical Center

The University of Kansas (KU) is seeking an outstanding Scientist (M.D., Ph.D., or equivalent) for the position of Director of Research, Center on Aging. The applicant will maintain a research program of high caliber, provide direction for the Human Performance Laboratory, and play a significant role in the leadership of the Center on Aging.

We are seeking a midcareer or senior academic Researcher who will flourish in the Center on Aging and the wider KU scientific/academic community. Research experience in areas related to the mission of the Center on Aging is desired. These include but are not limited to motor control and/or rehabilitation in the elderly, either in normal aging or in motor dysfunction associated with neurological conditions (e.g., stroke, Parkinson's disease, etc.). As Director of Research, the candidate must have demonstrated experience in research; a productive history as Principal Investigator on grants; and strong organizational, interpersonal, and communication skills. Applications should include a statement of research interests, a career synopsis, current curriculum vitae, and names and addresses of three references. Applications will be considered until the position is filled. Nominations are strongly encouraged. These documents should be sent to:

**Randolph J. Nudo, Ph.D., Chair  
Director of Research Search Committee  
Center on Aging  
University of Kansas Medical Center  
3901 Rainbow Boulevard  
Kansas City, KS 66160**

Further Center on Aging and Human Performance Laboratory information can be found under Research at [website: http://www2.kumc.edu/coa/](http://www2.kumc.edu/coa/). The University of Kansas is an Equal Opportunity/Affirmative Action Employer.

**HYDROLOGIST.** The National Research Program of the U.S. Geological Survey's Water Resources Division invites applications for a full-time **RESEARCH POSITION** in Reston, Virginia. Research emphasis will be in fluvial geomorphology; needs individual with strong background in fluid mechanics, computational river mechanics, surface water flow modeling, sediment transport, and erodible bed dynamics or surface-water constituent transport processes. Candidates are sought with interests in transport and deposition of silts and clays in large rivers in mesic to humid climatic regions. Requires Ph.D. or equivalent experience with strong evidence of independent research capability. Salary: \$48,000 to \$75,000 commensurate with experience. For more information on job requirements and how to apply, go to [website: http://www.usajobs.opm.gov](http://www.usajobs.opm.gov). Refer to Vacancy ER-02-701. **Richard Marzolf (Telephone: 703-648-5828; e-mail: rmarzolf@usgs.gov)** will answer other questions. Submit a résumé, bibliography, and brief description of research interests to: **Personnel Office, U.S. Geological Survey, 157 National Center, Reston, VA 20192.** Applications must be received by February 1, 2002. The U.S. Geological Survey is an Equal Opportunity Employer. U.S. citizenship is required.

**POSTDOCTORAL POSITIONS** available immediately to study transcriptional regulation of angiogenesis after brain or spinal cord injury. Strong background in molecular biology required. Contact: **Chung Y. Hsu, M.D., Ph.D., Department of Neurology, Washington University School of Medicine, St. Louis, MO.** E-mail curriculum vitae and three reference letters to [e-mail: hsuc@neuro.wustl.edu](mailto:hsuc@neuro.wustl.edu).

## POSITIONS OPEN

### FACULTY POSITION PHARMACOLOGY/PHARMACEUTICAL SCIENCES Idaho State University College of Pharmacy

The Department of Pharmaceutical Sciences in the College of Pharmacy at Idaho State University (ISU) solicits applications for a nine-month, tenure-track faculty position at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR**. Candidates are expected to have a Ph.D. and postdoctoral experience in discipline areas relevant to the pharmaceutical sciences. Experience in pharmacy education is desirable. The successful candidate is expected to develop an active research program that is complementary to the research interests of the Department and is required to teach in the professional and graduate programs. Applicants are requested to send curriculum vitae and a list of at least three references to:

**Dr. Dana Diedrich  
Chair of Search Committee  
Department of Pharmaceutical Sciences  
Idaho State University College of Pharmacy  
Box 8334  
Pocatello, ID 83209-8334**

Review of applications begins immediately, and the search remains open until filled. The ISU College of Pharmacy may be visited at [website: http://rx.isu.edu](http://rx.isu.edu). Idaho State University is an Affirmative Action/Equal Opportunity Institution and is actively committed to increasing diversity within its community.

### ANATOMIST

The Section of Anatomy, Department of Growth, Development, and Structure, at Southern Illinois University School of Dental Medicine invites applications for a full-time (12-month) tenure-track appointment for an Anatomist at the **ASSISTANT/ASSOCIATE PROFESSOR** level. The major teaching responsibilities of this position are in histology and gross anatomy in the D.M.D. program. Applicants must have a Ph.D. or equivalent, teaching experience in the anatomical sciences, and demonstrated ability and interest in research/scholarly activities. Rank and salary are commensurate with experience and qualifications. The School of Dental Medicine is located on its own historic campus, 15 minutes from the campus of Southern Illinois University at Edwardsville and 30 minutes from downtown St. Louis, Missouri. The starting date is July 1, 2002. Applicants should submit a letter of interest; curriculum vitae; and names and addresses of three references by February 1, 2002, to: **Dr. Patrick J. Ferrillo, Jr., Dean, Southern Illinois University School of Dental Medicine, 2800 College Avenue, Alton, IL 62002.** SIU-SDM is an Affirmative Action/Equal Employment Opportunity Employer. Women and minorities are encouraged to apply.

### ASSISTANT PROFESSOR PLANT ECOLOGIST

The Department of Biological Sciences at Kent State University invites applications for a tenure-track position to begin fall 2002. A Ph.D. and postdoctoral experience in plant biology is required. We especially seek applicants who are using state-of-the-art approaches to address conservation issues or evolutionary questions in aquatic systems or wetland communities. Candidates are expected to develop a vigorous, extramurally funded research program and to supervise Ph.D. and M.S. students. Teaching responsibilities may include general botany or local flora and a graduate-level course in the candidate's area of expertise. Review of applications will begin December 30, 2001, and continue until the position is filled. Applications will be accepted throughout the process. To apply, please submit curriculum vitae, statement of research and teaching interests, representative reprints, and three letters of reference to: **Chair, Plant Ecologist Search Committee, Department of Biological Sciences, Kent State University, 256 Cunningham Hall, Kent, OH 44242.** Kent State University is an Equal Opportunity/Affirmative Action Employer.

# RESEARCH SCIENTIST

Abbott Park, Illinois

*Great people. Innovative products. Ongoing achievement. Each part of the circle depends on the other to continue our success. At Abbott Laboratories, we've maintained our status as a world class health care company by creating innovative technology and attracting top-notch professionals. For over 110 years, our people and products have been helping to build a healthier world. You supply the individuality and unique perspective, and we'll supply you with the resources you need to succeed.*

The individual will be responsible for establishing assays for drug discovery efforts in cancer research at Abbott Laboratories. The responsibilities will cover a broad scope of techniques including mammalian cell culture, molecular cloning, protein expression and analysis and cell sorting. Requirements include a Ph.D. degree in cell and molecular biology with 2+ years postdoctoral experience, an M.S. degree with 3+ years experience or a B.S. degree with 5+ years work experience and proven records of accomplishment in either an academic or industrial setting. A successful record with extensive research experiences in the field of cancer research is highly desirable.

We're passionate about what we do. If you feel the same, then follow your aspirations to Abbott for diverse opportunities, competitive salaries, great benefits, a 401k retirement savings plan, a company paid pension plan and profit sharing, as well as growth and stability to build your future. For immediate consideration, please email your resume to [Jamie.Stacey@abbott.com](mailto:Jamie.Stacey@abbott.com). Please reference "Cancer Biology Position" in the subject line. For more career opportunities, please visit our website at [www.abbott.com](http://www.abbott.com)



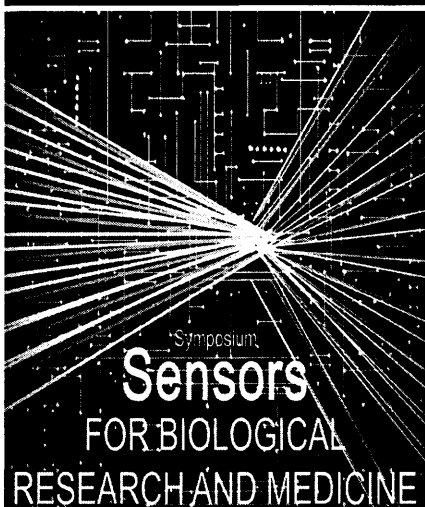
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## SYMPOSIA



June 24-25, 2002

Natcher Conference Center  
National Institutes of Health  
Bethesda, Maryland

The National Institutes of Health Bioreengineering Consortium (BECON) announces its 5th annual symposium. The scientific agenda will focus on multi-disciplinary medical and biological research involving sensor systems technologies for the detection, diagnosis, and treatment of human disease. Keynote plenary talks, posters, and focused breakout sessions will provide a forum for national and international communication and interaction.

Updated information is available at:  
<http://www.becon.nih.gov/symposium2002.htm>



## Institute for Mathematical Sciences National University of Singapore

### POST-GENOME KNOWLEDGE DISCOVERY

The Institute for Mathematical Sciences, newly formed in July 2000, will hold its second program from January to June 2002.

The program, which is on Post-Genome Knowledge Discovery, will focus on the computational and statistical analysis of sequence and genetic data and the mathematical modeling of complex biological interactions. It is intended to bring together biologists, bioinformaticians, computer scientists, mathematicians and statisticians for interaction and exchange of knowledge and ideas.

The program topics are:

1. Sequence and gene expression analysis (Jan – Feb 2002)
2. Population and statistical genetics (Mar – Apr 2002)
3. Protein interaction and clinical data analysis (May – Jun 2002)

**The Institute invites applications for Membership for participation in the above program. Limited funds are available to cover travel and living expenses to young scientists. Application should be received at least (3) months before the commencement of membership.**

More information and application forms are available from:

<http://www.ims.nus.edu.sg>

or by writing to:

Secretary, Institute for Mathematical Sciences  
National University of Singapore  
3 Prince George's Park  
Singapore 118402, Republic of Singapore

MEETINGS and ANNOUNCEMENTS

## POSITIONS OPEN

Stanford University School of Medicine is seeking to fill a full-time position as **SENIOR SCIENTIFIC EDITOR** to head an editorial office within the Department of Neurosurgery consisting of approximately 15 clinical faculty, five research faculty, Postdoctoral Fellows, and residents.

We are seeking a Ph.D.-qualified Biomedical Researcher with broad-based interest and expertise, preferably in the areas of neurosurgery, neurology, or neurobiology. The ideal candidate should have postdoctoral research experience and publications in peer-reviewed journals, excellent written and oral communication skills, and a commitment to the communication of science. Candidates should have significant experience in editing peer-reviewed manuscripts, book chapters, and NIH grants. We are particularly interested in applicants with expertise and background in neuroscience but would welcome applications from outstanding candidates in any area of biomedical research.

Please submit curriculum vitae, a short (500 to 1,000 words) article on any exciting and newsworthy recent developments in neuroscience or any area of biomedical research, and a cover letter explaining your interest in the position to: Cheryl Joo, Stanford University School of Medicine, Department of Neurosurgery, 300 Pasteur Drive, Room R283A, Stanford, CA 94305-5327. E-mail: [cjoo@stanford.edu](mailto:cjoo@stanford.edu); FAX: 650-723-1408.

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

### AN EXCEPTIONAL OPPORTUNITY FOR TWO OUTSTANDING SCIENTISTS

Ciphergen Biosystems (the leading proteomics, ProteinChip® system company) is establishing a subsidiary company in Beijing under the direction of **Yang Dave Xu, M.D., Ph.D./Chief Scientist and Managing Director, China**. We are looking for two Ph.D. Scientists with a background in the biological sciences (biology, cell biology, molecular biology, or in protein chemistry) who are fluent in English and spoken and written Mandarin Chinese. They must be thoroughly familiar with mainland Chinese customs and multi-Chinese dialects, sales techniques, and business practices. Applicants must be willing to travel 30% to 50% of the time and to live in China for a minimum of three years (positions in Beijing and Shanghai are currently available). The persons we seek will have completed two terms in postdoctoral studies or will be in **ASSOCIATE PROFESSOR** or equivalent positions in industry. If this possible career path is for you, please contact: **Mr. Jeff Smoker, Human Resources, Ciphergen Fremont**; e-mail: [jsmoker@ciphergen.com](mailto:jsmoker@ciphergen.com) or **Dr. Yang Xu**; e-mail: [yxu@ciphergen.com](mailto:yxu@ciphergen.com).

### POSTDOCTORAL POSITION Tissue Engineering Center of the Children's Hospital of Philadelphia and The University of Pennsylvania

We are seeking highly motivated and independent individuals to carry out research in the field of cartilage, bone, and liver tissue regeneration. Qualified individuals must have a Ph.D. or equivalent degree in the field of chemical engineering, biomedical engineering, or bioengineering. Should have experience in mammalian cell culture and related assays with a moderate background in cellular biology. NIH-scale salary with full benefits. Interested individuals should send their résumé and names of three references to:

**Venkatram Prasad Shastri**  
Assistant Professor, University of Pennsylvania  
and Assistant Director, Tissue Engineering Center  
Abramson Research Center, Suite 707C  
3615 Civic Center Boulevard  
Philadelphia, PA 19104  
FAX: 215-590-5454  
E-mail: [shastri@seas.upenn.edu](mailto:shastri@seas.upenn.edu)

Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.

## POSITIONS OPEN

### New Mexico Tech SCIENCE ENGINEERING RESEARCH UNIVERSITY TENURE-TRACK POSITION BIOCHEMISTRY

New Mexico Institute of Mining and Technology, Department of Chemistry, seeks applicants for a tenure-track position at the **ASSISTANT PROFESSOR** level to begin in August 2002. Candidates with exceptional qualifications may be considered for appointment at higher rank. A Ph.D. in biochemistry or a related field is required. Postdoctoral experience is preferable. A strong commitment to quality teaching is essential. The chosen candidate will be expected to initiate innovative research involving both graduate and undergraduate students. The area of research is open. Applicants should send curriculum vitae, copies of transcripts, and a statement of research interests and teaching philosophy to: **NMIMT, 801 Leroy Place, Human Resources, Wells Hall, Box 99C, Socorro, NM 87801**. Candidates should arrange for three letters of recommendation to be sent to this same address. For full consideration, all application materials must be received by February 5, 2002. However, the positions will remain open until filled. For additional information about NMIMT, visit our website: <http://www.nmt.edu>. E-mail applications are not accepted. Affirmative Action/Equal Opportunity Employer.

### RESEARCH SCIENTIST University of Washington

The Department of Biochemistry at the University of Washington in Seattle is recruiting a Research Scientist to manage the Recombinant Protein Production Laboratory for its program on structural genomics of pathogenic protozoa sponsored by the National Institutes of Health Structural Genomics Initiative. Duties are to develop and implement high-throughput production of recombinant proteins, manage six technicians, manage budgets and equipment, maintain a database of large numbers of clones, and provide leadership in technology development. Requirements: Ph.D. with at least two years of postdoctoral experience or equivalent education and experience; expertise in recombinant DNA cloning, recombinant protein expression, and purification; experience in supervising technical staff; and the ability to manage a research group of six. Desirable: experience in high-throughput laboratory procedures including robotics and database management. For a full description of the job, visit website: <http://www.washington.edu/admin/employment> for Reference Number PL14376. For additional detailed information describing the job responsibilities, please visit website: [http://faculty.washington.edu/gelb/SGPP\\_Position.html](http://faculty.washington.edu/gelb/SGPP_Position.html). Send curriculum vitae, three references, and a cover letter explaining how you meet or exceed the job requirements to: **Maria Woods, University of Washington, Box 357250, Seattle, WA 98195**. Telephone: 206-685-4776; e-mail: [mw4@u.washington.edu](mailto:mw4@u.washington.edu).

### RESEARCH ASSOCIATE POSITION

Research Associate position available in biosensor technology in the Center for Bio/Molecular Science and Engineering of the Naval Research Laboratory. Qualifications: experience in bioanalytical methods (especially fluorescence techniques), basic molecular biology and cloning, protein purification, and chemical derivatization of proteins. Ph.D. in a relevant field with less than five years of previous postdoctoral experience. Starting salary for National Research Council Fellowship is circa \$55,000 per year and opportunities exist for transition to permanent status after successful tenure. Applicants should send curriculum vitae and names of two references by e-mail (e-mail: [mmauro@cbmse.nrl.navy.mil](mailto:mmmauro@cbmse.nrl.navy.mil)) or regular mail to: **Dr. J. M. Mauro, CBMSE, Code 6910, Naval Research Laboratory, 4555 Overlook Avenue S.W., Washington, DC 20375**. Only U.S. citizens or permanent residents can be considered for this position. NRL is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

The U.S. Department of Agriculture, Agricultural Research Service, Corn Insects and Crop Genetics Research Unit, Ames, Iowa, is accepting applications for a **RESEARCH ENTOMOLOGIST/RESEARCH GENETICIST** to delineate genetic and biochemical factors by which plants modify insect behavior. The Researcher is expected to (1) identify semiochemicals in corn plants that are involved in the chemically mediated modification of insect behavior, i.e., resistance to plant feeding activity and oviposition behaviors of corn insects; and (2) include these chemical traits into breeding material for hybrid-seed corn products. Collaborative efforts will be made with other Scientists to integrate findings into sustainable management of insect pests of corn. The incumbent will be responsible for independently planning, executing, analyzing, and interpreting research. The successful candidate will report research results through publications, reports, and presentations at conferences and professional meetings. The incumbent will collaborate with unit Scientists and others working to determine the effect of semiochemicals on populations of insects. A Ph.D. is preferred. Salary range: \$51,927 to \$94,862 per year commensurate with experience. Candidate must be a U.S. citizen. For more information about the research program, contact: **Dr. Leslie C. Lewis**; Telephone: 515-294-8614; e-mail: [leslewis@iastate.edu](mailto:leslewis@iastate.edu). For a copy of the vacancy announcement and application forms, contact: **Janae Lentz**; Telephone: 515-663-7277; e-mail: [jlentz@nadc.ars.usda.gov](mailto:jlentz@nadc.ars.usda.gov); website: <http://www.ars.usda.gov>. Applications should be marked ARS-X2W-2059 and must be postmarked by February 4, 2002. USDA is an Equal Opportunity Provider and Employer. Women and minorities are encouraged to apply.

**RESEARCH SCIENTIST, RESPIRATORY/RESEARCH ASSISTANT**, molecular biology and genomics (Bridgeview, New Jersey): Identify and characterize cell lines to use as models of primary immune cell functional responses to validate novel cell-specific genes identified by genomics program. Perform Taqman analysis to characterize gene expression of novel genes among cell types under different conditions. Perform genetic manipulations such as cDNA overexpression and antisense delivery to assess consequences of stimulation/inhibition of gene expression on cellular function. Isolate and purify primary blood immune cells and RNA. Review literature for potential novel molecular drug targets in the area of inflammation. Perform functional assays (apoptosis, adhesion, cytokine release by ELISA, Western blotting, gene reporter). Explore feasibility of RNA interference as alternative to antisense. Requires B.S. in biochemistry/molecular biology plus five years of experience in the job offered or Scientist/Research Assistant, inflammatory diseases in the pharmaceutical industry. Must also include hands-on experience with plasmid construction and purification, transfection into mammalian cells, antisense oligonucleotide delivery to mammalian cells, RNA purification and quantitation, Taqman RT-PCR, reporter assay development, protein isolation, and Western blotting. Forty hours per week; salary commensurate with experience. Résumé to: **Box Number 105, 1200 New York Avenue, N.W., Washington, DC 20005**.

The University of New Mexico School of Medicine invites applications for a **SENIOR RESEARCH SCIENTIST II** position in genomics/bioinformatics at a newly established biocomputing facility. This Ph.D. staff person will participate in studies which involve analysis of gene microchip data, database formation, and pathway analysis. For specific information on requirements and to apply, refer to the vacancy announcement at website: <http://www.unm.edu/~hrnet/jobs/h31702.htm> or Telephone: 505-272-6445. For program information, contact: **Richard Larson**; Telephone: 505-272-9762; e-mail: [rlarson@salud.unm.edu](mailto:rlarson@salud.unm.edu). Applications accepted until 5 p.m. MST on February 8, 2002. This vacancy may be closed prior to the advertised closing date. Indicate the requisition number (H31702) and job title on all correspondence. Equal Employment Opportunity/Affirmative Action.





## Advance Notice concerning the International Joint Research Grant Program for FY2002 (plan)

The New Energy and Industrial Technology Development Organization (NEDO), which is subsidized by the Ministry of Economy Trade and Industry (METI) of Japan, has been conducting the International Joint Research Grant Program since 1989. This program aims to contribute to advancement of the international level of industrial technology by providing research funds to international joint research teams which conduct superior research.

### Major Requirements for "International Joint Research Teams"

1. The research team must be composed of researchers with sufficient ability to conduct research on the proposed theme. The researchers must fully cooperate with one another to carry out the research activities, and not only perform their own share of the research. The research team should utilize the merits and synergy of the cooperative research.
2. In principle, each member of the research team must belong to a research laboratory (See Note below), and shall be a diligent person who can take responsibility regarding implementation of the research plan and accounting management concerning research activities.
3. Each team must, in principle, consist of four (4) or more researchers.
4. Each team must consist of researchers of two (2) or more nationalities.
5. Researcher affiliates (research laboratories at which the proposed research will be performed) must be located in two (2) or more countries, and one (1) of the research members must belong to a research laboratory which has its head office in Japan.
6. Each team must appoint a research coordinator from among its members. The research coordinator should be a person who can represent the research team and plan the research schedule. The research coordinator can concurrently serve as the accounting coordinator.
7. Each team must appoint an accounting coordinator from among its members. The accounting coordinator's research laboratory and research location must be in Japan, and he/she must be able to communicate with NEDO in Japanese. The research coordinator can concurrently serve as the accounting coordinator.

There are no specific requirements concerning researcher affiliates. However, they should at least have the basic facilities required for the proposed research.

**Contact Information:** Mr. Motomura, Mr. Yoshida, Research Grant Division, Research Funding & Fellowship Department, New Energy and Industrial Technology Development Organization (NEDO); E-mail: yoshidatksa@nedo.go.jp, motomuramsy@nedo.go.jp; Homepage: <http://www.nedo.go.jp/itd/grant-e/index.html>; Address: PO Box 1151, 29<sup>th</sup> Floor, Sunshine 60 Bldg., 1-1 Higashi-Ikebukuro 3-chome, Toshima-ku, Tokyo 170-6028 Japan; Tel: +81-3-5952-0071 Fax: +81-3-5952-0081

### Eligible Research Areas

In 2002, grants will be awarded in the research areas outlined below. However, the announcement is subject to the availability of the relevant government funds.

1. **Basic Research:** Basic research which will lead to the creation of new industries. For FY2002, eligible research fields are Nanotechnology, Materials, and Informational Technology. About 24,000,000 yen/FY
2. **Energy (Related to power generation):** Practical research on industrial technology concerning utilization of oil-alternative energy for power generation, leveling of electric loads and related global environment conservation. About 30,000,000 yen/FY  
(**Efficient use:**) Practical research related to industrial technology for efficient use of energy, excluding electric power generation. About 30,000,000 yen/FY
3. **Global Environment:** Practical research on industrial technology concerning the production, generation and utilization of oil-alternative energy, excluding electric power generation technologies, which contributes to conservation and improvement of the global environment. About 30,000,000 yen/FY
4. **International Standard Development:** Research aiming at establishment of international standards to contribute to improvement of industrial technology. About 20,000,000 yen/FY

**Research Term:** Each team may receive a grant for a maximum of three (3) years.

**Application Term:** January 15, 2002 to March 13, 2002 (Applications must reach NEDO by the deadline.)

**Application Forms:** Application forms can be downloaded from <http://www.nedo.go.jp/itd/grant-e/index.html> (from mid-January 2002). If you experience any problems in downloading the forms, please send the following information to NEDO by facsimile or e-mail indicating such: Name, Affiliation, Department, Position, Address, Telephone, Facsimile, E-mail address.



### Bridge the Gap Between Discovery and Clinical Testing

Access the National Cancer Institute's (NCI) vast resources free of charge to help move therapeutic agents for cancer to the clinic. The National Cancer Institute invites the submission of proposals to:

#### Rapid Access to Intervention Development RAID

RAID is not a grant program. Successful applicants instead will receive products or information generated by NCI contractors to aid the applicant's development of novel therapeutics toward clinical trial. The goal of RAID is the rapid movement of novel molecules and concepts from the laboratory to the clinic for proof-of-principle clinical trials. RAID will assist investigators by providing any (or all) of the preclinical development steps that may be obstacles to clinical translation. These may include, for example, production, bulk supply, GMP manufacturing, formulation and toxicology.

- The next deadline for receipt of applications is February 1, 2002.
- Further information about this program can be found at:  
<http://dtp.nci.nih.gov>
- Inquiries can be made to the RAID Program Coordinator by telephone at 301-496-8720 or by e-mail at RAID@dtp2.ncicrf.gov.

**RAID**  
**Developmental Therapeutics Program**  
**National Cancer Institute**  
6130 Executive Blvd., RM 8022  
Rockville, MD 20852  
Tel: 301-496-8720; Fax: 301-402-0831  
[raid@dtp2.ncicrf.gov](mailto:raid@dtp2.ncicrf.gov)

### International Symposia and Courses organized by the Merieux Foundation in 2002



- ◆ Microarrays, Immune Responses, and Vaccines  
27-29 May 2002
- ◆ Foot and Mouth Disease: Control Strategies  
2-5 June 2002
- ◆ Third Advanced Vaccinology Course  
3-14 June 2002
- ◆ Therapeutic Vaccines against HIV and Cancers  
23-26 June 2002
- ◆ XIIIth Cent Gardes Symposium, 27-30 October 2002
- ◆ Vaccination in Tomorrow's Society  
14-16 November 2002
- ◆ Neonatal Immunity, 8-11 December 2002

Information and registration on: [www.fond-merieux.org](http://www.fond-merieux.org)

FONDATION MERIEUX  
17 rue Bourgelat  
BP 2021 - 69227 Lyon Cédex 02 - France  
[betty.dodet@fond-merieux.org](mailto:betty.dodet@fond-merieux.org)



## POSITIONS OPEN

### POSTDOCTORAL POSITIONS CANCER GENETICS AND DNA CHIPS

Positions available as part of a Cornell University Medical Center–Memorial Sloan-Kettering Cancer Center–Rockefeller University triinstitutional NCI-funded program project grants for (1) the development of comprehensive genetic and epigenetic DNA chips for the profiling of human tumors, i.e., expression analysis, point mutations, LOH/gene amplification, DNA methylation status; (2) development of SNP DNA chips for identification of new cancer genes; and (3) identification of inherited mutations associated with increased risk for cancer development. Applicant should have a Ph.D., preferably with experience in cancer genetics, molecular biology, genomics, bioinformatics, population genetics, protein-DNA interactions, DNA arrays, and/or automation in DNA and PCR technology. Competitive salary commensurate with experience. Send curriculum vitae and names of three references to: **Professor Francis Barany, Program Director, Programs of Biochemistry, Structural Biology, and Molecular Biology, Box 62, Cornell University Medical Center, 1300 York Avenue, New York, NY 10021. FAX: 212-746-8588 or to: Philip Paty, M.D., Department of Surgery, Box 453, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. FAX: 212-717-3678. Equal Opportunity Employer.**

**POSTDOCTORAL FELLOW** in population biology. The Center for Population Biology at the University of California, Davis (UCD), invites applications for a Postdoctoral Fellowship in population biology, broadly defined to include ecology, systematics, population genetics, and evolution. The position is for two years (subject to review after one year) and can begin as early as 1 June 2002 with an annual salary of \$28,000. Up to \$1,500 in removal expenses and \$4,000 per annum in research support will be available. The Fellow will be a fully participating member in the Center for Population Biology (CPB) and will be expected to have an independent research program that bridges the interests of two or more CPB laboratory groups. For more information about UCD programs in population biology, see our **website: <http://www.cpb.ucdavis.edu>**. Interested candidates should submit curriculum vitae, three letters of reference, a short (one- to two-page) description of research accomplishments, and a short (one- to two-page) description of proposed research indicating potential faculty mentors to: **CPB Fellow Search Committee, Center for Population Biology, University of California, One Shields Avenue, Davis, CA 95616-8755**. Evaluation of applications will begin on February 15, 2002. *The University of California is an Affirmative Action/Equal Opportunity Employer with a strong institutional commitment to the development of a climate that supports Equality of Opportunity and respect for differences.*

The Institute of Marine and Coastal Sciences at Rutgers, The State University of New Jersey, invites applications for a tenure-track **ASSISTANT PROFESSOR** in estuarine/coastal dynamics beginning July 2002. We seek candidates with a Ph.D. in physical oceanography, coastal engineering, or equivalent; demonstrated experience in estuarine/coastal observation and modeling programs; and interests in the study of physical processes and their impact on estuarine/coastal ecosystems. Interest in developing a coupled estuarine/coastal observing network and/or the implementation of coastwide physical/biological predictive systems is desirable.

Applications consisting of curriculum vitae, a statement of research and teaching interests, copies of three recent publications, and a list of at least three individuals willing to provide an informed evaluation should be sent by February 1, 2002, to: **Dr. J. Frederick Grassle, Director, Institute of Marine and Coastal Sciences, Rutgers, The State University of New Jersey, 71 Dudley Road, New Brunswick, NJ 08901-8521**. *Rutgers is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

The University of California, Irvine, Department of Pathology, seeks a Surgical Pathologist with both diagnostic skills and experience in molecular biologic techniques for an appointment at the level of **ASSISTANT or ASSOCIATE CLINICAL PROFESSOR/PROFESSOR** of clinical pathology. Candidates must have evidence of scholarly productivity and a desire to participate in collaborative translational research in the area of molecular oncology. We envision this position as a novel opportunity to combine clinical practice and academic research within the environment of University of California Irvine's NCI-supported Chao Family Comprehensive Cancer Center. Applicants must be eligible for California medical licensure. Salary will be commensurate with experience. Send curriculum vitae; summary of research experience; and names of three references to: **Professor John Krolewski, Search Committee Chair, University of California, Irvine, College of Medicine, Medical Science I D-440, Irvine, CA 92697-4800. E-mail: [jkrolews@uci.edu](mailto:jkrolews@uci.edu) by February 28, 2002**. *The University of California, Irvine, is an Equal Opportunity Employer committed to excellence through diversity.*

**RESEARCH SCIENTIST:** We are currently looking for a Research Scientist to conduct research in the area of cellular immunology in organ transplantation. Involves PCR, general cloning techniques, transfections, Westerns, protein purification, and flow cytometry. Will supervise technicians and publish research findings. Requires Ph.D. in immunology with relevant experience with molecular biology techniques or Master's with significant experience and accomplishment. Experience with small animal surgery would be a strong asset. Excellent written and verbal communication skills required. Please send curriculum vitae with names of references to:

**Aurora Health Care  
Attention: Trish Rowe  
3307 West Forest Home Avenue  
Milwaukee, WI 53234  
FAX: 414-671-8111  
E-mail: [trish\\_rowe@aurora.org](mailto:trish_rowe@aurora.org)**

*Equal Opportunity Employer; Minority/Female/Disabled/Veteran. We support a safe, healthy, and drug-free work environment through criminal background checks and pre-employment drug testing.*

### POSTDOCTORAL POSITIONS The University of Texas Southwestern Medical Center

Postdoctoral positions are available to study regulation of ion channels using molecular biology, electrophysiology, and transgenic animals. Recent publications from the laboratory include *Nature* 391:803-806, 1998; *PNAS* 96:5820-5825, 1999; *JBC* 275:10182-10189, 2000. Highly motivated Ph.D. with background in electrophysiology, molecular biology, and/or transgenic animals is required. Send curriculum vitae and names of references to:

**Chou-Long Huang, M.D., Ph.D.  
Department of Medicine  
University of Texas Southwestern  
5323 Harry Hines Boulevard  
Dallas, TX 75390-8856  
Telephone: 214-648-8627  
FAX: 214-648-2071  
E-mail: [chou-long.huang@utsouthwestern.edu](mailto:chou-long.huang@utsouthwestern.edu)**

*University of Texas Southwestern is an Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL FELLOW

Postdoctoral applications are invited from candidates with two to three years of hands-on experience in molecular biology techniques, particularly in developing transgenic animals, to participate in ongoing research related to angiogenesis. Contact: **Dr. Sampath Parthasarathy, Department of Gynecology and Obstetrics; e-mail: [spartha@emory.edu](mailto:spartha@emory.edu)**. *Emory University is an Equal Opportunity Employer.*

## POSITIONS OPEN

### DEAN, COLLEGE OF SCIENCE

California State Polytechnic University, Pomona (Cal Poly Pomona), seeks a dynamic and experienced leader to guide its College of Science to new levels of academic achievement. The Dean is the chief academic officer of the College of Science and reports to the Vice President for Academic Affairs. The Dean is expected to exercise vision and leadership for the continuing development of a high-quality educational program and is expected to be responsive to the needs of the University's highly diverse student body. For more information about the position, please call **Laura Valdez; Telephone: 909-869-2075 or e-mail: [lvaldez@csupomona.edu](mailto:lvaldez@csupomona.edu)**. Additional information about the College is available at **website: <http://www.csupomona.edu/~sci/>**.

Cal Poly Pomona is one of 23 campuses in The California State University. It is located about 30 miles east of downtown Los Angeles in one of the most dynamic economic and cultural, yet affordable, regions in the country. The College of Science offers Baccalaureate and Master's degree programs in biological sciences, chemistry, computer science, geological sciences, mathematics, and physics. The faculty members of the College are committed to high-quality teaching and are among the most active on the campus in research and professional activities. *California State Polytechnic University, Pomona, is an Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL FELLOW INNATE IMMUNITY AND HOST-PATHOGEN INTERACTIONS

An NIH-funded Postdoctoral position is available immediately to study the cellular and molecular immunology of host-pathogen interactions. Our laboratory is interested in understanding at a cellular and molecular level how the innate immune system recognizes and responds to microbial cell wall carbohydrates, i.e., pathogen-associated molecular patterns. Specific interests are receptor-ligand interactions with macrophages, neutrophils, dendritic cells, and lymphocytes; activation of postreceptor signal transduction pathways; and gene regulation. Applicants with a background and experience in molecular immunology, signal transduction, and gene regulation are particularly sought. Applicants must have an earned Doctorate in an appropriate field. Interested individuals should submit an application containing curriculum vitae and the names and addresses of three references to: **David Williams, Ph.D., Department of Surgery, James H. Quillen College of Medicine, East Tennessee State University, Box 70575, Johnson City, TN 37614. Telephone: 423-439-6363; FAX: 423-439-6259; e-mail: [williamd@etsu.edu](mailto:williamd@etsu.edu)**. *East Tennessee State University is an Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION** in allergy and inflammation laboratory to study inhibitory cell surface receptors expressed on mast cells and other immune system cells (*JEM* 194:227; *Nature Immunol.* 2:436). Candidates should have a strong background in immunology/inflammation and molecular biology. Send curriculum vitae and contact information for three references to: **Howard R. Katz, Ph.D., Harvard Medical School/Brigham and Women's Hospital, Division of Rheumatology, Immunology, and Allergy, 1 Jimmy Fund Way, Room 628A, Boston, MA 02115. E-mail: [hkatz@mbcrr.harvard.edu](mailto:hkatz@mbcrr.harvard.edu)**.

The Mathematical Biosciences Institute at The Ohio State University is offering three-year **POSTDOCTORAL FELLOWSHIPS** beginning September 2002. The deadline for applications is January 31, 2002. The first-year program focuses on mathematical neuroscience and the second year on mathematical modeling of cell processes. For more information, see our **website: <http://mbi.osu.edu>**.

## POSITIONS OPEN



### REGULATION OF CELLULAR PROLIFERATION AND DIFFERENTIATION

**POSTDOCTORAL and RESEARCH ASSOCIATE** positions available to investigate the regulation of cellular proliferation and differentiation. Highly motivated individuals are sought to investigate mechanisms that control the cell cycle and mechanisms that bring about growth arrest during differentiation. We offer outstanding research environment and competitive compensation. Initial appointments can be made for two years. Send curriculum vitae and names of three references to: **W. J. Pledger, Ph.D., H. Lee Moffitt Cancer Center and Research Institute, 12902 Magnolia Drive, Tampa, FL 33612. Website: <http://www.moffitt.usf.edu>.** Open until filled. *University of South Florida is an Equal Opportunity/Affirmative Action/Equal Access Institution. According to Florida law, applications and meetings regarding them are open to the public. For disability accommodations, contact L. Francis; Telephone: 813-979-6734.*

### POSTDOCTORAL FELLOW Computational Biophysics of Membrane Proteins

Two positions available to study molecular mechanisms of G protein-coupled receptors and their interactions with biomembranes and ligands. Strong physical and/or computational backgrounds are preferred; a supportive biomedical training environment for learning membrane biophysics is provided. Candidates with backgrounds in membrane systems and an interest in learning computational methods are also encouraged to apply. Please send curriculum vitae via e-mail along with a cover note to: **Dr. T. B. Woolf, Johns Hopkins University, School of Medicine, Departments of Physiology and Biophysics, 725 North Wolfe Street, Baltimore, MD 21205. E-mail: [woolf@groucho.med.jhu.edu](mailto:woolf@groucho.med.jhu.edu).** *Affirmative Action/Equal Employment Opportunity.*

### POSTDOCTORAL POSITION

Opening for a Protein Chemist/Biochemist with experience in microanalytical protein separation techniques (HPLC and CE). Applicant must have skills and experience in the field of protein isolation and characterization. The project comprises structure and function studies of proteins specifically interacting with mineralized substrates. The characterization of such protein structures at the molecular level is important for the understanding of both de- and remineralization mechanisms and gaining knowledge on the early events in the generation of biofilms. Interested candidates with a recent Ph.D. degree (or equivalent) are invited to send their curriculum vitae to: **Dr. Frank Oppenheim, Boston University Medical Campus, Room G-217, Boston, MA 02118. E-mail: [fropp@bu.edu](mailto:fropp@bu.edu).**

An NIH-funded **POSTDOCTORAL POSITION** is available immediately to study the molecular mechanisms of cell and tissue damage accompanying bacterial infections of the eye. The successful candidate will have a Ph.D. with a strong background in molecular biology and bacterial genetics. Additional experience in tissue/cell culture and animal models is a plus. Excellent oral and written communication skills are preferred. Send curriculum vitae, a description of research interests, and three references to: **Michelle Callegan, Ph.D., Department of Ophthalmology, University of Oklahoma Health Sciences Center, 608 S. L. Young Boulevard, Number 418, Oklahoma City, OK 73104. E-mail: [michelle-callegan@ouhsc.edu](mailto:michelle-callegan@ouhsc.edu).** *Oklahoma University Health Sciences Center is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH SCIENTIST OR ASSOCIATE RESEARCH SCIENTIST Electrophysiology Columbia University

The Department of Neurological Surgery has Postdoctoral position or nontenure-track faculty position in slice physiology. Successful applicant must have Ph.D. (for faculty position, postdoctoral training in hippocampal or neocortical slice physiology required). Applicant will work on combined electrophysiological and single cell gene amplification studies of astrocytes and neurons from epileptic animal model and human tissue. Send résumé to:

**Susan E. McMahon  
Department of Neurological Surgery  
Columbia University  
710 West 168th Street, Room 431  
New York, NY 10032  
E-mail: [sem1@columbia.edu](mailto:sem1@columbia.edu)**

*Columbia University takes Affirmative Action to ensure Equal Opportunity.*

### FREDERICK GARDNER COTTRELL POSTDOCTORAL ENHANCEMENT AWARDS

**The University of Alabama  
at Birmingham**

The University of Alabama at Birmingham (UAB) and its affiliated Southern Research Institute (SRI) are pleased to announce the ongoing availability over the next four years of up to 17 Postdoctoral opportunities that provide annual stipends of at least \$50,000 (see website: <http://www.postdocs.uab.edu> for details). Successful candidates will have outstanding research credentials and references and be completing their doctoral training or have no more than three years of previous postdoctoral experience. Those who have not yet identified a prospective UAB or SRI mentor can click on websites: <http://www.uab.edu> and <http://www.sri.org> and follow appropriate links or use the NIH CRISP database (website: <https://www-commons.cit.nih.gov/crisp>) limited by institution and search terms. Once identified, the prospective mentors should be contacted directly for further information regarding research opportunities and the application process. *The University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer.*

A **POSTDOCTORAL POSITION** in immunology (University of Wisconsin-Madison) is available immediately to study the molecular and cellular mechanisms underlying the generation of memory T cells during an acute viral infection in mice. Specifically, transgenic and gene-targeting approaches will be utilized to study the mechanisms underlying the regulation of CD8 and CD4 T cell memory by members of the TNF receptor family. Applicants must have a Doctoral degree (Ph.D. or M.D./Ph.D. or D.V.M./Ph.D.) and a strong background in cellular and molecular immunology. To apply, please send curriculum vitae, brief description of research interests, and names of three references to: **Dr. M. Suresh, Department of Pathobiological Sciences, 2015 Linden Drive, Madison, WI 53706 U.S.A. E-mail: [sureshm@svm.vetmed.wisc.edu](mailto:sureshm@svm.vetmed.wisc.edu); FAX: 608-263-0438.**

Position available to study pancreatic islet cell transplantation (NIH- and Juvenile Diabetes Foundation-funded). The successful candidate will have the opportunity to interact within an interdisciplinary group of Scientists working at the interface of chemistry, biology, and bioengineering. Applicants should have a Ph.D. degree with training in cell and molecular biology. Experience in islet cell transplantation, immunology, and macrophage biology desirable. Send curriculum vitae to: **Dr. Elliot L. Chaikof, M.D., Ph.D., Emory University School of Medicine, Department of Surgery, 1639 Plerce Drive, 5105 WMB, Atlanta, GA 30322. FAX: 404-727-3660; e-mail [echaiko@emory.edu](mailto:echaiko@emory.edu).**

## POSITIONS OPEN

### NIH 2001 = [OPPORTUNITY]<sup>2N</sup>

Train at the bench, the bedside, or both. The NIH offers **POSTDOCTORAL and CLINICAL FELLOWSHIPS** as well as tenure-track positions.

For details, visit our website:  
[www.training.nih.gov](http://www.training.nih.gov)

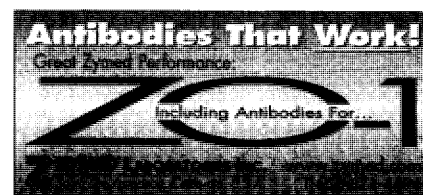
*NIH is dedicated to building a diverse community in its training and employment programs.*

### MOTOR/COGNITIVE NEUROPHYSIOLOGY FUNCTIONAL IMAGING University of Minnesota

Two NIH-funded **POSTDOCTORAL/RESEARCH ASSOCIATE** positions available immediately for the study of the neural processes associated with motor learning. (1) Mechanisms of sequence encoding in nonhuman primates. Approaches will include multielectrode, extracellular neural recording in the frontal cortex (under both acute and chronic conditions) and analysis will focus on single cell, population, and local field potential data. (2) Neural substrates of implicit motor learning in humans. Particular emphasis will be placed on event-related fMRI approaches using high-field systems. Candidates should have a background in one of the following: functional imaging, psychology, neurophysiology, cognitive neuroscience, or computational neuroscience. Send curriculum vitae and the names of three references to: **James Ashe, Brain Sciences Center (11B), VAMC, Minneapolis, MN 55417. E-mail: [ashe@umn.edu](mailto:ashe@umn.edu).** *Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** available to study transcriptional regulatory networks in the intestinal pathogen *Vibrio cholerae*. The project will use molecular and cellular biology to study *in vivo* expression of virulence genes and biochemistry to elucidate the mechanisms of action of various transcription factors. A strong background in molecular and cellular biology and biochemistry is desired. Send curriculum vitae and names of three references to: **Dr. Karen Skorupski, Department of Microbiology and Immunology, Dartmouth Medical School, Hanover, NH 03755. E-mail: [karen.skorupski@dartmouth.edu](mailto:karen.skorupski@dartmouth.edu).**

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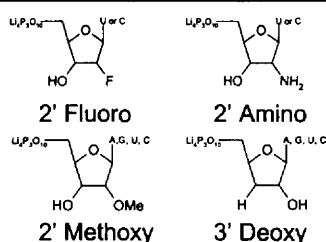
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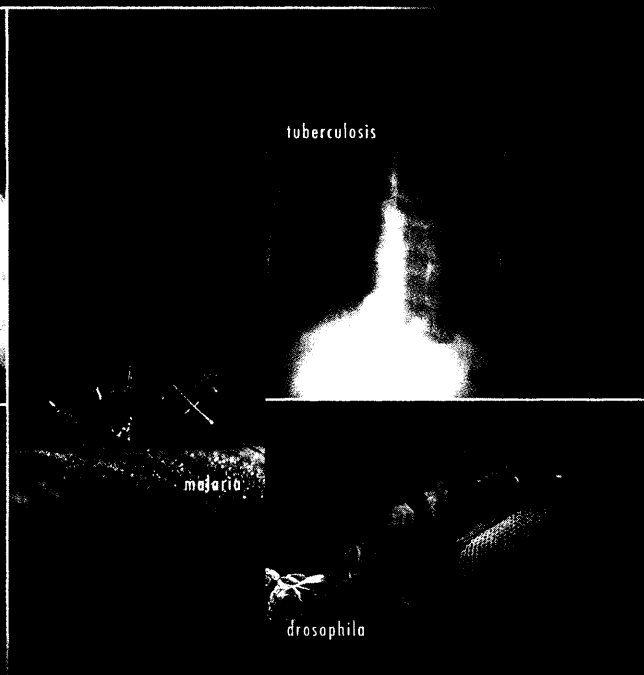
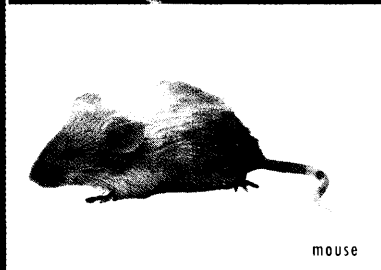
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