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## OF ASTRONOMICAL PROPORTIONS

Since Charles Babbage's 1820s attempt to build a Difference Engine capable of calculating star positions with super-human accuracy, astronomy has been linked to computers. In more recent years, the advent of the personal computer has allowed astronomical computation to move onto the desktop, providing a niche for programs like Linux for Astronomy.

The latest version of Linux for Astronomy (LFA) offers over 3.5 GB of publicly available astronomy software, prebuilt for Linux and tested on Redhat 7.3 and SuSE 8.0. This three-CD set also includes a point-and-click graphical installer, as well as an extensive HTML library that provides package summaries and local copies of each package's online documentation.

With 108 separate packages, Linux for Astronomy easily achieves its goal of being "the most comprehensive collection of Astronomical software," although widely used commercial programs like SuperMongo and IDL are absent. LFA includes the latest version of IRAF, the grande dame of astronomical data reduction produced by the National Optical Astronomy Observatories, as well as an extensive set of its external add-on packages. Several other well-known programs such as the European Southern Observatory's MIDAS data analysis package and the National Radio Astronomy Observatory's AIPS software are also contained in LFA, as is veteran figure-production package PGLOT.

In such a wealth of software, however, most programs are doomed to relative obscurity. Some, like DUSTY (which calculates a dusty region's temperature distribution and radiation field) and Velocity (which determines an orbital solution for the radial velocity curves of spectroscopic binary stars) will be of use only to investigators in certain subfields.

One point at which LFA falls short of its potential is in its organization of these disparate packages. Unlike other sources of astronomical utilities, such as the online Astronomical Source Code Library, LFA fails to categorize its cornucopia of software and settles instead for a straight alphabetical listing. The manufacturer has addressed this issue temporarily at its Web site and promises to include the documentation in future versions of the software.

LFA's new graphical installer program is a mixed blessing. To its credit, its point-and-click interface is an immense improvement over building, for example, an IRAF installation by hand, and it is useful for installing packages that fail to provide easy-to-run .rpm distributions. However, the installer and its accompanying documentation don't seem commercially mature, as evidenced by the fact that a number of errors were encountered while testing basic installations on the supported SuSE 8.0 distribution. The manufacturer indicates that this glitch has been fixed on versions currently being shipped, though we were unable to confirm this assertion before going to press. Fortunately, purchasers of LFA are entitled to free technical support, available via e-mail.

Linux for Astronomy has the potential to become a significant astronomical resource—a library of catalogued software that can be accessed with a few clicks of the mouse. As most of the individual programs in LFA are available free from their original developers, potential buyers will have to evaluate their software needs carefully to determine whether LFA's impressive collection is worth the effort required to overcome its foibles.

—Amanda Birmingham

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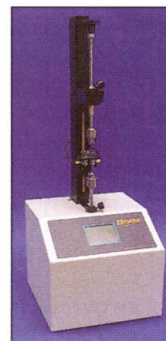
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## ELECTROMAGNETIC VIBRATORY SHAKER

CONTINUED ON PAGE 860

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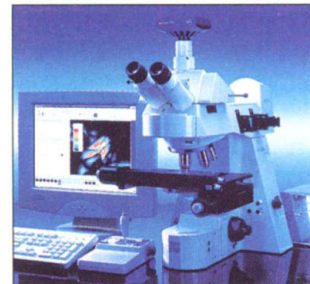
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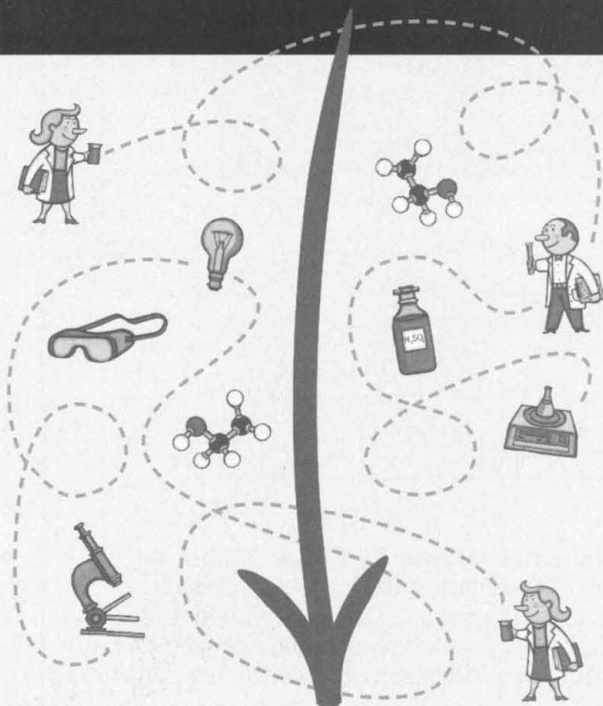
#### LITERATURE

*Personnel & Product Protection: A Guide to Biosafety Enclosures* was developed to help in the selection of an appropriate biosafety enclosure. The information is generic in nature, compiled with help from experienced microbiologists, engineers, and safety enclosure users. It discusses different types of laboratory enclosures and biosafety levels. It includes airflow diagrams and explanations of the use of each class and type of cabinet.

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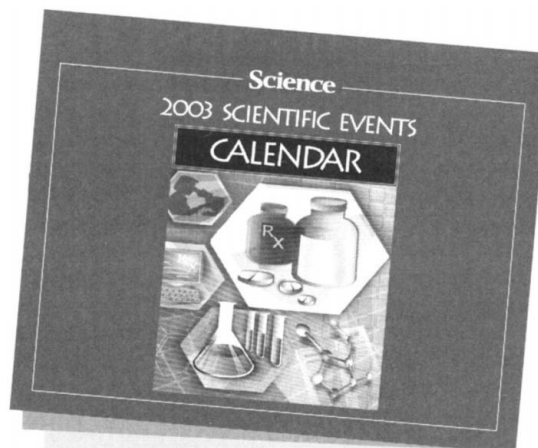
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# Neuroscience

## Teams Taking on the Brain

TRADITIONAL TECHNIQUES IN NEUROBIOLOGY CAN EXPLORE THE BRAIN MORE THOROUGHLY WHEN COMBINED WITH OTHER EXPERIMENTAL APPROACHES. IN THIS ARTICLE, EXPERTS FROM ACADEMICS AND INDUSTRY DESCRIBE NEEDS THAT RANGE FROM BEHAVIORAL BIOLOGISTS TO PHARMACOLOGISTS. **BY MIKE MAY**

Decades ago, many scientists started calling the human brain the last frontier of science, and it remains a frontier with more questions asked about it than ones answered. The billions of cells and who knows how many connections in the human brain pose tremendous challenges for neuroscientists. "The brain is very complex," said Alan Foster, senior director of neuroscience at Neurocrine Biosciences, "and trying to understand it from a normal function and a disease point of view requires looking from many angles." Consequently, today's neuroscientists employ as many techniques and approaches as possible to study the brains of humans and other organisms. That opens jobs in this field to people from many backgrounds—as long as those people want to explore the last frontier.



ALAN FOSTER AND KATHY GOGAS

### **SAN DIEGO, California:**

Foster and his colleagues at Neurocrine Biosciences work on a variety of neurobiologically oriented drugs. For example, this company has an insomnia drug in phase 3 clinical trials, compounds in phase 2 for mul-

multiple sclerosis, brain cancer, and diabetes, and a corticotropin-releasing-factor compound in phase 1 trials that Foster said "could be the next big thing for depression and anxiety." Scientists at this company also explore targets for obesity, pain, schizophrenia, and a variety of ailments with endocrine and immunological origins.

"Neuroscience is a really broad discipline," Foster said. "It encompasses many different areas, and the really interesting results often take two different disciplines put together, like molecular biology plus electrophysiology." Combining different techniques provides scientists with new insights into the complicated aspects of how the brain functions.

Gogas and her colleagues run extensive disease models for obesity, stress, and pain research, and they are constantly looking for opportunities to add more models in each of these areas. She added, "When I look for people in neurobehavior, I want someone with a broad understanding of behavior, which can include classical operant conditioning, to specific expertise in one of our research areas of interest." Still she wants someone who can be flexible, because she said, "Your research objectives and goals could change drastically in a few years."

To keep up with the fast-paced changes in neuroscience, Neurocrine Biosciences hires people with a recent Bachelor's degree through experienced Ph.D.s. The degrees can range from neuroscience or physiology to pharmacology or psychology. Moreover, this company expects to do lots of on-the-job training, so being bright and energetic can make a bigger impression than experience. Foster said, "Well trained pharmacologists are hard to find sometimes." He added, "It's clear now that in vivo skills are in high demand." Foster and his team use in vivo techniques for creating disease models and testing therapeutics.

- » **Center for Brain Sciences and Health**
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- » **The Neuroscience Research Centre**

Understanding the brain's jobs, though, also demands lots of work in behavior. Kathy Gogas, associate director of neuroscience, leads the behavioral group at Neurocrine Biosciences. She said, "We support a large component of all the programs." For example,

CONTINUED »



# the brain has no limitations...

Merck Sharp & Dohme is part of Merck & Co., Inc., one of the world's leading pharmaceutical companies with over 70,000 employees worldwide and an unparalleled reputation for innovative research and development.

**The Neuroscience Research Centre**, based in the UK, is one of the largest dedicated neuroscience research laboratories in the world and is a premier site for Merck. Located in picturesque parkland surroundings on the rural Hertfordshire/Essex border it is fully committed to the discovery of novel therapies for the treatment of disorders of the central nervous system including Alzheimer's disease, anxiety, depression, chronic pain and schizophrenia.

We will be attending the Society for Neuroscience meeting in Orlando, Florida between 2-7 November and will be interested to meet outstanding scientists who are creative thinkers, capable of achieving excellence through innovation. If you have a BSc or PhD in any **life/biological science including biochemistry, molecular biology, pharmacology or neuroscience**, we can provide a stimulating and challenging environment in which to develop a successful career. You would work with 250+ like-minded research scientists in purpose-built, state-of-the-art laboratories.

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You will be a dedicated experimentalist with 5-10 years' post-doctoral experience in the fields of neurobiology, neuroanatomy or neuropathology, with a strong publication record and international reputation. You will be excited by the challenge of applying your skills and expertise towards the development of new therapeutic approaches. Individuals with a clinical qualification who have a strong background in basic neuroscience are also encouraged to apply. **FASEB 212229-3**

## PhD – behavioural neuroscientist

We are looking for a PhD scientist, recently qualified or with up to 3 years' post-doctoral experience, to complement our expanding team investigating advances in cognition research. You will be actively involved in the design and development of *in vivo* models of learning and memory in the rodent. You will have a background in Neuroscience, Pharmacology or Psychology. A UK Home Office licence will be required. **FASEB 212229-4**

## BSc – *in vivo* neuroscientist

With a BSc (or equivalent) in Pharmacology, Neuroscience or a related subject you will, ideally, have over 2 years' *in vivo* experience, preferably in techniques involved in measuring neuronal activity. You will be used to working individually and within a team and capable of paying particular attention to detail. You will be required to use a number of techniques including local cerebral glucose metabolism, cerebral blood flow and cerebral protein synthesis. Your responsibilities will include preparations for drug administration and blood sampling, basic histological and image analysis methods and data presentation. Studies will be performed in various models of neuropsychiatric diseases (eg depression, schizophrenia and anxiety). A UK Home Office licence will be required. **FASEB 212229-5**

## PhD – stem cell biologist

As part of an initiative to develop neural stem cell biology and integrate it into our drug discovery process, we are seeking a stem cell biologist. You will take a leading role in a programme that will utilize novel imaging technologies, genomics and proteomics, in conjunction with stem cell biology, to identify novel molecular targets and innovative approaches for the treatment of neurological and neurodegenerative diseases.

You will have a PhD and several years' experience in the area of neural stem cell biology, either from an academic or industrial setting, and will be excited by the challenge of a new approach to drug discovery. **FASEB 212229-6**

## PhD – automation scientist

We are currently seeking a scientist with expertise in biochemistry and computing to play a key leadership role within our automated imaging group. This position is likely to suit a PhD scientist, ideally with several years' experience in academia or drug discovery, looking for a fresh challenge and the opportunity to develop his/her leadership and mentorship skills.

The automated imaging group at Terlings Park is responsible for the design and implementation of high throughput and high content screens and plays a pivotal role in the identification of novel compounds with the potential to become therapeutic drugs, using state-of-the-art automation and cell imaging technology. You will be responsible for the implementation of new technologies and for ensuring the successful running of the high throughput robotic facility. Capable of designing and programming robotic screening runs and automation trouble-shooting you will already have a strong grasp of analytical computing, expertise in biochemical assays, and an understanding of data acquisition and databases. **FASEB 212229-7**

# ...nor do our scientific careers

## PhD – cell assay scientist

As a creative and imaginative biologist, you will be capable of designing and optimising functional assays and have a good understanding of ion channels and/or cell biology, with an interest in automation and experimental design. Highly motivated, you will have a desire to explore scientific ideas and think critically and be capable of playing a pivotal role in the drug discovery process. This is a high-profile position, working closely with scientists from different disciplines, at all levels. Therefore, as well as a talent for novel assay design, and the enthusiasm to implement data analysis solutions, good interpersonal, teamwork and presentation skills will be required. **FASEB 212229-8**

## MD/PhD – head of experimental medicine

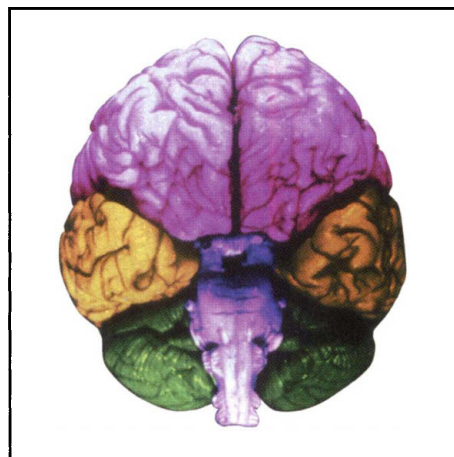
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# Neuroscience

## Teams taking on the brain



GERARD DAWSON

**ESSEX, United Kingdom:** Gerard Dawson, senior director of in vivo neuroscience at The Neuroscience Research Centre run by Merck, Sharp, & Dohme, which is the United Kingdom subsidiary of Merck & Company, also sees the lack of people skilled in in vivo techniques. He said, "On the in vivo side, we try to manipulate genes in transgenic mice and see how that changes

function and behavior. There are many people who can do the former, but the latter is more difficult to achieve because people with the necessary in vivo skills are in a big shortage." He added, "Bioinformatics also has a big shortage of people."

A few years ago, many companies interested in pharmaceuticals for neuroscience looked at Alzheimer's disease, pain, Parkinson's disease, stroke, and so on. In many cases, neuroscientists looked for brain lesions associated with symptoms of a disease. "Today, we go to genes and bioinformatics," Dawson said. "Now we look at cellular mechanisms and go through to a disease, such as depression." Accordingly, Dawson and his colleagues look for people with a broad understanding of cellular biology. Someone who understands the cellular aspects of neuroscience gains even more attention. In thinking of immediate needs, however, Dawson reiterated, "I would emphasize people with in vivo skills."

Whatever skill set someone carries, Dawson needs people who can twist and turn with the curves of change in neuroscience. He said, "We need people who aren't afraid of new areas and are prepared to learn. The brain is one of the new frontiers, and frontiers people need to be adaptable, flexible, and open-minded."

Dawson already sees some learning going on in today's new scientists. He indicated that, just five or so years ago, young scientists usually knew one specific skill. "Now young scientists come out multi-skilled—say being able to make a transgenic mouse and then genotype it. Maybe the same person can even test the mouse in a learning or anxiety paradigm." Beyond these broad skill sets, Dawson also searches

for team players. "Some people are clearly team players," he said. "You look for people who can work with others from different nations and backgrounds and cultures." Dawson starts with an applicant's curriculum vitae, where he looks for a broad experience, such as studying in more than one country.



ELLIOTT ALBERS

**ATLANTA, Georgia:** Some of today's institutes strive for a broad experience right from the start. Elliott Albers, director of the Center for Brain Sciences and Health at Georgia State University and codirector of the National Science Foundation's Science and Technology Center for Behavioral Neuroscience, said, "We are trying to train our graduate students to work with many principal investigators, and it is working quite well." In addition, Albers and his colleagues designed two tenure-track positions for people who run research labs and develop science outreach programs. In other words, Albers and his team really want to mix up their approach to neuroscience.

That reshuffling also appears in research at Georgia State. Although everyone points out bioinformatics and proteomics as hot research areas, Albers looks beyond the current radar screen. There he sees a growing link between neuroscience and other fields. For instance, scientists can genetically engineer a labeled virus that infects cells connected by a synapse, the site of chemical messaging between neurons. As a result, a neuroscientist can infect a tissue, say a muscle, with the virus and watch it leave a path from the muscle along motor neurons and back to the motor area of the brain. "We are excited to use these viruses," Albers said, "especially if they can be engineered to recognize neurons with specific phenotypes or a disease associated with them. This could be used to target drugs."

Albers and his colleagues focus on behavioral neuroscience. Specifically, they explore the neurobiology of aggression, affiliation, fear, and reproduction. These areas draw on skills of all of science. For instance, Albers said, "Imaging is going to be very important in understanding how behavior works." One of his colleagues in the Center for Behavioral Neuroscience, Mike Davis of Emory University, is already showing imaging's benefits. Davis can condition an animal to associate an odor with fear, and do so while the animal is anesthetized. Consequently Davis can use imaging to watch an animal's brain learn about fearful stimuli that are uncontaminated by movement artifact, which has been a major impediment to small animal imaging techniques.

Even after the dramatic growth in neuroscience over the past 15 years, Albers sees even more growth ahead. He said, "It's an excellent career choice." Moreover, Albers sees his own area of neuroscience as especially exciting. "We know the least about behavioral neuroscience," Albers said, "and it has some of the most complex areas, like learning, and we are just getting to the stage where cellular and molecular techniques can address these questions."

*Mike May is a freelance writer based in Madison, Indiana, U.S.A.*

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#### Senior Level PhD Scientist - Central Nervous System Research - 4321HS

In this role, you will provide scientific leadership to a group engaged in assay development; identification/in vitro pharmacological characterization of drug candidates, and validation of novel targets for the treatment of various CNS diseases.

To qualify, you must possess a PhD with a strong background in molecular pharmacology or biochemistry and at least 5 years of independent research experience in an academic or industrial setting. Expertise in radioligand binding techniques, signal transduction assays, high throughput assay development, and all common molecular biology techniques is essential. Excellent oral and written communication skills, the ability to work in a team setting and a strong publication record are also required.

#### PhD Scientist - CNS Behavior - 4078HS

As part of a core CNS behavioral group, you will establish a team to develop pre-clinical tests of psychiatric disorders to assess novel drug targets; perform pharmacodynamic tests to study drug action; and work with multidisciplinary project teams to discover novel CNS-based therapeutics.

To qualify, you must have PhD with a Neuroscience and/or Pharmacology focus and 1-3 years of postdoctoral experience, ideally in a drug discovery environment. A proven commitment to the application of behavior techniques to study drug action is essential.

#### Sr. Scientist - Cardiovascular Safety Pharmacology - 4501HS

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To qualify, you must have a PhD, MD or DVM, postdoctoral training in cardiovascular pharmacology, and up to 10 years of related experience in the pharmaceutical industry. The ability to conduct cardiovascular pharmacology tests using in vivo techniques is essential, as are effective interpersonal and oral/written communication skills. Supervisory experience is preferred.

#### BS/MS Research Associate - CNS Drug Discovery - 4452HS

You will be responsible for cloning, expression and pharmacological/ biochemical analysis of novel drug targets for the treatment of neuro-degenerative and psychiatric diseases.

To qualify, you must have a BS/MS in Molecular Biology and 3+ years of hands-on experience with all basic molecular biology techniques. Experience in radioligand binding techniques, signal transduction assays and/or enzyme kinetics is desirable.

#### BS/MS Research Associate-CNS Behavioral Discovery -4560HS

As part of a core behavioral group, you will be responsible for discovering novel CNS therapeutics. This includes conducting behavioral analysis in rodents, and designing, executing and performing data analyses of your work.

To qualify, you must have a BS/MS degree in Pharmacology, Neuroscience, Psychology or a related discipline. In-vivo experience, and strong familiarity with the behavioral study of laboratory animals is desired. Direct experience with behavioral methods is a plus.

#### Assoc Scientist/Scientist 2 - Neuro-Safety Pharmacology - 2877HS

In this role, you will conduct in vivo experiments to assess the neuropharmacological safety of new drug candidates, and assist with the implementation of new methodologies to study behavior.

To qualify, you must have a BS and 4+ years of directly related experience or an MS with at least 2 years experience. The technical ability to implement in vivo neuro-pharmacology methods is essential, as are strong interpersonal and oral/written communication skills. Experience supervising a technical staff is preferred.

#### Postdoctoral Fellow - CNS - Obesity Research - 4071HS

You will perform experiments with the goal of defining a model of rat diet-induced obesity (DIO) at the molecular/genetic level under basal conditions and after targeted drug therapy. You will receive training in the physiology/ neurobiology of obesity as well as the design, execution and interpretation of PCR- and micro-array based experiments.

To qualify, you must have a PhD in Neurobiology, Physiology or Feeding Behavior. Familiarity with molecular techniques is essential, as are relevant publications.

#### Postdoctoral Fellow - CNS Molecular Biology - 4262HS

As part of a multidisciplinary team, you will assess and validate genes involved in intestinal cholesterol absorption, and characterize protein function, sub-cellular localization and drug interactions.

To qualify, you must have a PhD in Cellular or Molecular Biology and the ability to execute an independent research project. Familiarity with heterologous gene expression and functional characterization is essential. A background with lipid analysis and vesicle trafficking is preferred. Experience with immunoprecipitation, westerns and fluorescence imaging is highly desirable.

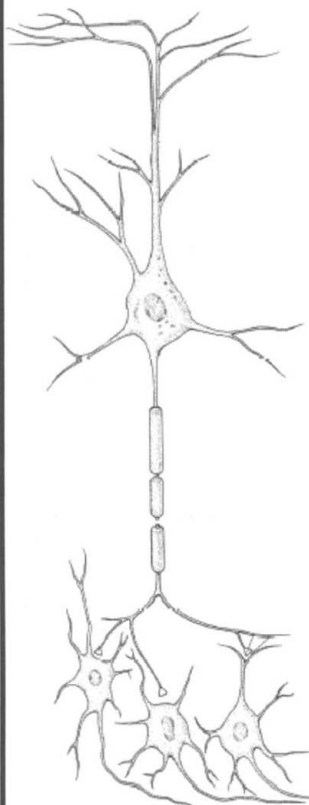
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## UC, Berkeley Department of Psychology and the Helen Wills Neuroscience Institute Assistant Professor, Systems Neuroscience

Pending budgetary approval, **The University of California at Berkeley** invites applications for a 100% tenure-track position at the **Assistant Professor** level beginning in Fall Semester 2003. This position is a joint appointment (50%/50%) with the Department of Psychology and the Helen Wills Neuroscience Institute at UC Berkeley.

Applicants should hold a doctoral degree in Psychology, Neuroscience, Cognitive Neuroscience or a related field. We are particularly interested in candidates employing single unit techniques and/or computational approaches to the study of the neural mechanisms of behavior.

Applications must be postmarked by January 15, 2003, and should include a resume, selected publications, and a brief statement of research interests and future plans sent to: **Neuroscience Search Committee, Department of Psychology, 3210 Tolman Hall, University of California, Berkeley, CA 94720-1650**. Candidates should also arrange to have at least three letters of recommendation sent to the same address and to request that referees read the University's statement on confidentiality (<http://apo.chance.berkeley.edu/evaltr.html>) prior to submitting their letters. Applications postmarked after January 15, 2003, cannot be considered. Review of completed applications will begin October 15, 2002.

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## POSITION IN SYSTEMS NEUROSCIENCE CENTER FOR NEUROSCIENCE DBS: NPB UNIVERSITY OF CALIFORNIA, DAVIS

The Center for Neuroscience and the Section of Neurobiology, Physiology and Behavior, in the Division of Biological Sciences, University of California, Davis, invite applications for a Systems Neuroscientist at the assistant professor level, to begin July 1, 2003. Specialization within the areas of sensory perception, motor control or computational neurobiology is preferred. We are particularly interested in faculty who can work in conjunction with the Calif. Regional Primate Research Center, located at UC Davis. Applicants will be expected to demonstrate leadership in their research specialty, obtain extramural funds, and teach systems neuroscience courses at both graduate and undergraduate levels. Candidates must possess a Ph.D. or M.D. degree.

Applicants should send a letter describing research and teaching interests, a curriculum vitae, copies of representative publications, and the names of at least five persons from whom references will be obtained to: **Edward G. Jones, Director, Center for Neuroscience, 1544 Newton Court, University of California, Davis, CA, 95616-8659**. All materials must be received by November 30, 2002, to be assured consideration. The search will continue until this position is filled.

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**Center for Neuroscience**

**University of California, Davis**

## Faculty Position in Molecular/Cellular Neuroscience

 **Washington University in St. Louis**

## Department of Anatomy and Neurobiology

We seek an individual taking innovative molecular or cellular approaches to fundamental questions in neural development, function, or behavior for a tenure track position as an Assistant Professor in the Department of Anatomy & Neurobiology at Washington University School of Medicine in St. Louis, MO. (see website: <http://pcg.wustl.edu>). The department houses 25 active research labs in neurobiology, and is part of a much larger inter-departmental neuroscience program (see website <http://pcg.wustl.edu/Neuroweb>). Excellent shared facilities are available for molecular and cellular neuroscience, including imaging (electron, confocal and two-photon microscopy), and mouse genetics (generation and behavioral analysis of transgenic and knockout lines). Both the department and the neuroscience program offer numerous opportunities for scientific interactions and collaborations.

Send by email to [susan@pcg.wustl.edu](mailto:susan@pcg.wustl.edu) a synopsis of research interests, a CV, and names and phone/fax/email of three references (send as ONE email attachment). Or send by regular mail to: **Dr. David Van Essen, Anatomy and Neurobiology, Box 8108, Search Committee, Washington University Sch Med, 660 S Euclid, St. Louis, MO 63110, by December 1, 2002.**

AA/EOE M/F/D/V.



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### Faculty Position in Neuro-Engineering University of Houston

#### Electrical and Computer Engineering – [www.egr.uh.edu/ece](http://www.egr.uh.edu/ece)

As part of its expanded emphasis in Neuro-Engineering, the Department of Electrical and Computer Engineering (ECE) at the University of Houston invites applications for a junior-level (Assistant Professor) tenure-track position. Our present strengths are in visual perception and neuro-signal analysis/modeling with current funding from NIH, NSF, and the State of Texas. While all areas of neuro-engineering will be considered, candidates with research expertise in neural implants are especially encouraged to apply. The successful candidate will have an earned doctorate in electrical engineering or related discipline and possess a record of scholarship appropriate to their experience level. The appointment will be effective August 16, 2003.

The successful candidate can expect a highly competitive start-up package and numerous opportunities for collaboration. In addition, qualified candidates are expected to develop a funded research program, and to teach at the undergraduate and graduate levels. The successful candidate will become a member of the newly established University of Houston Center for Neuro-Engineering and Cognitive Science, which offers an excellent environment for multi-disciplinary research and collaboration. The proximity of the Texas Medical Center offers further collaboration opportunities.

The University of Houston is a public university with 23,000 undergraduates and 9,000 graduate students located in a park-like campus a few minutes from downtown. The ECE Department has 34 tenure-track faculty, 800 undergraduates and 250 graduate students. The candidates should send a curriculum vitae, a cover letter that includes research and teaching interests, copies of selected publications, and the names of at least three references to: **Dr. Fritz Claydon, Professor and Chair of the Search Committee, Department of Electrical and Computer Engineering, N308 Engineering Bldg. 1, University of Houston, Houston, TX 77204-4005.**

To ensure full consideration, applicants should respond by **January 15, 2003**, though review will begin immediately and continue until the position is filled.

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and persons with disabilities are encouraged to apply.*

### Department of Health and Human Services National Institutes of Health

#### National Institute of Mental Health

An exciting position is currently available as a Program Officer with the Research Training and Career Development Office, in the Division of Neuroscience and Basic Behavioral Science (DNBBS), NIMH, NIH. This interdisciplinary scientific position may be filled through a range of job series, at grades GS-12, 13, or 14, based on the qualifications of the person chosen. Salary ranges from \$55,694 to \$102,965 (includes special rate for Medical Officers), and a full range of Federal benefits. The DNBBS Research Training and Career Development Office fosters the training of new investigators and enhances the career development of clinical and basic neuroscientists as well as basic behavioral scientists. The program's content areas include clinical neuroscience, molecular and cellular neuroscience, behavioral and integrative neuroscience, genetics, basic behavioral science, and preclinical and clinical therapeutics. DNBBS research training and career development programs include: Institutional Training Grants, Mentored Career Development Awards, Mental Health Education Grants, and Individual Predoctoral and Postdoctoral Fellowships. The incumbent will provide scientific and administrative oversight of grants supported by these programs, and serve as a program expert regarding the education and training of mental health research personnel. A copy of the full text vacancy announcement describing qualifications and instructions for applying is available at the NIMH Website at <http://www.nimh.nih.gov/orm/pmb/nimhjobs.cfm>. Please refer to announcement number NIMH-02-0159. To apply for the position send resume to: NIMH Personnel Management Branch, 6001 Executive Blvd., Rm. 8154, MSC 9661, Bethesda, MD 20892-9661, 301-443-9094, FAX to 301-443-1401, or e-mail: [NIMHHPersonnel-R@mail.nih.gov](mailto:NIMHHPersonnel-R@mail.nih.gov). Applications must be post-marked by the closing date of December 6, 2002 and received within five business days of the closing date. U.S. citizenship is required. DHHS/NIH is an Equal Opportunity Employer.

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The Department of Anatomy & Neurobiology is recruiting new tenured/tenure track faculty in neuroscience. Appointments will be made at **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** ranks.

We are especially seeking applications from candidates who will complement the Department's existing strengths in sensory, systems and developmental neurobiology. Of particular interest are candidates using innovative molecular biological, cellular or computational approaches to understand organization/function or development/plasticity of the mammalian CNS.

Our facilities include state-of-the-art core laboratories in molecular neurobiology, imaging, neurophysiology and neuroanatomy. We offer an outstanding intellectual and collaborative environment with highly competitive salary and start-up packages. The department has NIH Program Project and Training Grants. Departmental faculty are members of the interdisciplinary Program in Neuroscience (<http://neuroscience.umaryland.edu>).

Successful candidates must have a Ph.D. or equivalent, evidence of productivity and innovation and the potential to establish an independently funded research program. For best consideration, applications should be received before November 30, 2002. Candidates should submit a detailed curriculum vitae, a statement of research interests and goals, and the names and addresses of three to five references. Electronic submission of all application materials (including supporting letters), as Microsoft Word file attachments to [facsearch@umaryland.edu](mailto:facsearch@umaryland.edu), is preferred. Paper applications may be mailed to: **Drs. Frank Zufall & Steven D. Munger, Co-Chairs, Faculty Search Committee, Department of Anatomy and Neurobiology, University of Maryland School of Medicine, 685 West Baltimore St., Baltimore, MD 21201; <http://neurobiology.umaryland.edu>.**

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**THE CLEVELAND CLINIC**



**Faculty Position in the  
Department of Neurosciences  
Lerner Research Institute  
The Cleveland Clinic Foundation**

The Department of Neurosciences seeks outstanding candidates to fill several Faculty positions. While the search is focused at the Assistant Professor level, qualified Associate or Full Professor candidates will be considered. Applicants must have a Ph.D. and/or M.D. and an active, independent research program that utilizes state-of-the-art techniques to investigate cellular and molecular aspects of neurobiology. Candidates with research programs in glial development, cerebellar or cortical development, synapse function, cell signaling, or pathogenesis of human CNS disease are encouraged to apply. Excellent departmental facilities and generous start-up funds are available.

The Department of Neurosciences and the Lerner Research Institute ([www.lerner.ccf.org](http://www.lerner.ccf.org)) are undergoing rapid growth. The Department of Neurosciences has strong programs in developmental neurobiology, excitable membranes, and cell signaling. Opportunities for interactions with Clinical Neurosciences Departments are plentiful.

Candidates should submit a curriculum vitae, a list of publications, a brief statement of research interests, and three letters of reference to:

**Bruce D. Trapp, Ph.D.  
Department of Neurosciences NC30  
The Cleveland Clinic Foundation  
9500 Euclid Ave  
Cleveland, OH 44195**

AA/EOE

**The Department of Neuroscience,  
The Ohio State University College  
of Medicine and Public Health**

Three tenure-track faculty positions are available at the Assistant, Associate or Full Professor level. The department is expanding in concert with several programs within the Medical Center, including new efforts in bioimaging and the neurobiology of disease. We are especially interested in research that will complement our programs in development, regeneration, repair, and neurodegeneration through the application of imaging technologies, cellular or systems electrophysiology, and molecular biology, but all areas of neuroscience with relevance to neurological disorders will be considered.

This is an exciting era of increasing growth at the Ohio State University Medical Center, with an ambitious plan for the addition of new research facilities and faculty. Neuroscience is a new department with a current faculty of 16 full-time members; there are many other neuroscientists affiliated with the Neuroscience Graduate Studies Program, a University-wide degree-granting program.

Mail or e-mail applications and inquiries to **Michael Beattie, Ph.D., Brumbaugh Professor and Chair, Department of Neuroscience, OSU Medical Center, 4068 Graves Hall, 333 W. 10<sup>th</sup> Ave, Columbus, OH 43210. 614-292-6639, or [beattie.2@osu.edu](mailto:beattie.2@osu.edu). For further information, see <http://medicine.osu.edu/neuroscience/>**



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Perceptual and Cognitive  
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Interested candidates should have experience in clinical studies and/or visual psychophysics/neuropsychology.

Please send CV and a list of publications to: **Prof. Dr. B.A. Sabel, Univ. of Magdeburg, Medical Faculty, Inst. of Med. Psychology, Leipziger Str. 44, 39120 Magdeburg, Germany, email: [Kerstin.Hahn@Medizin.Uni-Magdeburg.DE](mailto:Kerstin.Hahn@Medizin.Uni-Magdeburg.DE)**



**UMDNJ**

**TENURE-TRACK POSITIONS  
NEUROSCIENCE AND CELL BIOLOGY**

The University of Medicine and Dentistry of New Jersey-Robert Wood Johnson Medical School seeks applicants for tenure-track positions in neuroscience and cell biology. Investigators with interests in molecular, cellular or developmental neurobiology or the relationship of biology to behavior and mentation are encouraged to apply. Positions will be available beginning July 2003.

Please submit CV, a summary of scientific interests and goals, and three letters of recommendation to: **Ira B. Black, M.D., Professor and Chairman, Department of Neuroscience and Cell Biology, UMDNJ-Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5635.**

UMDNJ is an AA/EOE, M/F/D/V. Regrettably we can respond only to those candidates chosen for an interview. For more information, please visit our website at: <http://www2.umdj.edu/neuroweb/NCB/index.htm>



**ROBERT WOOD JOHNSON  
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THE STATE UNIVERSITY OF NEW JERSEY  
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**Systems/Molecular  
 Neuroscientist  
 Center for Molecular and  
 Behavioral Neuroscience**

One state-funded, tenure-track faculty position is available for appointment at the assistant professor level. Neuroscientists stimulated by the opportunities offered by the integrated focus and collaborative environment of the Center in the areas of molecular, systems and behavioral research are encouraged to apply. The Center is in close proximity to the UMDNJ Medical School and shares a joint graduate program with them in integrated Neuroscience. The Newark campus is near New York City and attractive New Jersey countryside living.

Interested neuroscientists should send their CV, names of three references and a brief letter of research goals and philosophy to **Drs. Paula Tallal and Ian Creese, Co-Directors, Center for Molecular & Behavioral Neuroscience, Rutgers, The State University of New Jersey, 197 University Avenue, Newark, New Jersey 07102.**

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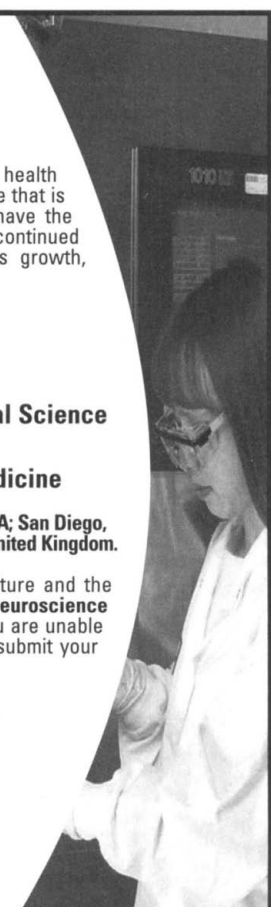
For more information on Merck Research Laboratories, our culture and the opportunities that await you, please visit us at the **Society for Neuroscience 32nd Annual Meeting** in Orlando, FL, November 2-7, 2002; or, if you are unable to attend please visit: [www.merck.com/careers](http://www.merck.com/careers) where you may submit your resume online.

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**Postdoctoral Training Program in  
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The NIDCD-funded Training Program in Chemosensory Neuroscience at the University of Maryland School of Medicine invites applicants for postdoctoral positions. Training faculty, who publish frequently in high impact journals, have expertise in contemporary molecular approaches, tissue culture, immunocytochemistry, *in situ* hybridization, quantitative anatomical and functional imaging, electron microscopy, intracellular, patch-clamp and extracellular electrophysiology in both *in vivo* and *in vitro* preparations, neuropharmacology, and behavioral methods.

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**Asaf Keller** - olfactory bulb and cortical neurophysiology, functional imaging  
**Trese Leinders-Zufall** - molecular sensing, second messenger signaling  
**Frank L. Margolis** - olfactory gene expression,  $\text{Na}^+/\text{Ca}^{2+}$  exchangers  
**Steven D. Munger** - chemosensory receptors/transduction mechanisms, behavior  
**Adam Puche** - olfactory development, cell migration, neuroanatomy, physiology  
**David W. Pimplin** - taste receptor cell innervation, immunocytochemistry  
**Linda J. Richards** - axon guidance, genetic regulation of cortical development  
**Michael T. Shipley** - bulb electrophysiology, functional imaging, neuroanatomy  
**Daniel Weinreich** - vagal electrophysiology, immune hypersensitivity states  
**Frank Zufall** - olfactory and vomeronasal function, ion channels, behavior

Successful applicants must have a Ph.D. or M.D. in a related biological discipline. Preference is given to candidates who bring new approaches to research in the chemical senses. Applicants must be U.S. citizens or resident aliens. Interested individuals should contact one of the mentors above or **Frank L. Margolis Ph.D., Chemosensory Training Program Director, Department of Anatomy and Neurobiology, HSF280, University of Maryland School of Medicine, 685 West Baltimore Street, Baltimore MD 21201, [fmargoli@umaryland.edu](mailto:fmargoli@umaryland.edu), <http://neurobiology.umaryland.edu/postdoc.htm>.**

**NATIONAL NEUROSCIENCE INSTITUTE  
 SINGAPORE**

**Research Positions in Neuroscience**

The National Neuroscience Institute of Singapore is moving to establish a strong research faculty focused on disease related neuroscience research, both basic and translational. We invite applications for the positions of **principal investigator** and **post-doctoral research fellow** for research programmes in molecular mechanisms or pharmacology in neuroscience. Attractive remunerations are offered according to the experience of the candidate. Start-up funds will also be available to principal investigators.

**Principal Investigators**

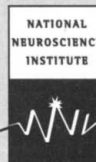
Candidates should have a PhD degree with experience as principal investigator or senior post-doctoral fellow in neuroscience research. The individual will lead an independent neuroscience research programme and engage in cooperative research with fellow researchers.

**Post-doctoral Research Fellows**

Candidates should have a PhD degree with a strong background in neuroscience research. The individual will work on independent research studies as part of a research programme.

Please submit a detailed curriculum vitae and particulars of 3 references to:

Prof Simon Shorvon (Director) or  
 Dr Woon-Chee Yee (Deputy Director, Research)  
 National Neuroscience Institute  
 11 Jalan Tan Tock Seng  
 Singapore 308433  
 Republic of Singapore  
<http://www.nni.com.sg>  
 email: [michelle\\_lian@ttsh.com.sg](mailto:michelle_lian@ttsh.com.sg)







## Stowers Institute Postdoctoral Program

The Stowers Institute seeks more effective means of preserving health and preventing disease through basic research on genes and proteins that control fundamental processes of cellular life. The Institute offers fellowships for postdoctoral research training in state-of-the-art laboratories headed by outstanding scientists who work at the bench alongside their team members. Among the mentors are:

**Robb Krumlauf, Ph.D.**

*Regulatory pathways in the developing brain & nervous system*

**Peter Baumann, Ph.D.**

*Telomeres in aging and cancer*

**James Coffman, Ph.D.**

*Genomic regulatory systems in sea urchin embryogenesis*

**Joan Conaway, Ph.D.**

*Mechanism and regulation of transcription by RNA polymerase II*

**Ron Conaway, Ph.D.**

*Molecular mechanism and regulation of gene transcription*

**Chunying Du, Ph.D.**

*Control of apoptosis in mammalian systems*

**Jennifer Gerton, Ph.D.**

*Mechanisms ensuring fidelity of chromosome distribution*

**Scott Hawley, Ph.D.**

*Control of meiotic chromosome behavior in Drosophila*

**Linheng Li, Ph.D.**

*Regulatory networks in hematopoietic stem cell development*

**Olivier Pourquié, Ph.D.**

*Regulation and timing of vertebrate segmentation*

**Paul Trainor, Ph.D.**

*Tissue interactions regulating cranial and facial development*

**Ting Xie, Ph.D.**

*Molecular regulation of germline stem cells in Drosophila and mouse*

**Paul Kulesa, Ph.D.**

*Cellular behavior during morphogenesis; imaging of embryogenesis*

**Arcady Mushegian, Ph.D.**

*Computational analysis of genes and proteins*

**Brian Sauer, Ph.D.**

*Biochemical genetics of the Cre/lox system; gene targeting in mice*

More information may be found at:

**www.stowers-institute.org**

*The Stowers Institute is committed to equal opportunity in all its programs.*

## UND University of North Dakota Grand Forks

The University of North Dakota School of Medicine and Health Sciences has recently received a COBRE grant from the NIH to establish a center of excellence in the "Pathophysiology of Neurodegenerative Diseases." This is a 5 year award of \$10.3 M headed by **Jody A. Rada** (P.I.) and represents a major commitment by the University to the rapid expansion of neuroscience research. This grant will establish state-of-the-art core facilities in mass spectrometry and confocal microscopy, which will augment new imaging facilities, including a micro-PET scanner. The University also has a new animal facility and is breaking ground for a neuroscience building. The following project leaders are looking for motivated *post-doctoral fellows and graduate students* to fill multiple research positions in their laboratories:

**Colin K. Combs** studies mechanisms of microglial activation and their contributions to the neuronal losses occurring in Alzheimer disease. Characterizing specific signaling mechanisms of glia-neuron interaction will define opportunities for therapeutic intervention.

**James E. Porter** studies the structure and functional characteristics of G protein-coupled receptor mediated inflammatory signaling mechanisms relating to neurodegeneration. Techniques include site-directed mutagenesis, cell culture, protein chemistry, second messenger quantification and molecular modeling.

**Matthew J. Picklo** studies the relationship of carbonyl detoxification, aldehyde dehydrogenases, and Alzheimer disease. These projects involve the analysis of HNE/HNE metabolites by LC/MS in model systems and human tissue, the alteration of ALDH using primary cultures and cell lines and the pharmacologic elevation of carbonyl detoxification *in vitro* and *in vivo*.

**Eric J. Murphy** studies the effect of  $\alpha$ -synuclein on brain fatty acid and phospholipid metabolism in gene-abated mice and in cell cultures using steady-state radiotracer and stable isotope techniques. These projects use a variety of modern lipid biochemical techniques including GC/MS, LC/MS, and two-photon confocal microscopy.

**Van A. Doze and Patrick A. Carr** study the function and modulation of interneurons and their role in epilepsy. These projects use a variety of modern electrophysiological, molecular biological, ultrastructural, and imaging techniques, including whole-cell patch clamp recordings, single-cell PCR, electron and confocal microscopy.

The University of North Dakota, with about 12,500 students, is located in Grand Forks, ND, a family-oriented community of over 45,000 people with excellent schools, parks, and abundant year-round outdoor recreational activities. These positions offer competitive salaries and benefit packages, including complete paid family medical insurance. For further information, call **701-777-6221**. For immediate consideration send your CV and two letters of reference addressed to the project leader of interest to:

**University of North Dakota  
School of Medicine and Health Sciences  
501 N. Columbia Rd.  
Grand Forks, ND 58202-9037**

*The University of North Dakota is an Equal Opportunity Employer. Hiring is contingent upon eligibility to work in the United States of America.*



## Position as Research Associate (Forskarassistent) at the Centre of Gender Related Medicine (Centrum för Genusmedicin) at Karolinska Institutet, Stockholm, Sweden.



The Centre of Gender Related Medicine is a newly started centre at Karolinska Institutet (first in the world) with a sex and gender perspective in biomedical research from cell to society. The position is funded by a special donation for **cardiovascular research** and administered by the Centre of Gender Related Medicine.

The position, available for 2 + 2 years, is primarily for research, but will include some teaching and seminars within the Centre.

Applicants must have a Ph.D.-examination or an international equivalent. The position is available within 5 years after the Ph.D. or more if special reasons exist (such as maternity leave, military duty or trade union representation).

The position will be allocated to the applicant with the highest scientific qualification concerning type of project, methods, results and the applicant's own capacity as a researcher. Both basic and clinical research projects are of interest. If Ph.D. students are already bound up to the project, this is considered as favourable. A gender perspective is necessary.

International and national applications are welcome.

For further information please contact Associate Professor Karin Schenck-Gustafsson, Coordinator for the Centre of Gender Related Medicine, e-mail: **karin.schenck-gustafsson@ks.se**, phone +46 8 517 74686 or administrator Britt-Marie Höglund, e-mail: **britt-marie.hoglund@ks.se**, phone +46 8 517 72245.

The application in English should contain:

- Curriculum vitae
- Qualifications and a description of future research according to Karolinska Institutet qualification portfolio (<http://info.ki.se>)
- Two letters of recommendation
- Ten scientific publications of your choice
- **1 original and 10 copies of the application**
- We welcome your application, marked with **reference number 5251/02-223** to Karolinska Institutet, Registrar, SE-171 77 Stockholm, Sweden
- **Last day of application: November 15, 2002.**

E-mail application is accepted but certified documents must be sent by mail.

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Work and train beside some of today's most respected scientists at the Oklahoma Medical Research Foundation – and be a part of something important.

Biomedical research continues to be at the forefront of human ingenuity and scientific exploration. At OMRF, we've made leadership in these areas a tradition for over fifty years.

Located in the heart of the Oklahoma Health Center – a hub of medical and research-oriented institutions – OMRF is home to world-renown scientists and numerous biomedical accomplishments. Research at OMRF focuses on the basic science of human disease: immunology, biochemistry, and molecular/cellular biology. And in the past decade alone, our scientists have been responsible for major breakthroughs in cardiovascular disease, Alzheimer's disease, and lupus.

## It's only the beginning.

The Oklahoma Medical Research Foundation is accepting applicants for both graduate and post-graduate doctoral fellowship training programs, as well as independent investigators/members. (Graduate Degrees are granted through the University of Oklahoma Health Sciences Center.) Be a part of it. Find out more by visiting [www.omrf.org](http://www.omrf.org), or call 1-800-522-0211 today.

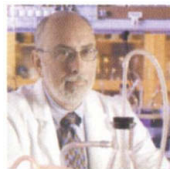
Carol Webb, Ph.D.  
Immunobiology and Cancer



Charles Esmon, Ph.D.  
Cardiovascular Biology



J. Donald Capra, M.D.  
Molecular Immunogenetics



James Rand, Ph.D.  
Molecular and Cell Biology



### Structural Biology

OMRF invites applications for a mid to senior level position in a Structural Biology Research Program. All applicants must have a strong research program in structural biology and demonstrated competence in administrative supervision. Expertise in X-ray crystallography is preferred, but we are open to areas using other biophysical techniques. Opportunity is available for significant research collaboration with other programs inside the foundation. The successful applicant is expected to: (1) maintain strong, externally funded research projects, (2) provide scientific and managerial leadership, (3) facilitate program development, and (4) foster strong interdisciplinary ties among research programs inside the institute. The OMRF Structural Biology program houses a state-of-the-art X-ray crystallography core facility. Other institutional cores include Imaging, Microarray, DNA Sequencing, Transgenics, and (in 2003) fMRI facilities. Applicants should submit a curriculum vitae and a letter of application explaining interest in the position, qualifications, previous professional responsibilities and achievements, and leadership/administrative philosophy. **All materials should be directed to J. Donald Capra, M.D., President, The Oklahoma Medical Research Foundation, 825 Northeast 13th Street, Oklahoma City, OK, 73104. E-mail inquiries and applications can be sent electronically to [JDonald-Capra@omrf.ouhsc.edu](mailto:JDonald-Capra@omrf.ouhsc.edu).**

### Diabetes Studies

OMRF seeks applicants to participate in a new Diabetes research initiative at OMRF. Persons with an interest in the vascular biology of the complications of diabetes are particularly encouraged to apply. The successful applicant will have a proven record of innovative basic science research related to diabetes or its complications, and should have a sound understanding of the clinical implications of diabetes, its pathogenesis, epidemiology, and complications. OMRF houses ten established research programs, with internationally recognized strengths in the areas of Immunology, Neurobiology, and Cardiovascular Biology. OMRF scientists enjoy state-of-the-art core facilities, including Imaging, DNA Sequencing, Microarray, Transgenics, X-ray Crystallography and (in 2003) an fMRI facility. In addition, OMRF is adjacent to the University of Oklahoma Health Sciences Center, where active clinical and research programs have recently been established for both adult and pediatric diabetes, and where there is a full range of clinical and basic science biomedical departments. A General Clinic Research Center has recently been established at OUHSC. The new position therefore provides outstanding opportunities for collaborative research, both within OMRF and with researchers at OUHSC. The successful applicant will have a PhD and/or MD, at least ten years experience as a faculty member, and credentials in teaching and development of faculty as well as in research. He/she will undertake leadership and administrative responsibilities related to academic programs, personnel management and budgetary oversight. Applicants should submit a curriculum vitae and a letter of application explaining interest in the position, qualifications, previous professional responsibilities and achievements, and leadership/administrative philosophy. **All materials should be directed to Robert A. Floyd, Ph.D., The Oklahoma Medical Research Foundation, 825 Northeast 13th Street, Oklahoma City, OK, 73104. E-mail inquiries and applications can be sent electronically to [Robert-Floyd@omrf.ouhsc.edu](mailto:Robert-Floyd@omrf.ouhsc.edu).**



FOR MORE INFORMATION AND JOB OPENINGS, VISIT [www.omrf.org](http://www.omrf.org)

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## ASSOCIATE AND FULL PROFESSORS STRUCTURAL BIOLOGY – CANCER DRUG DISCOVERY

The College of Medicine and the H. Lee Moffitt Cancer Center and Research Institute at the University of South Florida are seeking applications from Associate and Full Professor level individuals to participate in the Cancer Center Drug Discovery Program. Applicants must have a demonstrated track record in research areas related to structural biology. Special emphasis is being placed on X-ray crystallography and NMR spectroscopy and their application to the elucidation of structure-function relationships. Areas of research focus could include the structure of proteins, protein/protein and protein/drug interactions. Experience in the areas of growth factor signal transduction, oncogenes, tumor suppressor genes or cell cycle is preferred but not required. Applicants should also have a great desire to interact with bioorganic chemists. One of the major goals of the Drug Discovery Program is to stimulate interactions among molecular biologists, organic chemists, structural biologists and pharmacologists and to identify rational targets and design small molecules for cancer therapy.

Individuals at the rank of Associate Professor must hold Ph.D. and/or M.D. degrees and possess a demonstrated potential for extramural funding. Academic rank of Associate Professor ordinarily requires a minimum of five years of continuing and productive service as an Assistant Professor in a university setting or equivalent. Individuals for Full Professor must have a proven track record of independent research, leadership ability and training experience as evidenced by publications and extramural funding. Minimum of five years of continuing and productive service as an Associate professor in a university setting or equivalent.

The Moffitt Cancer Center and USF offer an outstanding salary, benefits and relocation package. Academic rank and salary will be commensurate with experience and qualifications. These tenure-track positions will be assigned to the Department of Interdisciplinary Oncology within the College of Medicine.

Send current curriculum vitae and a brief statement of major academic interests to **Professor S.M. Sebti, Director, Drug Discovery Program, H. Lee Moffitt Cancer Center, 12902 Magnolia Drive, Tampa, Florida 33612, (e-mail: [sebti@moffitt.usf.edu](mailto:sebti@moffitt.usf.edu))**. This position will be open until filled. Application review begins November 15, 2002.

H. LEE  
**MOFFITT**  
Cancer Center & Research Institute

**The End Of Cancer Begins Here.**

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College of Medicine

The University of South Florida is an  
EO/AA/EA institution. For disability  
accommodations, contact Kathy Jordan  
at 813-632-1451 a minimum of  
5 working days in advance. According  
to FL law, applications and meetings  
regarding them are open to the public.

## University of Pennsylvania

### Faculty Positions

**Leonard and Madlyn  
Abramson Family Cancer Research Institute  
at the University of Pennsylvania**

The University of Pennsylvania seeks outstanding candidates for tenure-track faculty positions in the recently created Abramson Family Cancer Research Institute, which is an integral part of the University of Pennsylvania Abramson Cancer Center and the School of Medicine. Faculty appointment will be Assistant, Associate or Full Professor in an appropriate department in the School of Medicine. Rank will be commensurate with experience. Applicants must have an MD and/or PhD degree.

Candidates who have scientific interests and experience in any field of cancer biology, including, but not limited to cell cycle control, tumor suppressor genes, oncogenes, cancer genetics, signal transduction, angiogenesis, apoptosis, and translational research, should send a letter of interest, curriculum vitae and the names of references to:

**Craig Thompson, M.D.**  
**Scientific Director**  
**The Abramson Family**  
**Cancer Research Institute**  
**4th Floor – BRB II/III**  
**421 Curie Blvd.**  
**Philadelphia, PA 19104**

[www.uphs.upenn.edu/abramson](http://www.uphs.upenn.edu/abramson)

*Leonard & Madlyn*  
**ABRAMSON**  
*family*  
  
**CANCER**  
**RESEARCH**  
**INSTITUTE**  
at the University of Pennsylvania  
Cancer Center

The University of Pennsylvania is an equal opportunity/affirmative action Employer.  
Women and minority candidates are strongly encouraged to apply.



**Northeastern**  
UNIVERSITY

### Assistant or Associate Professor

The Department of Pharmaceutical Sciences, School of Pharmacy, Bouvé College of Health Sciences at Northeastern University is seeking applicants for a faculty position at the rank of Assistant or Associate Professor. Northeastern University is a doctoral/research extensive university located in the heart of Boston. Excellent opportunities exist for collaboration within the Department, University, and the surrounding biomedical/biotechnology community. This position is part of Northeastern University's interdisciplinary initiative in Biotechnology.

The applicant must have a doctoral degree in pharmaceuticals or related field and at least two years of post-doctoral experience. Candidates at the Assistant Professor level should provide evidence of their ability to develop and sustain independent, externally funded research. Candidates at the Associate level should provide clear evidence of an active research program with a solid track record of funding and appropriate publications.

The candidate is expected to conduct research in the field of pharmaceutical biotechnology, including, but not limited to, formulation development and drug delivery. The candidate is required to participate in bio-pharmaceuticals and pharmacokinetics-related instruction to professional PharmD and graduate students (MS and PhD) in the School of Pharmacy. The candidate must have experience in, or a demonstrated commitment to, achieving and maintaining diversity in the workplace.

The position is open immediately and will remain open until a suitable candidate is identified. Salary is commensurate with experience and appropriate institutional support for an active research program will be available. Applicants should send a copy of their curriculum vitae, a summary of research activities and plans, and a history of instructional activity. In addition, they should arrange for three letters of recommendation to be mailed to: Mansoor M. Amiji, PhD, RPh, Associate Professor and Search Committee Chair, Department of Pharmaceutical Sciences, School of Pharmacy, Bouvé College of Health Sciences, 110 Mugar Life Sciences Building, Boston, MA 02115. E-mail: [m.amiji@neu.edu](mailto:m.amiji@neu.edu).

*Northeastern University is an Equal Opportunity/Affirmative Action,  
Title IX employer. Minorities, women, and persons with disabilities  
are strongly encouraged to apply.*

**[www.bouve.neu.edu](http://www.bouve.neu.edu)**



## ASSISTANT PROFESSOR OF HUMAN GENETICS

The Department of Human Genetics at the University of Utah School of Medicine is initiating a new, major expansion, recruiting twelve new investigators over the next six years to build upon existing strengths in Human Genetics and Developmental Biology.

We are seeking outstanding applicants at the level of Assistant Professor in the broad fields of Genetics and functional Genomics, including, but not limited to, animal models of human disease and development, genetic approaches to complex diseases, and population genetics/genetic epidemiology. Creative scientists with a record of achievement and commitment to excellence in both research and teaching are encouraged to apply. Successful candidates will receive a substantial start-up package and enjoy a stimulating and supportive research environment.

Applicants should submit curriculum vitae, a summary of research plans, relevant reprints and/or preprints, and 3 letters of reference to:

**Dr. Mario R. Capecchi**  
Co-Chairman, Department of Human Genetics  
Howard Hughes Medical Institute  
University of Utah School of Medicine  
15 North 2030 East, Room 5440  
Salt Lake City, UT 84112-5331



The application deadline is November 15, 2002.

The University of Utah is an Equal Opportunity/Affirmative Action Employer, encourages nominations and applications from women and minorities, and provides reasonable accommodation to the known disabilities of applicants and employees.

## ABBOTT BIORESEARCH CENTER

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Each part of the circle is connected in the discovery and development of Abbott's life-improving products. At Abbott Bioresearch Center (ABC), a drug discovery and biologics manufacturing unit of Abbott Laboratories, we are recognized as a world class research facility that produces innovative products, leverages new technology and attracts top-level, talented scientists. Located on a 30-acre campus adjacent to the Worcester Biotechnology Park, we employ over 400 employees devoted to pharmaceutical research and pre-clinical development.

### Group Leader – Immunopharmacology

The successful candidate will lead a team of scientists in the Pharmacology Department focused on discovery research in the areas of autoimmune diseases, inflammatory diseases and organ transplant rejection. Responsibilities include supervising members of a research lab in addition to managing 2-3 lab heads and their research groups. Research will focus on the pharmacological evaluation of test agents in representative *in vivo* and *in vitro* models, including planning and executing experiments, data analysis and interpretation, and communication of experimental results at various meetings. Additional responsibilities include involvement in animal model and cell-based immunobiological assay development and validation, as well as new target identification and validation. Requirements include a Ph.D. or equivalent degree in immunology, pharmacology or a related field and a minimum of 5 years experience in multi-disciplinary pharmaceutical or biotechnology industry drug discovery research. The demonstrated ability to manage and motivate scientists and their research groups, a strong immunology background and excellent organizational, interpersonal, strategic and communication skills are required.

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## Doctoral Training Program

*Frontiers in Genetics* is an international program for doctoral training, supported by the Swiss National Science Foundation. The program is based at the **University of Geneva** but includes participating members at the Universities of Lausanne and Zurich and at the Swiss Institute for Experimental Cancer Research, Lausanne. The program accepts students towards a Ph.D. degree starting October 2003 and provides a strong grounding in molecular genetic, genomic and proteomic approaches to the study of modern biological problems.

We are seeking outstanding candidates with a degree in the Biological or Physical Sciences and a commitment to a career in research. The students selected will receive stipends for four years, subject to completion of all program requirements.

Applicants should send a letter describing their interests, background and research experience, if any, an official transcript of their university curriculum with grades, and contact information of two persons who can supply letters of recommendation to:

Stephane Barges  
 NCCR Executive officer  
 National Center of Competence in Research *Frontiers in Genetics*  
 Quai Ernest-Ansermet 30  
 CH-1211 Geneva, Switzerland

The **application deadline is December 31, 2002** for admission in October 2003. For additional information and application form: **[www.frontiers-in-genetics.org](http://www.frontiers-in-genetics.org)**

## Participating Faculty and Research Interests:

**Stylianios E Antonarakis**, University of Geneva  
 Molecular pathophysiology of Human Gene Disorders including aneuploidies

**Konrad Basler**, University of Zurich  
 Cell communication and signal transduction in embryonic development

**Stuart Clarkson**, University of Geneva  
 DNA repair deficiencies in human genetic disorders

**Denis Duboule**, University of Geneva  
 Mouse developmental and molecular genetics

**Susan Gasser**, University of Geneva  
 Chromatin 3-D organization and nuclear function

**Ernst Hafen**, University of Zurich  
 Cell signaling and growth control in *Drosophila*

**Uli Laemmli**, University of Geneva  
 Chromosome structure and function

**Joachim Lingner**, ISREC Lausanne  
 Telomerase and chromosome end replication

**Vincenzo Pirrotta**, University of Geneva  
 Polycomb complexes and chromatin silencing

**Ueli Schibler**, University of Geneva  
 Molecular analysis of the mammalian circadian timing system

**David Shore**, University of Geneva  
 Chromatin structure and gene regulation; telomere replication and function

**Pierre Spierer**, University of Geneva  
 Epigenetic and genetic control in *Drosophila* development

**Didier Trono**, University of Geneva  
 Gene remodeling by exogenous elements: clues and uses of retroviral gene therapy

**Jean-Dominique Vassalli**, University of Geneva  
 Mammalian embryogenesis: germ line and endocrine pancreas differentiation

**Walter Wahli**, University of Lausanne  
 Genetics of energy homeostasis in mammals



## Jerome H. Holland Laboratory for the Biomedical Sciences American Red Cross

## Head, Department of Biochemistry

Nominations and applications are invited for the position of Head of the Department of Biochemistry. We seek an individual with strong leadership and interpersonal skills, outstanding research experience, and a sustained record of outside funding. While candidates in any area of biochemistry will be considered, preference will be given to those individuals applying analytical protein chemistry and proteomics to their basic research. The new Head will be expected to integrate existing programs in the department, which currently consists of five principal investigators with common interests in protein-protein interactions. Active areas include structure and function of plasma proteins and their receptors, cell adhesion and extracellular matrix proteins, mechanism of action and clearance of coagulation proteins, and mechanism of secretion of cholera toxin. Other departments at the American Red Cross have strong programs in vascular biology, immunology, hematopoiesis, blood cell therapy development, plasma protein therapeutics development, and viral epidemiology. The new Head will have an opportunity to have a faculty appointment at George Washington University through formal membership in the Institute for Biomedical Sciences.

For more about biomedical research programs, visit <http://www.redcross.org/services/biomed/research/departments/>. Interested individuals should send their C.V. to the **Biochemistry Head Search Committee, c/o Debbie Wilder, American Red Cross Holland Laboratory, 15601 Crabbs Branch Way, Rockville, MD 20855. EOE.**



[www.redcross.org/jobs/](http://www.redcross.org/jobs/)

## Six Tenure-Earning Positions in Cell/Development/Conservation Biology

The Department of Biology at the University of Central Florida seeks highly qualified applicants for six tenure-earning positions at either the Assistant or Associate Professor level. Applicants at the Assistant Professor level should have a Ph.D., postdoctoral experience, and outstanding potential to attract external research funding. Applicants at the Associate Professor level should additionally have a strong record of publications and extramural funding. Successful applicants will be expected to contribute to teaching in the undergraduate core curriculum and teach at the graduate level in their specialty to MS and Ph.D. students. Biology graduate faculty currently participate in the Ph.D. in Biomolecular Sciences program and are anticipating the Ph.D. in Conservation Biology program that is expected to begin in January 2004.

**Three positions in Cell Biology, Developmental Biology, or Developmental Genetics** for individuals studying plant or animal model systems in any contemporary area of Cell and Developmental Biology. **One Population Biologist or Conservation Geneticist** conducting research on experimental ecology, plant-animal interactions, population genetics/modeling, or population viability analysis. **One Wetlands/Estuarine Ecologist** studying ecology, coastal fisheries biology, nutrient cycling, wetlands restoration, or ecosystem dynamics. **One Plant Conservation Biologist** conducting research as a field-orientated, terrestrial botanist, working on conservation issues, including invasive species, plant-insect interactions, plant taxonomy, plant ecophysiology, or restoration of upland communities. Applicants with academic interest in the UCF arboretum are encouraged to apply.

All applicants should submit their CV, a three page description of research plans and a statement of teaching philosophy, along with names and addresses of three references. The cover letter should indicate the position and level for which the applicant is applying. Applicant review will begin November 15, 2002 with an anticipated start date of August 2003. Address applications to either: **Dr. Laurie von Kalm, Chair, Cell and Development Biology Search Committee, or Dr. Reed Noss, Chair, Conservation Biology Search Committee, Department of Biology, University of Central Florida, Orlando, FL 32816-2368** (email: [lvonkalm@mail.ucf.edu](mailto:lvonkalm@mail.ucf.edu) or [rnoss@mail.ucf.edu](mailto:rnoss@mail.ucf.edu)).

*The University of Central Florida is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. As an agency of the State of Florida, all application materials and selection procedures are available for public review.*

# www.grantsnet.org


**GrantsNet** is a one-stop resource for biomedical funding information for undergraduates, graduate students, postdocs, faculty and higher education institutions. It's not only a funding database, but also a valuable informational tool for grant-seekers. Each month features news on funding trends, tips on applying for biomedical research, and links to funder's Web sites and applications. And best of all, it's **FREE**.

GrantsNet is a collaboration of the American Association for the Advancement of Science and the Howard Hughes Medical Institute. Check out GrantsNet ([www.grantsnet.org](http://www.grantsnet.org)) today, and let your search start here.



**Science's Next Wave** is a weekly online publication dedicated to career development and job market news for early career scientists. All of the articles, written by experts and role models from the international scientific community, seek to prepare Next Wave readers for today's ever-changing employment market.

Whether you are planning a career in academia or want to explore other options, Next Wave will help guide you in the right direction. Log on today at [www.nextwave.org](http://www.nextwave.org) and find out what many other early career scientists have already discovered.

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## POSITIONS OPEN

### PROFESSOR AND HEAD Department of Biochemistry and Molecular Biology Louisiana State University Health Sciences Center School of Medicine, New Orleans

Louisiana State University Health Sciences Center School of Medicine in downtown New Orleans invites applications and nominations for Professor and Head of the Department of Biochemistry and Molecular Biology.

The School is presently undergoing a period of extraordinary expansion, with unprecedented investments by the state of Louisiana in the development of biomedical sciences and in the collaboration between LSU and Tulane Health Sciences Centers, which are building collaborative research programs, most notably in genetics and cancer. More than \$11 million dollars in new and recurring funding was appropriated this year to build and operate core laboratories and develop collaborative programs in cancer research.

Additional funds have been appropriated to build and operate core laboratories, and a Good Manufacturing Practices (GMP) facility in New Orleans, Louisiana, in support of a collaborative gene therapy program. It is our intent to use these and other resources to become one of the top 10 cancer research centers in the United States within 10 years.

The successful applicant will be internationally recognized for research in molecular biology with an emphasis in cancer and will have a record of exceptional levels of funding from the NCI for his or her own research, for the development of program project grants and training programs, and for translational research.

Candidates should provide curriculum vitae including a full list of publications; past and current research support; and a brief statement of educational, research, service, and administrative interests. These materials should be forwarded electronically to:

Dr. Wayne L. Backes  
LSUHSC School of Medicine  
Stanley S. Scott Cancer Center  
533 Bolivar Street  
New Orleans, LA 70112

E-mail: [molecular-biology-search@lsuhsc.edu](mailto:molecular-biology-search@lsuhsc.edu)  
LSUHSC is an Equal Opportunity/Affirmative Action Employer.

**VERTEBRATE PHYSIOLOGY: ASSISTANT PROFESSOR**, tenure-track position, beginning fall term 2003. We seek a dynamic teacher-scholar with broad training, a strong commitment to undergraduate education, and a research program that emphasizes vertebrate biology. Teaching responsibilities include an upper-level course in vertebrate physiology for biology majors, introductory courses in human anatomy and physiology for nursing students, possibly a course in zoology, and a course in the candidate's area of specialty or one that addresses the social impact of science as part of the College's general education curriculum. A Ph.D. is required as well as a commitment to excellent teaching in a liberal arts and sciences college. Website: <http://www.moravian.edu>. Send curriculum vitae; description of research interests and teaching philosophy; and three letters of recommendation to: Dr. Frank T. Kuserk, Biology Department Chair, Moravian College, 1200 Main Street, Bethlehem, PA 18018-6650 before December 15, 2002. Equal Opportunity Employer.

**ASSISTANT/ASSOCIATE TENURE-TRACK POSITION**. Seeking creative educator experienced in molecular techniques and working in areas of developmental or evolutionary biology. A commitment to teaching at undergraduate and Master's level essential. Start-up funds available. Review cycle begins December 1, 2002, with anticipated start September 2003. Details at website: <http://phoenix.liu.edu/~mdraud/jobdescription.htm>. Please send curriculum vitae, names of at least three references, and any supporting materials to: Dr. Karin Melkonian, Search Committee, Department of Biology, Long Island University, C.W. Post Campus, Brookville, NY 11548-1300. Equal Opportunity Employer.

## POSITIONS OPEN

### DIRECTOR Tahoe Environmental Research Center

The University of California, Davis, invites nominations and applications for an 11-month position as Director (50%), Tahoe Environmental Research Center (TERC), and PROFESSOR (50%). The Director will provide academic and administrative leadership for the TERC and conduct research and teach at both undergraduate and graduate levels in an appropriate academic department at UC Davis. The TERC will be located on the north shore of Lake Tahoe in California, a 2.5-hour drive from the Davis campus. Research at the Center will focus on the physical, chemical, and biological effects of human development on the ecology of freshwater lakes, streams, and watersheds including various aspects of water quality, air quality, forest health, biodiversity, and socioeconomic. The website: [http://johnmuir.ucdavis.edu/terc\\_dir.html](http://johnmuir.ucdavis.edu/terc_dir.html) has additional information and instructions on how to apply. Nominations and applications should be received by January 10, 2003. The University of California, Davis, is an Equal Opportunity/Affirmative Action Employer.

The Department of Molecular Biology at Princeton University invites applications for faculty positions at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level. We are seeking an outstanding candidate with innovative research programs in molecular and cellular biology. The Department has extensive facilities that include high-level computing, confocal and electron microscopy, FACS, DNA array technology, mass spectrometry, oligonucleotide/peptide synthesis, and a transgenic mouse facility. Candidates with an advanced degree (Ph.D. or M.D.) and postdoctoral research experience should send curriculum vitae, a short summary of research interests, and three letters of reference to: Molecular Biology Search Committee, c/o Susan DiRenzo, Department of Molecular Biology, Princeton University, Princeton, NJ 08544. For full consideration, applications should be received by December 15, 2002. For additional information about the Department, visit our website: <http://www.molbio.princeton.edu>.

Princeton University is an Equal Opportunity/Affirmative Action Employer.

### ASSISTANT PROFESSOR Research Track

A junior faculty position on a research track is offered as part of an interdisciplinary team to study protein-protein/RNA-protein interactions and RNA interference in human cells (see website: <http://www.umassmed.edu/bmp/faculty/rana.cfm>). Opportunities for independent and collaborative research would be available. Career growth to the research-track PROFESSOR level will be encouraged. Laboratory space, instrumentation, and excellent facilities are available within a stimulating scientific environment. Candidates with strong cell biology and biochemistry training are preferred. Salary and benefits are highly competitive. Applicants should send curriculum vitae and names and addresses of three references to: Dr. Tariq M. Rana, Department of Biochemistry and Molecular Pharmacology, University of Massachusetts Medical School, 364 Plantation Street, Eighth Floor, Worcester, MA 01605.

### DIRECTOR OF SCIENTIFIC PROGRAMS Ecological Society of America

The Ecological Society of America, a nonprofit scientific membership organization, seeks an experienced Scientist to direct the science program office of the Society. Exciting opportunity to develop innovative approaches to science-policy linkages and to lead a successful program as it plans for the future. Experience in fundraising and program management, Ph.D. in ecology or related science, and five to eight years of experience required. Nonprofit or government agency experience desirable. Competitive salary and benefits. Send cover letter, résumé, salary history, and names of three references to: Science Director Search, ESA, 1707 H Street, N.W., Suite 400, Washington, DC 20006. FAX: 202-833-8775. No telephone calls. Application deadline: November 15, 2002.

## POSITIONS OPEN

### TENURE-TRACK POSITION Magnetic Resonance Imaging/Spectroscopy Cornell University Weill Medical College Department of Radiology

The Weill Medical College is enhancing its basic science programs and part of this initiative is the implementation of a Biomedical Imaging Core facility. The Core will develop and support state-of-the-art imaging. Equipment includes a 3.0 T magnetic resonance imaging and spectroscopy system, whole body PET scanner, and 20 MeV dual-beam cyclotron. A parallel program supporting high-field magnetic resonance spectroscopy is located in the same building. The Core will facilitate the research goals of faculty from a range of disciplines with brain functional imaging and spectroscopy as a major emphasis.

The Department of Radiology is currently seeking to recruit a tenure-track IMAGING SCIENTIST with experience in *in vivo* magnetic resonance spectroscopy. The successful candidate would ideally foster collaborations with Cornell faculty having a common interest in clinical MR spectroscopy/spectroscopic imaging. A familiarity with data acquisition and analysis techniques related to <sup>1</sup>H, <sup>31</sup>P, and <sup>13</sup>C spectroscopy is preferred. In addition, the ability to interact well with patients, members of an interdisciplinary research team, and Core personnel is important. The successful candidate will also have an outstanding record of productivity as well as the capacity to maintain a vigorous research program. Academic rank will be commensurate with accomplishments. Generous start-up support will be provided. Candidates may participate in the Graduate School of Medical Sciences program that includes faculty from the Weill Medical College and the Sloan-Kettering Institute and can also interact with faculty at the Rockefeller University.

Applications should include curriculum vitae, statement of research interests, and three letters of recommendation. Applications should be addressed to: Jack D. Barchas, M.D., Chair, Neuroscience Recruitment Committee (HDS), Box Number 27, Weill Medical College of Cornell University, 1300 York Avenue, New York, NY 10021.

Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.

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

### MICROBIOLOGIST

The University of St. Thomas, Department of Biology, seeks a tenure-track ASSISTANT PROFESSOR in microbiology to begin fall 2003. Ph.D. required and postdoctoral experience is preferred. Teaching duties will include microbiology, introductory cell and molecular biology, and an advanced course in area of specialization. The successful candidate is expected to develop a vigorous, fundable undergraduate research program. Faculty research is supported by ongoing course-release time and start-up funds to establish a research laboratory. Biology Department website: <http://www.stthomas.edu/BIOLOGY>. For complete posting and application information, visit website: <http://www.hr.stthomas.edu>. Affirmative Action/Equal Opportunity Employer.

**Department of Health and Human Services  
National Institutes of Health  
National Institute of Diabetes and Digestive and Kidney Diseases  
POSTDOCTORAL FELLOWSHIPS IN MOLECULAR AND CELL BIOLOGY AT THE NIH**

Postdoctoral Fellowships are available in the Genetics and Biochemistry Branch, NIDDK, NIH. The Branch is similar to a small academic department and has excellent laboratory facilities. The intramural program of the NIH offers an outstanding research environment. The Branch is located on the main intramural campus of the NIH in Bethesda, Maryland, a 20-minute ride from Washington, D.C. Applications are invited from individuals of the highest caliber with Ph.D., M.D., or M.D., Ph.D. degrees. Physicians may participate in either the NIH Interinstitute Endocrine or the NIH Interinstitute Medical Genetics Training Programs. Current research interests of the staff include:

- Membrane protein biogenesis. We are currently using a combination of biochemical and genetic approaches to investigate the targeting, membrane integration, assembly, and trafficking of multi-spanning membrane proteins in model systems such as bacteria and yeast. See *Cell* (1997) 88: 187; *Proc. Nat. Acad. Sci.* (2001) 98: 3471; *EMBO J.* (2001) 20: 6724; and *J. Bacteriol.* (2001) 183: 2187. (Harris Bernstein: harris\_bernstein@nih.gov)
- Biochemistry and molecular biology of homologous recombination in eukaryotes and prokaryotes. Current interests include mouse meiosis (*Mol. Cell* (2000) 6:975), DNA damage and repair (*Genes and Dev.* (2001) 15: 415), the structure of recombination proteins and their reaction intermediates (*J. Mol. Biol.* (2000) 299:629; *J. Mol. Biol.* (2000) 303:709), and novel approaches to gene therapy (including the use of small molecules that promote gene targeting and silencing, such as miniRecAs (*Science* (1996) 272:868)). Approaches used include protein and peptide biochemistry, mouse knock-outs, chromosome immunolocalization, structural biology, gene microarrays, proteomics, and biophysical approaches. (Dan Camerini-Otero)
- Molecular mechanisms of DNA repair and homologous recombination. Current efforts focus on structure-function studies of multi-protein-DNA complexes involved in DNA mismatch repair and homologous recombination in bacteria and eukaryotes [*Nature* (2000) 407:703; *J. Biol. Chem.* (2001) 276:28291; *J. Biol. Chem.* (2001) 276:45505]. (Peggy Hsieh: ph52x@nih.gov)
- The molecular mechanisms facilitating pre-rRNA processing using *Xenopus* oocytes and yeast as model systems. We are identifying CIS-acting elements (conserved structures or sequences) essential for accurate processing of pre-rRNA in yeast (*RNA* (1998) 4:1610; *NAR* (2001) 29:2106). In vivo and in vitro biochemical assays are being used to identify and characterize trans-acting protein factors essential for efficient processing (*MCB* (1997) 17:3702; *JBC* (1999) 274:35914; *RNA* (2001) 7:207-219). Identification of RNA:RNA and RNA:protein interactions facilitating the early steps of pre-rRNA processing will help elucidate the mechanisms regulating ribosome biogenesis in eucaryotes. (Brenda Peculis: bp51h@nih.gov)

Interested candidates should send a letter stating their interests, their curriculum vitae and list of publications, and arrange to have letters from three references sent to one of the investigators above or to Dr. R. Daniel Camerini-Otero (camerini@ncicrf.gov), Chief, Genetics and Biochemistry Branch at: **Genetics and Biochemistry Branch**  
10 Center Drive, MSC 1810  
Building 10, Room 9D-20  
National Institutes of Health  
Bethesda, Maryland 20892

*DHHS and NIH are Equal Opportunity Employers*



**FACULTY POSITION ANNOUNCEMENT  
Sea Grant Associate Director for Extension and Assistant/Associate/Full Specialist in  
Cooperative in Marine and Coastal Policy  
Department of Environmental Science and Policy  
University of California, Davis**

The Department of Environmental Science and Policy (DESP), University of California, Davis, seeks an 11-month appointment for a five-year term, with the possibility of renewal, in Marine and Coastal Environmental Policy for an Assistant/Associate/Full Specialist in Cooperative Extension (CE, 40%) and as Associate Director (Academic Administrator, 60%) for the California Sea Grant Extension Program. The candidate would also be a Specialist in Cooperative Extension in the Department of Environmental Science and Policy of the University of California, Davis and be based at the Bodega Marine Laboratory. Information about DESP, Bodega Marine Laboratory, the Division of Agriculture and Natural Resources (DANR), and California Sea Grant Program can be found at the following websites: [www.des.ucdavis.edu](http://www.des.ucdavis.edu); [www.bml.ucsd.edu](http://www.bml.ucsd.edu); [www.danr.edu](http://www.danr.edu); [www.csge.ucsd.edu](http://www.csge.ucsd.edu). The Associate Director for Extension will be required to work with Marine Advisors and Specialists, DANR Cooperative Extension County Directors, Regional Directors, Program Directors, senior university and agency personnel and serve as a member of the California Sea Grant Management Team. The role of the Specialist in CE will be to develop an applied research and extension education program in the area of marine and coastal policy that addresses the needs of public policy-makers and researchers at the federal, state, and local level, county advisors, and numerous stakeholders.

**Qualifications:** Applicants must have a Ph.D. or equivalent degree in marine/coastal resources or environmental policy/management, or resource economics. Candidates with Ph.D. in marine sciences with demonstrated experience in marine/coastal policy will also be considered. All applicants must have strong research and communication skills. It is desirable for the candidate to have a demonstrated interest and experience in natural resource management and demonstrated experience with cooperative extension on issues relevant to marine and coastal regions. It is desirable for the candidate to have an interest in integrating the diverse campus research resources in environmental and resource sciences with the policy needs of a diverse community of coastal stakeholders. The ideal candidate would have a strong background in both the natural and policy sciences and would be familiar with Sea Grant and current environmental planning processes in California. The candidate should have administrative experience or potential relevant to Sea Grant. Candidates are encouraged to describe previous activities mentoring under-represented groups.

**Applications:** Applicants should submit curriculum vitae, a two-page statement, copies of up to three relevant publications, and the names and addresses of at least three references to:

**Associate Director/CE Specialist Search Committee  
Department of Environmental Science and Policy  
One Shields Ave.  
University of California  
Davis, CA 95616**

The position will remain open until filled, although to ensure full consideration, applications should be received by December 15, 2002.

*The University of California, Davis and the Department of Environmental Science and Policy are committed to the highest professional standards and to achieving diversity among its faculty and staff. The University of California is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### EXPERIMENTAL NANOSCALE/ BIOLOGICAL PHYSICS North Carolina State University Department of Physics

The Department of Physics at NC State University has hired eight new faculty members over the past three years and continues to seek highly qualified applicants in all areas for tenure-track and tenured positions. Candidates in experimental nanoscale science and in biological physics are especially encouraged to apply at this time. Successful applicants will have strong commitments to excellence in teaching and will be expected to establish a vigorous research program. The Department has active and internationally recognized groups in astrophysics; biological physics; computational physics; nanoscale science; polymer, surface, and materials physics; nuclear and particle physics; and physics education research. We plan to hire primarily at the **ASSISTANT PROFESSOR** level but will also consider particularly qualified senior applicants. NC State University is one of the vertices of the Research Triangle, home to many industrial research campuses and federal and state research organizations. Candidates should send curriculum vitae, a brief summary of research and teaching goals, and a list of at least three references to: **Physics Personnel Committee, Chair Jacqueline Krim, Department of Physics, Box 8202, North Carolina State University, Raleigh, NC 27695-8202**. Minimum qualifications include an earned Ph.D. degree in physics or a physics-related area. To receive full consideration, applications for the fall 2003 academic year should be received by November 30, 2002. Review of applications will begin immediately but no final decision will be made prior to November 30, 2002. *NC State University is an Equal Opportunity/Affirmative Action Employer. Americans With Disabilities Act accommodations: Rebecca Savage; Telephone: 919-515-2522.*

### POSITION IN NEUROBIOLOGY McGill University Department of Biology

The Department of Biology at McGill University is recruiting a tenure-track faculty member in neurobiology who will complement a department that has strengths in the molecular genetics of several model systems as well as in neuroethology. The successful applicant will be expected to conduct a vigorous program of independent, externally funded research and to teach at both the undergraduate and graduate levels in a department with an established neurobiology curriculum. Candidates must have a Ph.D. or equivalent degree and postdoctoral experience demonstrating excellence in their field. This position is at the **ASSISTANT PROFESSOR** level; however, exceptional senior candidates will also be considered for recruitment at the Associate or Full Professor level. Applicants should forward curriculum vitae, copies of representative reprints, statement of research interests, statement of teaching interests, and arrange to have three letters of reference sent to the following address: **Neurobiology Search, c/o Louise Sabaz, Department of Biology, McGill University, 1205 Avenue Docteur Penfield, Montreal, Quebec H3A 1B1 Canada**. Application deadline is December 15, 2002. *In accordance with Canadian immigration regulations, this advertisement is directed in the first instance to Canadian citizens and landed immigrants; however, applications from individuals of other nationalities will also be considered.*

### BIOLOGICAL SCIENCES LECTURER The University of Montana

The Division of Biological Sciences, The University of Montana-Missoula, invites applications for a nine-month, continuing appointment Lecturer position to begin August 2003. Responsibilities are teaching or coteaching lecture and laboratory courses in anatomy and physiology (including cadaver prosection) and introductory biology and providing leadership in innovative teaching. For further information and application instructions, potential applicants are referred to the Division's website: <http://biology.dbs.umt.edu/dbs>. Deadline: November 25, 2002. *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN



### DEAN OF THE COLLEGE OF SCIENCES

Responsibilities: Chief academic and administrative officer of the College reporting directly to the Provost and providing visionary and entrepreneurial leadership in teaching, research, and service. For further College information, see website: <http://www.unlv.edu/Colleges/Sciences/>.

Qualifications: Candidates must possess an earned Doctorate in a discipline appropriate to the College and a record of academic and professional achievement meriting appointment at the rank of **PROFESSOR**. Candidates must exhibit a commitment to academic excellence in undergraduate and graduate programs, faculty and student diversity, program development (especially multidisciplinary and interdisciplinary programs), and outreach to the constituencies of the College including the P-12 educational community. The candidate must have a strong record of extramurally funded research, publication, and experience with research programs of national laboratories and federal agencies. Excellent communication and interpersonal skills are essential, and experience in administration at or above the level equivalent to Department Chair is preferred. For additional qualifications, application details, and university information, please see website: <http://www.unlv.edu>.

*University of Nevada Las Vegas is an Affirmative Action/Equal Opportunity Educator and Employer committed to excellence through diversity.*

### TENURE-TRACK MICROBIOLOGIST/ PARASITOLOGIST Earlham College Department of Biology

We seek a Microbiologist or Parasitologist committed to teaching in a liberal arts environment and involving undergraduates in collaborative research. Candidates in the above fields who further strengthen our curriculum in the areas of genetic, plant physiology, immunology, or environmental science are especially encouraged to apply. Ph.D. or M.D.; postdoctoral experience desirable. Teaching duties include involvement in core cell and genetics courses plus specialty courses. Start-up funds available. Biology is the largest major at Earlham (website: <http://www.earlham.edu/~biol/>). The college is nationally ranked for sending students on to Doctoral degrees in life sciences. We have a very active faculty dedicated to teaching excellence and hands-on learning. Opportunities exist for leading off-campus study and participating in interdisciplinary courses. Send letter of application, curriculum vitae, statements of teaching philosophy (including a discussion of courses of interest) and research interests, plus three letters sent from references to: **Search Committee, Department of Biology, Earlham College, Richmond, IN 47374**. Review begins December 1, 2002. *Earlham is an Affirmative Action/Equal Opportunity Employer. Women, underrepresented minorities, and Quakers are strongly encouraged to apply.*

**RESEARCH FACULTY POSITION** available. The Department of Neurology at Columbia University is seeking an **ASSOCIATE RESEARCH SCIENTIST**. Candidates should have a Ph.D. in biological or related sciences and at least three years of postdoctoral experience in molecular and cellular neurobiology as these relate to mechanisms of neuronal degeneration. Preference will be given to individuals with expertise in techniques of primary neuronal cell culture and systems of viral delivery. Training in imaging techniques including confocal microscopy is required. Applicants must have demonstrated ability for independent research. Send curriculum vitae and a letter summarizing background and accomplishments to: **Dr. Robert E. Burke, Department of Neurology, Parkinson's Research Center, Columbia University, 650 West 168th Street, New York, NY 10032**. *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### ASSISTANT DIRECTOR AND RESEARCH FACULTY POSITION Ecology

Ecologist with Ph.D. is sought as Assistant Director to help manage and conduct research at the University of Notre Dame Environmental Research Center (UNDERC). UNDERC is a 7,500-acre tract in the Upper Peninsula of Michigan. This position provides a three-year renewable contract in the Department of Biological Sciences with presence at UNDERC required from May through September. Teaching entails one graduate course on campus and a one-week module in the UNDERC field course, topics to be chosen by individual. Salary and benefits are comparable to teaching faculty and competitive with other major universities and can be supplemented from grants. Housing at UNDERC is provided as well as office and laboratory space at UNDERC and on campus. Equipment funds and access to a technician and UNDERC administrative assistant are provided. Further information can be found at the UNDERC website: <http://www.nd.edu/~underc/underc1.htm>. Applicants should send curriculum vitae and a cover letter including description of research interests and teaching experience by November 15, 2002, to: **Dr. G. Belovsky, Department of Biological Sciences, P.O. Box 369, University of Notre Dame, Notre Dame, IN 46556-0369**. E-mail: [belovsky.1@nd.edu](mailto:belovsky.1@nd.edu). Starting date will be no later than May 15, 2003. *The University of Notre Dame is an Equal Opportunity/Affirmative Action Employer.*

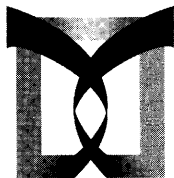
### FACULTY POSITION Pharmacology and Toxicology

The Department of Medical Pharmacology and Toxicology at Texas A&M University System Health Science Center invites applications for a tenure-track faculty position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Outstanding applicants should have an externally funded and established research program and experience in teaching medical or graduate students. Special consideration will be given to individuals who are particularly interested in toxicology, although applications from all areas in pharmacology will be considered. Information about the Department can be found at website: <http://medicine.tamu.edu/pharm/>. Excellent laboratory space and attractive start-up benefit packages are offered. Deadline to ensure consideration is November 15, 2002. Submit a letter of application; curriculum vitae; statement of research interests; and the names, addresses, telephone/FAX numbers of three references to: **Dr. J. P. Trzeciakowski, Chair, Search Committee, Department of Medical Pharmacology and Toxicology, Texas A&M University System Health Science Center, College Station, TX 77843-1114**. *The TAMU System is an Equal Opportunity Employer.*

### FACULTY POSITION Ecology and Evolution Program

Applications are invited for a tenure-track faculty position in population, community, or ecosystem ecology in the Department of Biological Sciences, a federated department of Rutgers University-Newark and the New Jersey Institute of Technology. Our research-oriented department is expanding its ecology and evolution group and is particularly interested in people with strong quantitative and conceptual skills. The successful candidate is expected to develop and maintain an active, externally funded research program and to teach at both the graduate and undergraduate levels. Applications will be reviewed beginning November 1, 2002, and will be accepted until the position is filled. Curriculum vitae, statements of research and teaching interests, and three letters of recommendation should be sent to: **Dr. Edward M. Bonder, Chairman, Department of Biological Sciences, Rutgers University, 101 Warren Street, University Heights, Newark, NJ 07102**. E-mail: [ebonder@andromeda.rutgers.edu](mailto:ebonder@andromeda.rutgers.edu); website: <http://biology-newark.rutgers.edu/>. *Rutgers University and NJIT are Affirmative Action/Equal Opportunity Employers.*





## FACULTY POSITIONS in

### Cancer Immunology, Vascular Biology, Cancer Cell Biology And Cancer Cell Genomics

The Sidney Kimmel Cancer Center, located in San Diego, CA, is in the center of the largest concentration of biotechnology companies and cancer research institutes in the United States. The center has focused on directions of discovery that relate to new directions in cancer treatment. Two new research buildings are under construction, and recruitments for new faculty at all levels are under way.

Candidates should send their curriculum vitae and a list of three references to:

**Albert B. Deisseroth, M.D., Ph.D., President & CEO or  
Jan Schnitzer, M.D., Scientific Director**  
10835 Altman Row  
San Diego, CA 92121

AA/EOE



### ASSISTANT PROFESSOR GAMETE BIOLOGIST

The University of Massachusetts is located in a college town in Western Massachusetts within 3 hours drive of New York and 2 hours drive of Boston. The region also houses Amherst, Smith, Hampshire and Mount Holyoke Colleges and is recognized nationally as both a center of higher education and a scenic treasure offering extensive opportunities for summer and winter recreation.

The Department of Veterinary and Animal Sciences at UMass-Amherst invites applications for a Tenure-Track faculty position at the Assistant Professor Level. Applicants require a Ph.D. and appropriate post-doctoral training, a Ph.D./D.V.M., or Ph.D./M.D. and are expected to have developed an independent, fundable, research program in the area of germ cell maturation and ageing in the male and female reproductive tracts, or early embryo development. The candidate will be expected to teach in our undergraduate and graduate programs in reproduction and development and to interact closely with Dr. R. Fissore and Dr. P. Visconti and other faculty to develop a center of excellence in reproductive biology.

Applicants should send a letter of intent, statement of research interests, current curriculum vita and the names and contact information of three references to: **Dr. Samuel J. Black, Department of Veterinary and Animal Sciences, 314 Paige Lab, University of Massachusetts, Amherst, MA 01003.**

Review of applications will begin November 1, 2002 and continue until the position is filled.

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

RENOVIS is a biopharmaceutical company focusing on neurological diseases and disorders, including CNS injury, neuropathic pain, and obesity/diabetes. We use a combination of novel genomics and cell-based assay technologies coupled with expertise in neurobiology to discover validated targets and develop small molecule and protein therapeutics.

### HEAD OF PHARMACOLOGY

We seek a hands-on *in vivo* pharmacologist to focus on the evaluation of new drug candidates in neurological and inflammatory disease models. Use your strong management skills as you lead a team of laboratory technicians, research associates and PhD-level scientists. The ideal candidate should have a PhD/MD in a relevant biological discipline and 5-10 years industrial experience in preclinical pharmacology studies supporting discovery/development programs. Demonstrated expertise in the design and statistical analysis of preclinical testing of compounds in animal disease models and extensive experience with surgical techniques and drug administration methods are needed. Relevant experience in disease areas (CNS injury, pain, neuroinflammation), knowledge of resource and budget planning, and strong management skills are key. Experience managing outsourced studies, including toxicology studies, is desirable. Excellent interpersonal skills are required. Job Code HP-SCI

### SCIENTIST CNS INJURY AND REGENERATION

Working with a team of scientists and research associates, you'll provide scientific and technical leadership for our Injury and Regeneration Program. You'll evaluate small molecules and biotherapeutics using *in vitro* and *in vivo* models of neuronal regeneration and neuroinflammation, with a focus on spinal cord injury. Requires a PhD in Biological Sciences and 2-5 years postdoctoral experience in a neuroscience-related field with a proven track record in traumatic injury and regeneration models of the nervous system. Experience with preclinical *in vivo* studies and a background in neuroinflammation are desirable. Biotech or pharmaceutical industry experience a plus. Experience in supervising technical personnel and managing team members in a project-driven environment is a must. Job Code SIR-SCI

For more information on these positions and others, please visit our website. In addition to a competitive salary and excellent benefits, we offer equity participation. Please email your resume, cover letter and salary history, indicating Job Code, to [recruiting@renovis.com](mailto:recruiting@renovis.com), or mail to Renovis, Inc., Attn: Human Resources, 270 Littlefield Avenue, South San Francisco, CA 94080. EOE

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

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### RESEARCH ASSOCIATE PROFESSOR Marine Mammal Health Medical University of South Carolina

Opportunity available for Research Associate Professor to provide scientific direction and technical oversight in multidisciplinary research program to determine environmental perturbations on marine mammal health. Research will be conducted at the NOAA National Ocean Service Laboratory, Charleston, South Carolina, with Scientists initiating a long-term project involving health and risk assessment of bottlenose dolphin populations via assessing stressors and using an integrated approach with multiple measures of health. Qualifications/experience: Ph.D. degree in wildlife biology, marine mammal biology, epidemiology, population biology, toxicology, veterinary medicine, immunology biochemistry, cellular/molecular biology or other relevant discipline and minimum of five years of experience in marine mammal research. Salary: starting \$54,000 with full benefits. Forward résumé (no FAX or e-mail) and three references to: **Director of Marine Biomedical and Environmental Sciences Center, 221 Fort Johnson Road, Charleston, SC 29412.** Applications will be accepted through November 29, 2002. *The Medical University of South Carolina is an Affirmative Action/Equal Opportunity Employer.*

### TENURE-TRACK FACULTY POSITION

The Boston College Biology Department invites applicants to fill a tenure-track position at the level of **ASSISTANT PROFESSOR** or at a more senior level. We are particularly interested in candidates working in vector and insect science (who will contribute to the development of a research initiative in this area) or in cell cycle (who would help expand and consolidate an existing faculty strength). We expect the appointee to establish an externally funded, independent research program and to contribute to graduate and undergraduate training. Information on our department and its faculty is available at website: <http://www.bc.edu/schools/cas/biology/>. Send curriculum vitae, brief descriptions of research plans and teaching interests, representative publications, and confidential recommendation letters from three or more individuals to: **Dr. Marc Muskavitch, Chair, Molecular Biology and Genetics Search Committee, Biology Department, Boston College, 140 Commonwealth Avenue, Chestnut Hill, MA 02467.** Review of applications begins December 10, 2002, and will continue until the position is filled. *Boston College is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT PROFESSOR Fordham University

A tenure-track position is available for fall 2003 in the Department of Natural Sciences. Teaching responsibilities include undergraduate major courses in genetics and molecular biology and life science courses for nonscience majors. The successful candidate is expected to develop an active research program in his/her scientific discipline that will involve upper-level undergraduates. Teaching experience is essential; postdoctoral experience is desirable. The Department is seeking a candidate who is interested in developing teaching/learning strategies in the sciences. See website: [http://www.fordham.edu/general/undergraduate/Natural\\_Science8081.html](http://www.fordham.edu/general/undergraduate/Natural_Science8081.html). Send curriculum vitae, statement of teaching and research interests, and three letters of reference to: **Dr. Grace Vernon, Chairperson, Department of Natural Sciences, Fordham College at Lincoln Center, 113 West 60th Street, New York, NY 10023.** E-mail: [vernon@fordham.edu](mailto:vernon@fordham.edu). Deadline: November 29, 2002. *Affirmative Action/Equal Opportunity Employer. Fordham is an independent, Catholic university in the Jesuit tradition that welcomes applications from men and women of all backgrounds.*

### UNIVERSITY OF NEBRASKA-LINCOLN Department of Biochemistry

The newly created Redox Biology Center at Nebraska, funded as a Center of Biomedical Research Excellence by the National Institutes of Health, invites applications for a tenure-track **ASSISTANT PROFESSOR** position. The Center is a focus group for research in redox biology involving Investigators at the University of Nebraska-Lincoln and the Eppley Cancer Research Center, Omaha. Areas such as metalloenzymology, selenium biochemistry, redox modifications and repair of proteins, molecular mechanisms of carcinogenesis, and redox homeostasis are active areas of investigation. Five new hires are planned to further enhance the area of redox biology at Nebraska. The first two recruitments will be in the Biochemistry Department at UNL in the general area of redox biochemistry relevant to biomedical research viz. aging and signaling. The successful applicant will be expected to develop an active, independent research program and teach one course per year at the undergraduate or graduate level. The position offers a 12-month, state-funded appointment and generous start-up package. The Biochemistry Department is housed in the new, state-of-the-art George W. Beadle Center for Genetics and Biomaterials Research. Ph.D. degree and postdoctoral experience are required. Send curriculum vitae; a succinct statement of research interests; and arrange to have three letters of reference sent by December 1, 2002 (or until a suitable candidate is found thereafter), to: **Dr. Ruma Banerjee, Department of Biochemistry, University of Nebraska, Lincoln, NE 68588-0664.** FAX: 402-472-7842; e-mail: [redox2@unl.edu](mailto:redox2@unl.edu). *The University of Nebraska is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity and is responsive to the needs of dual-career couples. We assure reasonable accommodation under the Americans With Disabilities Act. Contact: Dr. Banerjee; Telephone: 402-472-2941 for assistance.*

**BIOLOGIST:** Hillsdale College, a selective and independent liberal arts college, is seeking a broadly trained Molecular Ecologist with a background in conservation or an Ethologist who can work at the cellular/molecular level. The successful candidate for this tenure-track faculty position at the **ASSISTANT PROFESSOR** rank must demonstrate effective design and teaching of undergraduate classes and an ability to supervise undergraduate research. Ph.D. expected. Located in south central Michigan, Hillsdale College owns the Slayton Arboretum, the Hillsdale College Biological Station, and is a partner institution in the South African Centre for Conservation and Research. Starting date is August 2003. For a detailed job description, see website: <http://www.hillsdale.edu/academics/bio/>. Send cover letter, curriculum vitae, three letters of recommendation, transcripts, a statement of educational philosophy/methods, and a statement of research interests to: **Dr. Robert Miller, Biology Department Chairman, Hillsdale College, 33 East College Street, Hillsdale, MI 49242.** E-mail: [bob.miller@hillsdale.edu](mailto:bob.miller@hillsdale.edu); Telephone: 517-607-2393. Closing date on/before December 16, 2002. *Hillsdale College is an Equal Opportunity Employer.*

### FACULTY POSITION Department of Biochemistry Stanford University School of Medicine

Applications or nominations are invited for a faculty position in the Department of Biochemistry at the level of **ASSISTANT PROFESSOR**.

Applicants should have an established record of excellence in original research and teaching. Candidates should submit curriculum vitae including a list of publications; a description of their research interests; and names, addresses, and telephone numbers of three references to: **Search Committee Chairman, Department of Biochemistry, Beckman Center, Stanford University School of Medicine, Stanford, CA 94305-5307.**

*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 PROFESSORS Biological Sciences Trumbull-Warren, Ohio

Kent State University invites applicants for this full-time, tenure-track position beginning August 2003 to teach anatomy, physiology, and genetics to nursing students and possibly introductory biology courses to majors and nonmajors. A strong interest in undergraduate teaching is essential. A tenure-track appointment carries the expectation of teaching excellence, discipline-based research, and professional development. Qualifications: Ph.D. with evidence of scholarship and teaching experience is required. Specialty for this position is physiology with some background in genetics. Application deadlines: Review of applicants will begin January 15, 2003, and will continue until the position is filled. To apply, please submit letter of application referring to the position title and number, curriculum vitae, transcripts, and three letters of reference to: **Mr. Robert Sines, Assistant Dean, Kent State University, Trumbull Campus, 4314 Mahoning Avenue, Warren, OH 44483.** Website: <http://www.trumbull.kent.edu/>. *Equal Opportunity/Affirmative Action Employer.*

### TWO POSITIONS Zebrafish Development and Environmental Health

The University of Wisconsin-Milwaukee's Institute of Environmental Health and NIH/NIEHS Marine and Freshwater Biomedical Sciences Center of Excellence invite applications from outstanding Scientists to fill two positions in the University's Zebrafish Initiative, one open rank and one **ASSISTANT PROFESSOR**. Tenure homes may be the Department of Chemistry or Department of Biological Sciences. A consortium of Scientists at UW-Milwaukee, the Medical College of Wisconsin, and University of Wisconsin-Madison are assembling a frontier group of zebrafish Researchers in the area of environmental health and toxicology. The objective is to discover the underlying mechanisms of toxicity of chemicals that affect embryonic development and contribute to the onset of chronic disease. The new faculty can interact with exceptionally strong groups in metal toxicology, signal transduction/endocrine disruption, and genomics and bioinformatics. First-rate space and support for zebrafish care and experimentation are located at the UW-Milwaukee WATER Institute. Additional information is found at website: <http://www.uwm.edu/Dept/MFB/>. Candidates should send their curriculum vitae, research plans, a statement about teaching interests, and three reference letters to: **David Petering, Department of Chemistry, P.O.B. 413, University of Wisconsin-Milwaukee, Milwaukee, WI 53201-0413.** Applications will be reviewed beginning November 18, 2002, and will be accepted until the positions are filled. *UWM is an Equal Opportunity/Affirmative Action Employer.*

### BIOCHEMIST AND ORGANIC CHEMIST/DEPARTMENT CHAIR

Sonoma State University: Applications are invited for two tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR** positions in chemistry to begin August 2003. One position will involve teaching biochemistry and general chemistry lectures and laboratories. The other will involve teaching organic and general chemistry lectures and laboratories. The organic position may also fill the position of the Chair of a department rebuilding due to retirements. Candidates should also be prepared to establish a research program and to seek funding to support research involving undergraduate students. For more information and application requirements, see website: <http://www.sonoma.edu/facaffairs/>; e-mail: [jan.white@sonoma.edu](mailto:jan.white@sonoma.edu). *Affirmative Action/Equal Opportunity Employer.*

## University of Pennsylvania

### Postdoctoral Positions in Cancer Biology

Postdoctoral positions are available for highly motivated individuals interested in cancer cell biology (**Craig B. Thompson, M. Celeste Simon, J. Alan Diehl, and Michael F. Olson**).

The Abramson Family Cancer Research Institute has a highly interactive research environment and state-of-the-art facilities including core laboratories for transgenic/knock-out technology, microarray analysis of gene expression, nucleic acid and protein sequencing, confocal microscopy and imaging, and flow cytometry. Excellent stipends and benefits packages including funds for professional travel are available.

Interested candidates should send curriculum vitae & names and addresses of 3 references to:

**M. C. Simon Ph.D., Associate Investigator  
AFCRI & Howard Hughes Medical Institute  
celeste2@mail.med.upenn.edu**

and

**J. A. Diehl, Ph.D. Assistant Investigator  
AFCRI, adiehl@mail.med.upenn.edu**

**University of Pennsylvania  
School of Medicine  
456 BRB II/III, 421 Curie Blvd.  
Philadelphia, PA 19104-6160**



**UNIVERSITY OF  
PENNSYLVANIA  
HEALTH SYSTEM**

[www.uphs.upenn.edu/abramson](http://www.uphs.upenn.edu/abramson)

Affirmative Action / Equal Opportunity Employer



## DEAN OF THE SCHOOL OF LIFE SCIENCES FUDAN UNIVERSITY, SHANGHAI, CHINA

The School of Life Sciences of Fudan University, one of China's premier institutions of higher learning, is inviting applications from qualified scholars and administrators for the position of Dean. The School of Life Sciences was established in 1986 as the first in China, and since then has been devoted to superlative teaching and research in Genetics, Developmental biology, Microbiology, Neurobiology, Ecology and Biochemistry.

**The successful candidate will have:** demonstrated experience and success leading a major department or large laboratory, headed projects of national and/or international significance, a publication record in preeminent international journals from the last three years, pioneered research in an area of specialization, assumed important positions in international academic organizations, and fluency in English or Chinese.

**Salary and Term:** The appointment will be made on a three-year fixed-term basis. The successful candidate may work full-time or part-time with no less than six months per annum. The annual salary is 1,000,000 yuan RMB.

**Applicants should forward:** curriculum vitae; letter of interest addressing vision, objectives, goals and qualifications; papers published in the past three years; addresses, telephone numbers, and e-mail addresses of three to five scholars for reference and consultation; copies of advanced degrees; certification of present employ.

**Deadline of Application:** November 30, 2002

**Please direct applications and/or inquiries to:**

Ms. Zhang Jin  
Talent Recruitment Office, Fudan University  
E-mail: [yj@fudan.ac.cn](mailto:yj@fudan.ac.cn) Fax: 86-21-65652875

Ms. Jiang Lei  
School of Life Sciences, Fudan University  
E-mail: [lifesciences@fudan.edu.cn](mailto:lifesciences@fudan.edu.cn) Fax: 86-21-65346979

**For more information, please visit our website: [www.tr.fudan.sh.cn](http://www.tr.fudan.sh.cn)**



**ASPET**

AMERICAN SOCIETY FOR PHARMACOLOGY  
AND EXPERIMENTAL THERAPEUTICS

### NEW FUNDING OPPORTUNITY

#### ASPET-Merck Postdoctoral Fellowships in Integrative Pharmacology

The ASPET-Merck Postdoctoral Fellowships in Integrative Pharmacology support post-doctoral training of scientists (M.D., Ph.D., or related degree) with demonstrated interest in *in-vivo* pharmacology.

The major goal is to increase the number of well-trained scientists with expertise in pharmacology and in systems and integrative biology. The majority of the Fellowship will be spent in the laboratory of the academic supervisor/mentor with no less than six months spent in the laboratories of the award sponsors, Merck Research Laboratories. Fellowships are for early post-doctoral training and applicants with significant post-doctoral training at the time of application will not be considered. The academic institution must be in the United States.

Three awards will be made in 2003. One award will be made to support training in each of the designated areas of scientific research:

- Imaging
- Behavioral Pharmacology or Neuropharmacology
- Metabolic Disorders (emphasis on obesity, diabetes, or atherosclerosis)

The fellowship term is 3 years, subject to annual performance review, and provides the following per annum funding:

- \$42,000 stipend
- \$3,000 travel expenses
- \$10,000 institutional allowance

During tenure at the Merck laboratory, additional support up to \$10,000 per fellow will be available to offset expenses related to the temporary relocation.

Application deadline is January 17, 2003. Recipients will be notified mid-March. Fellowships must begin in 2003. For application forms and more information on eligibility, review procedure and awards, visit the American Society for Pharmacology and Experimental Therapeutics web site at **WWW.ASPET.ORG**. Applications are open to qualified members of any professional society but recipients of awards must be or become members of ASPET.

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

The National Heart, Lung, and Blood Institute is recruiting for a **Staff Scientist** within the Laboratory of Cell Signaling to join a group of investigators whose research focus is on the role of phosphoinositide-specific phospholipase C in receptor signaling.

The successful individual will be a Ph.D or MD scientist with at least five years postdoctoral research experience. Research experience should be in biochemical and molecular biological techniques including enzyme purification, assay, protein phosphorylation, cloning, expression and site-specific mutation.

Salary is commensurate with research experience and accomplishments, and a full package of benefits (including retirement, health, life and long term care insurance, Thrift Savings Plan participation, etc.) is available.

Please include vacancy identifier, **HL-02-0114** on ALL correspondence. Applications must be received no later than **November 12, 2002**.

Applicants should submit a CV, a brief statement of research interests, and the name of three references to:

**Don Ouellette**  
National Heart, Lung, and Blood Institute  
National Institutes of Health  
Building 31, Room 5A-28  
Bethesda, MD 20892-2484  
Phone: 301-496-6477  
Fax: 301-480-0418

**DHHS and NIH are Equal Opportunity Employers**





## CHAIR

Department of Biochemistry  
The University of Texas Health Science Center  
at San Antonio

The Search Committee for the Chair of Biochemistry at the University of Texas Health Science Center at San Antonio (UTHSCSA) invites applications and nominations for this position. We seek candidates with outstanding records of scientific accomplishment, grant support, and mentoring consistent with a tenured appointment at the level of **FULL PROFESSOR**. Strong leadership, communication, and interpersonal skills are required. Applicants with research interests in any area of contemporary biochemistry or biophysics will be considered. The Department currently consists of 19 full-time faculty, nine cross-appointed faculty, 36 Doctoral students, and 28 Post-doctoral Associates. Major recent infrastructural investments have been in the area of macromolecular structure and dynamics. The Department of biochemistry is one of seven basic science departments that comprise the Graduate School of Biomedical Sciences, one of five component schools of the UTHSCSA. Applications should include curriculum vitae, a statement of research interests and academic vision, and a list of four references. The Committee will begin reviewing applications by December 2, 2002, and the search will continue until the position is filled. Send materials to e-mail: [smithj@uthscsa.edu](mailto:smithj@uthscsa.edu) or by mail to: Chair, Search Committee for Biochemistry Chair, Graduate Dean's Office, MC 7819, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78229-3900. The University of Texas Health Science Center at San Antonio is an Equal Employment Opportunity/Affirmative Action Employer.

## POPULATION GENETICIST

Tenure-track **ASSISTANT PROFESSOR**: Ph.D. in biology, genetics, or an appropriate subdiscipline in biology completed by July 31, 2003. Graduate coursework in genetics and research experience in population genetics required. Preference given to applicants with graduate coursework/experience in evolutionary biology. A strong commitment to college training, prior teaching at the college level, and experience working with diverse groups desired. Duties: teaching undergraduate and graduate courses in genetics, developing courses in population genetics and evolutionary biology, teaching introductory biology courses, engaging in scholarly activities, advising, supervising undergraduate and Master's research, serving on Department and University committees, and engaging in community service. Duties may also include participation in Department and University programs designed to recruit and retain students in science. Submit curriculum vitae, all transcripts, names and telephone numbers of three references, and statements of teaching and scholarly interests. Applicants must also have three letters of recommendation sent to: Mary Ann Reihman, Chair, Biological Sciences, California State University, Sacramento, CA 95819-6077. Website: <http://www.csus.edu/bios/>. To ensure consideration, applications should be received by December 16, 2002; position open until filled. *Affirmative Action/Equal Employment Opportunity.*

THE DEPARTMENT OF ZOOLOGY  
TEL-AVIV UNIVERSITY

Offering a **TENURE-TRACK POSITION** in ecology, evolutionary zoology, or behavior. Postdoctoral Scientists with strong teaching (preferably in Hebrew) and research credentials should submit curriculum vitae, list of publications, and request three letters of reference to be sent to: Chairman, Department of Zoology, Tel-Aviv University, Ramat Aviv 69978, Israel preferably no later than December 31, 2002 (for queries, e-mail: [naomip@tauex.tau.ac.il](mailto:naomip@tauex.tau.ac.il)).

## TENURE-TRACK POSITIONS

Cornell University  
Weill Medical College

As part of a significant enhancement of its basic science programs and laboratory facilities, Weill Medical College of Cornell University is undertaking a major program initiative in the area of neuroscience, and the Department of Neurological Surgery is seeking to recruit tenure-track faculty. We are especially interested in candidates with research interests related to neuronal plasticity including the differentiation and migration of both new neurons and oligodendrocytes. Stem cell approaches will be strongly considered. Exceptional candidates in other related/appropriate fields will also be considered. Candidates for junior positions should demonstrate the potential for establishing a vigorous, independent research program; candidates for senior positions should have an outstanding record of productivity. Candidates may have Ph.D., M.D., or M.D.-Ph.D. degrees. Primary appointment of tenure-track faculty as part of this initiative will be in the Department of Neurological Surgery. Recruited faculty will receive generous start-up support. Candidates may participate in the Graduate School of Medical Sciences program, which includes faculty from the Weill Medical College and the Sloan-Kettering Institute, and in the Tri-Institutional M.D./Ph.D. program, which also includes faculty from The Rockefeller University. Applications should include curriculum vitae, statement of research interests, and three letters of recommendation. Applications should be sent to: Jack D. Barchas, M.D., Neuroscience Recruitment Committee (PS), Box Number 27, Weill Medical College of Cornell University, 1300 York Avenue, New York, NY 10021.

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

FACULTY POSITION  
Molecular Cell Biology

The Federated Department of Biological Sciences of Rutgers University-Newark and the New Jersey Institute of Technology invite applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level. Applicants must have a Ph.D., postdoctoral training, track record of research accomplishment, and show potential for developing an independently funded research program. We are particularly interested in outstanding candidates utilizing modern molecular cell biological approaches to study interesting dynamic changes in cell activity in any research area including but not limited to cell biology, developmental biology, immunology, and neurobiology. Successful applicants will have the opportunity to participate in the newly forming Center for Cellular Biodynamics.

Applications will be reviewed beginning November 1, 2002, and will be accepted until the position is filled. Curriculum vitae, statements of research and teaching interests, and three letters of recommendation should be sent to: Dr. Edward M. Bonder, Chairman, Department of Biological Sciences, Rutgers University, 101 Warren Street, University Heights, Newark, NJ 07102. E-mail: [ebonder@andromeda.rutgers.edu](mailto:ebonder@andromeda.rutgers.edu); website: <http://biology-newark.rutgers.edu/>. Rutgers University and NJIT are Affirmative Action/Equal Opportunity Employers.

The Department of Renewable Resources at the University of Wyoming invites applications for a 12-month, tenure-track **ASSISTANT PROFESSOR** of Entomology starting spring 2003 to conduct extension (66%) and research (34%) on management of insect pests of predominant ecosystems (rangeland, forest, livestock/medical, urban landscapes). Submit statement of interest, curriculum vitae, transcripts, and three letters of reference to: J. Marsh, Search Coordinator, Renewable Resources, University of Wyoming, Laramie, WY 82071. E-mail: [windsong@uwyo.edu](mailto:windsong@uwyo.edu). For more information, contact: Jeff Lockwood, Search Chair; e-mail: [lockwood@uwyo.edu](mailto:lockwood@uwyo.edu) or see website: <http://uwyo.edu/renewableresources>. Screening will begin 1 December 2002.



**ISIS**<sup>TM</sup>  
PHARMACEUTICALS

BIOSTATISTICIAN  
Biotechnology

Seeking a talented individual to work closely with a multidisciplinary team. Responsible for using both high- and low-density DNA arrays in combination with antisense technology for the analysis of gene function. Candidate will utilize statistical methods to analyze gene expression data, provide leadership and guidance on the statistical analysis of complex data sets generated by additional multiple high-throughput experimental assays, conduct statistical analysis and mining of DNA microarray data in conjunction with antisense technology for the analysis of gene function, conduct statistical analysis of complex data sets generated by multiple high-throughput assays and animal model experiments, and improve high-throughput screening processes by developing a statistical model of gene selection. Requires Ph.D. in (bio)statistics, mathematics, physical sciences, engineering, or a related field; one year of experience in the job offered; or one year of experience as a **POSTDOCTORAL/GRADUATE RESEARCHER**. Must have prior work or academic experience to include analysis and interpretation of DNA array data, statistical software packages, and mathematical modeling. Reference code: 925-PL.

The only thing more powerful than our technology are the minds behind it. At Isis, our unique culture thrives on challenge, innovation, and discovery. We are inventors and with each advancement, we are a step closer to saving lives. At work and at play, we're always riding the edge of discovery. Ready to dive in?

Visit our website: <http://www.isispharm.com>; e-mail: [resume@isisph.com](mailto:resume@isisph.com). You may also send résumés indicating Reference Code to: Isis Pharmaceuticals, 2292 Faraday Avenue, Carlsbad, CA 92008. FAX: 760-603-2700; website: <http://www.isispharm.com>. No calls, please. *Equal Opportunity Employer.*

## UNIVERSITY OF CHICAGO

The Department of Ecology and Evolution is seeking to fill a **FACULTY POSITION** at open rank with an individual using genomic techniques to address questions in the ecology, evolution, or behavior of prokaryotes or eukaryotes. Information about the Department and the closely affiliated Committees on Evolutionary Biology and on Genetics can be found at websites: <http://pondside.uchicago.edu/>; <http://ecol-evol.uchicago.edu/>; <http://www.bsd.uchicago.edu/committees.html#genetics>. Send curriculum vitae, selected reprints and preprints, statements of research and teaching interests, and three letters of reference to: Search Committee, Department of Ecology and Evolution, University of Chicago, 1101 East 57th Street, Chicago, IL 60637. Applications will be accepted until the position is filled but applications should be received before December 5, 2002, to ensure full consideration. *The University of Chicago is an Equal Opportunity/Affirmative Action Employer.*

**BIOLOGICAL CONTROL**: Montana State University invites applications for full-time, tenure-track, nine-month faculty position (80% research, 20% teaching) at **ASSISTANT/ASSOCIATE PROFESSOR** rank. Research emphasis will be on biological control of weeds using insects, leading to sustainable weed management solutions in Montana using modern techniques. Ph.D. in entomology or related field. For full position announcement and application procedure, visit website: <http://www.montana.edu/level2/jobs.html>. Contact: Dr. R. Peterson, Department of Entomology, P.O. Box 173020, Montana State University, Bozeman, MT 59717 with any inquiries. Deadline: January 1, 2003, or until suitable candidate found. *Americans With Disabilities Act/Affirmative Action/Equal Opportunity/Veterans Preference.*

## ENDOWED PROFESSORSHIP IN GENE THERAPY

### Center for Gene Therapy

#### Tulane University Health Sciences Center

The Tulane Center for Gene Therapy is seeking candidates for an endowed professorship. The Center, with laboratories at both the Tulane University School of Medicine and the Tulane National Primate Research Center, has a faculty of seven and a support staff of sixty. The Tulane Center for Gene Therapy is supported in part by funds from N.I.H., the University, HCA/the Healthcare Company and the Louisiana Gene Therapy Research Consortium.

Applicants should be qualified for appointment at the professorial level and have external funding in research for gene therapy. In addition to an endowment that can be used either for salary or research support, the position offers competitive start-up funds, independent laboratory space, access to graduate students and use of the ten Core Laboratories established by the Tulane Center for Gene Therapy.

Applicants should send curriculum vitae, statement of research interests, and the names of three references to: **Dr. Darwin J. Prockop, Center for Gene Therapy, Tulane University Health Sciences Center, 1430 Tulane Avenue, SL-99, New Orleans, LA, 70112. Fax: (504) 988-7710.**



**The Center for Observations, Modeling and Prediction at Scripps (COMPAS)** seeks to fill a Research Scientist position in the field of large-scale ocean modeling. We encourage applications from all levels of experience, but candidates with exceptional track-records of expertise and leadership in numerical modeling are preferred. Examples of possible fields of interest include air-sea interaction, non-linear dynamics, understanding of mixing, bottom boundary layers and the effect of parameterizations of all those processes on the general circulation. Requirements are a Ph.D. or equivalent and the ability to conduct independent research. The successful candidate will be expected to expand existing COMPAS modeling activity through extramurally funded research programs. For the first three years of the appointment, the institution will provide 50% of the salary for this position. Support in the subsequent years will be according to SIO regulations. The research appointments parallel University of California faculty appointments, but are without formal teaching requirements. In this career track position, SIO will provide base salary support of 25% for the Associate Research rank and 50% upon promotion to Full Research as a supplement to extramural support obtained by the candidate, subject to the availability of institutional funds. Rank and salary is commensurate with experience and based on the University of California salary scales. Closing date is January 31, 2003, or until filled.

Interested candidates should send a cover letter, curriculum vitae, a list of five (5) references, immigration status and a brief statement of research interest to: **Prof. Detlef Stammer, Scripps Institution of Oceanography - Mail Code 0230, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0230 (dstammer@ucsd.edu)**

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

## COMPUTATIONAL BIOCHEMISTRY/BIOPHYSICS Michigan State University

The **Departments of Biochemistry and Molecular Biology, Chemistry, and Physics and Astronomy** seek applications or nominations for a tenure track position at the Assistant Professor level. Applicants should have postdoctoral or equivalent experience that demonstrates outstanding productivity and potential for independent research in computational biochemistry/biophysics as it applies to understanding biomolecular structure and function through state-of-the-art methods. Relevant search areas include, but are not limited to, interpreting the functions of sequences in the genome and proteome, studying networks of interactions between proteins in the cell, developing methods for protein folding, structure prediction, molecular dynamics, and designing new molecules and catalytic systems.

This position will be held jointly in one or more of the three departments, based on the candidate's areas of expertise, while maintaining teaching and other departmental commitments at the level typical for a single department. The three departments have large, research-intensive faculties and vigorous undergraduate, graduate, and postdoctoral training programs, and are located in physically connected buildings. The Department of Biochemistry and Molecular Biology (<http://www.bch.msu.edu>) conducts research in many aspects of contemporary biochemistry and molecular biology, with emphases in structural biology, biochemistry of the cell nucleus, and plant biochemistry. The Department of Physics and Astronomy (<http://www.pa.msu.edu>) has focus areas in astronomy and astrophysics, condensed matter physics, high energy physics, nuclear physics, and biophysics; furthermore, it is the home department of the National Superconducting Cyclotron Laboratory. The Chemistry Department (<http://www.cem.msu.edu>) has faculty groups that bridge the traditional areas of the discipline. The strong growth of structural and computational biology and biophysics in these departments and throughout campus provides outstanding opportunities for collaborative research.

These departments are active in developing the Michigan Life Sciences Corridor, with its ongoing support of new infrastructure and research in Structural Biology, Bioinformatics, Proteomics, and Genomics (<http://www.ctaalliance.org>). Our faculty are also centrally involved in the MSU Center for Biological Modeling (<http://biomodel.msu.edu>), which sponsors interdisciplinary conferences, seminars, and course development, as well as providing fellowship support for interdisciplinary graduate students, postdoctoral fellows, and visiting collaborators. Furthermore, the joint Ph.D. degree programs between these departments provide attractive opportunities for Ph.D. students to engage in jointly mentored, collaborative research between departments.

Applicants should submit a curriculum vitae and a description of research accomplishments and future research plans and have three letters of recommendation sent on their behalf to **Chairperson, Computational Biochemistry and Biophysics Search Committee, Department of Biochemistry and Molecular Biology, Box CBB, Michigan State University, East Lansing, MI 48824-1319**. To ensure consideration, applications and supporting documents must be received by **December 15, 2002**. The faculty has explicitly endorsed efforts to increase the diversity of its ranks. Accordingly, candidates from groups currently underrepresented in academic science are especially encouraged to apply.

*Michigan State University is an Equal Opportunity/  
Affirmative Action Employer. Persons with disabilities have  
the right to request and receive reasonable accommodation.*

## POSITIONS OPEN

### FACULTY POSITIONS Microbial Pathogenesis and Immunology Department of Microbiology and Immunology Dartmouth Medical School

The Department of Microbiology and Immunology at Dartmouth Medical School (DMS) invites applications from Scientists whose focus is within the broad areas of microbial pathogenesis and/or immunology. The intent is to recruit two tenure-track faculty positions to expand our existing strengths in immunology and microbial pathogenesis. The successful applicant will hold the M.D. and/or Ph.D. degree and will join a faculty that has strong research and teaching credentials in a range of topics within the field of immunology and microbial pathogenesis. Although targeted primarily at the ASSISTANT/ASSOCIATE PROFESSOR level, senior candidates with particularly strong records of research accomplishment and sustained program growth and funding are welcome to apply. Candidates will be expected to develop and/or expand upon a strong, independent, yet collaborative research program in these broad areas. Teaching expectations include participation in courses in medical microbiology/immunology and graduate courses in the Molecular and Cellular Biology (MCB) Ph.D. program. Opportunities also exist to participate in related undergraduate courses.

These positions afford the opportunity to utilize the state-of-the-art facilities and resources associated with a major research and teaching institution and cancer center while enjoying the quality of life characteristic of the area of New England surrounding the Dartmouth community. For further information on the various programs at DMS and the NCCC, see the listings at websites: <http://www.dartmouth.edu/~dms/> and <http://NCCC.hitchcock.org>.

All applications should consist of curriculum vitae, a brief statement of research interests and plans, and three letters of reference. Applicants interested in the microbial pathogenesis position should direct their applications to: Ron Taylor, Ph.D., c/o Karen Thompson, Administrative Assistant, Department of Microbiology/Immunology, Dartmouth Medical School, Vail Building HB7550, Hanover, NH 03755. E-mail: [karen.l.thompson@dartmouth.edu](mailto:karen.l.thompson@dartmouth.edu). Those applicants interested in the immunology position should direct their applications to: Randy Noelle, Ph.D., c/o Marcia Ingalls, Bowers Building HB7556, Dartmouth Medical School, Lebanon, NH 03756. E-mail: [marcia.1.ingalls@dartmouth.edu](mailto:marcia.1.ingalls@dartmouth.edu). Applications will be reviewed beginning November 1, 2002, and continue until the positions are filled. Dartmouth Medical School is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and members of minority groups.

### TRANSPLANT IMMUNOLOGY RESEARCH University of Michigan Health System Department of Surgery

The Department of Surgery, Section of General Surgery, is seeking Ph.D. candidates for a **TENURE-TRACK POSITION** in the Division of Transplantation. The individual will conduct independent studies in the area of transplant immunology. Demonstrated skills as a Researcher (including teaching and administrative experience) are important qualifications. Academic rank will be determined by the applicant's credentials. All inquiries should be directed to:

Gerard M. Doherty, M.D.  
Professor and Head, Section of General Surgery  
University of Michigan Health System  
1500 East Medical Center Drive  
2920 Taubman Health Care Center  
Ann Arbor, MI 48109-0331

The University of Michigan is a nondiscriminatory/Affirmative Action Employer and strongly encourages females and minorities to apply.

## POSITIONS OPEN



**NEUROSCIENCE OF PHYSICAL ACTIVITY: ASSISTANT/ASSOCIATE PROFESSOR** in the Department of Exercise Science, School of Public Health. Applicants must have expertise in neuroscience or closely related field with a focus on physical activity and health, strong potential for extramural funding, and a commitment to excellent teaching. A Ph.D. or equivalent and postdoctoral experience is required. Send applications (cover letter, statement of research/teaching interests, curriculum vitae, and three letters of recommendation) to: Dr. Mark Davis, Department of Exercise Science, University of South Carolina, Columbia, SC 29208. Electronic submissions (e-mail: [jmdavis@sc.edu](mailto:jmdavis@sc.edu)) are encouraged. Website: <http://www.sph.sc.edu/EXSCmain.asp>. Review of applications will commence immediately and continue until position is filled. USC is an Affirmative Action/Equal Opportunity Employer.

### FACULTY POSITION Cancer Biology Stanford University Medical School

The Department of Pediatrics, Stanford University School of Medicine, is seeking two outstanding Investigators with research interests relevant to cancer biology for tenure-track appointments at the ASSISTANT or ASSOCIATE PROFESSOR level in the University Tenure Professoriate. Successful candidates are expected to establish high-quality, independent research programs. The predominant criterion for appointment in the University Tenure Line is a major commitment to research and teaching.

The recruitments expand an ongoing initiative in the Department to develop a center for cancer and blood diseases that investigates the molecular origins of cancer and translates these findings into advances in treatment and cure. The successful candidates must have an M.D. or M.D./Ph.D. degree and evidence of prior research excellence. Board certification in pediatrics is desirable and opportunities for clinical service activities are available depending on the candidate's interests and training.

Please send curriculum vitae, brief statement of research interests, and the names and addresses (including e-mail addresses) of three references to: Michael L. Cleary, M.D., Chair, Cancer Biology Search Committee, Department of Pediatrics, Stanford University School of Medicine, Stanford, CA 94305-5208.

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

**MATH/SCIENCE COORDINATOR:** Adelphi University, founded in 1896, Long Island's first liberal arts college, seeks Math/Science Coordinator. This administrative appointment will serve as liaison between faculty/programs in education and math and science. The Coordinator will have responsibility for the supervision and integration of all math and science initiatives between the School of Education and the College of Arts and Sciences including developing new coursework in education and arts and sciences to enhance math/science teacher preparation; recruitment strategies to attract undergraduates, graduates, and in-service teachers; partnerships with middle and secondary school districts and Adelphi alumnae now teaching in the field; and grant writing. Doctorate in science or mathematics education required with 7-12 teaching experience preferred. The candidate should possess strong leadership qualities across broad constituencies and a creative and collaborative vision. Send letter of interest; curriculum vitae; and the names of three references by December 1, 2002, to: Dean Gayle Insler, College of Arts and Sciences, Adelphi University, Garden City, NY 11530. Adelphi University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

## POSITIONS OPEN

### FACULTY POSITIONS Institute for Cell Engineering The Johns Hopkins University School of Medicine

Applications are invited for full-time, tenure-track faculty positions at both junior and senior levels. Preference will be given to applicants with broad interests in the cellular and molecular aspects of neuroscience including neural regeneration and repair, stem cells, cell fate specification, and axonal and dendritic targeting. Applicants should have a Ph.D. or M.D. and appropriate postdoctoral training. Faculty members are expected to establish or to have active, independent research programs and participate in teaching graduate and medical students. Deadline for applications is December 15, 2002.

Please send curriculum vitae, a brief description of current and future research interests, and arrange to have three letters of recommendation sent to:

Ted M. Dawson, M.D., Ph.D.  
Search Committee  
Institute for Cell Engineering  
The Johns Hopkins University  
School of Medicine  
600 North Wolfe Street, Carnegie 214  
Baltimore, MD 21287

An Equal Employment Opportunity/Affirmative Action Employer.

### FACULTY RECRUITING CHEMICAL ENGINEERING The University of Texas at Austin

The Department of Chemical Engineering invites applications for a tenure-track faculty position at the ASSISTANT PROFESSOR level. While not restricted to any particular area, the Department is emphasizing hiring in biotechnology and environmental science and engineering. A Ph.D. is required and applicants must have an outstanding record of research accomplishments and a strong interest in undergraduate and graduate teaching. The successful candidates are expected to teach chemical engineering undergraduate and graduate courses, develop a research program, collaborate with other faculty, and be involved in service to the university and the profession. Interested persons should submit detailed curriculum vitae including academic and professional experience; statements regarding their teaching philosophy and research plans; a list of peer-reviewed publications and other technical papers; and the names, addresses, and telephone numbers of three or more references to: Chairman, Department of Chemical Engineering, The University of Texas at Austin, One University Station C0400, Austin, TX 78712-0231. The University of Texas is an Equal Opportunity/Affirmative Action Employer. Applications from women and minorities are encouraged.

### TENURE-TRACK FACULTY POSITION

The Boston College Biology Department invites applicants to fill a tenure-track faculty position in the area of bioinformatics/computational biology at the level of ASSISTANT PROFESSOR or at a more senior level in conjunction with an initiative to build a bioinformatics program. We will consider candidates who focus primarily on theoretical approaches *in silico* as well as those who combine laboratory investigations with the development and use of bioinformatic tools. We expect the appointee to establish an externally funded, independent research program and to contribute to graduate and undergraduate training. For more information on our department, see website: <http://www.bc.edu/schools/cas/biology/>. Send curriculum vitae, brief descriptions of research plans and teaching interests, three recent publications, and confidential recommendation letters from three or more individuals to: Dr. Peter Clote, Chair, Bioinformatics Search Committee, Biology Department, Boston College, 140 Commonwealth Avenue, Chestnut Hill, MA 02467. Review of applications begins December 10, 2002, and will continue until the position is filled. Boston College is an Equal Opportunity/Affirmative Action Employer.



The Department of Biology ([www.bio.uni.edu](http://www.bio.uni.edu)) at the University of Northern Iowa invites applications for a tenure-track, assistant professor position in Plant Biotechnology/Plant Molecular Biology, effective August 2003. The successful candidate will develop a research program involving undergraduate and graduate students, develop and teach (a) course(s) in biotechnology for majors and contribute to other departmental needs by teaching Molecular Biology of the Cell (sophomore level) and/or nonmajors life science classes/labs. Faculty members are also expected to seek extramural funding.

A Ph. D. in a biological science and teaching experience are required. ABD's will be considered with evidence of completion by August 1, 2003, although postdoctoral research experience is desired. Please submit a curriculum vitae, undergraduate and graduate transcripts, a statement of research interests and goals, a statement of teaching interests including qualifications to teach courses mentioned above, and have three letters of reference sent to: **Dr. Jean M. Gerrath, Chair of Search Committee, Department of Biology, University of Northern Iowa, Cedar Falls, IA 50614-0421; [jean.gerrath@uni.edu](mailto:jean.gerrath@uni.edu); Telephone (319) 273-7152; Fax: (319) 273-7125.**

Salary is competitive based on qualifications. Benefits include TIAA/CREF, group life, disability, medical and dental insurance. Applications must be received by **November 22, 2002**, to be given full consideration. *The department encourages applications from minority persons, women, Vietnam era veterans, and persons with disabilities. The University of Northern Iowa is an Equal Opportunity Educator and Employer with a comprehensive plan for Affirmative Action.*



#### THE INTERNATIONAL CENTER FOR TROPICAL AGRICULTURE

The International Center for Tropical Agriculture (CIAT) and the International Food Policy Research Institute (IFPRI) are seeking a Program Director to lead the Biofortification Challenge Program (\$80+ million proposed budget over ten years), one of the Challenge Programs (CPs) selected by the Consultative Group on International Agricultural Research (CGIAR) for fast-track development. This position is a three-year, fixed term, renewable appointment.

The term 'biofortification' refers to a strategy of breeding staple food crops, which are relatively high in bioavailable micronutrients as a promising means to reduce micronutrient malnutrition in developing countries. The initial target micronutrients are iron, zinc, and vitamin A. The Biofortification CP involves collaboration between eight CGIAR Centers and a large number of partner institutions in developing and developed countries.

The Program Director will provide overall leadership of the inter-disciplinary project; manage and coordinate multiple project components; implement fund raising to meet budget goals; communicate project progress and results to a range of audiences; and establish alliances with interested partners.

**Required Qualifications:** Ph.D. in Agricultural Economics, Social Science, Plant Breeding, Human Nutrition or related field. Must possess a demonstrated record of achievement of 10+ years in bringing together economics, plant breeding, and nutrition-related research. Experience in a multi-cultural environment with the ability to communicate English both verbally and in writing is essential.

CIAT and IFPRI are non-profit organizations with more than 120 combined internationally recruited scientists. The Centers offer a collegial research environment with internationally competitive salary and benefits packages, and believe that staff diversity contributes to excellence. Therefore, CIAT and IFPRI encourage women and developing country nationals to apply.

Please send by **December 15, 2002** your curriculum vitae, salary requirements, the names of at least three references, and a detailed letter of interest summarizing the relevance of your experience to: **IFPRI Human Resource Services, REF# 01-168, 2033 K Street, NW, Washington, DC 20006, Fax: (202) 862-8187. E-mail: [IFPRI-HRINTL@cgiar.org](mailto:IFPRI-HRINTL@cgiar.org).** For more information on the biofortification program and on CIAT and IFPRI, please visit our websites at [www.ciat.cgiar.org](http://www.ciat.cgiar.org) and [www.ifpri.org](http://www.ifpri.org). *EOE.*



#### THE INTERNATIONAL FOOD POLICY RESEARCH INSTITUTE

#### DIRECTOR – UNIVERSITY OF FLORIDA GENETICS INSTITUTE

The University of Florida seeks a Director for the University of Florida Genetics Institute (UFGI). Candidates should have a Ph.D. or M.D. degree with a nationally recognized record of research achievement in the area of genetics and administrative experience. Major development of the Genetics Institute is a University priority as indicated by the planned construction of a new 300,000 sq. ft. building shared equally by the Genetics Institute and the Shands Cancer Center. The Institute will bring together diverse programs in human, plant, animal and microbial genetics. This new facility will house relevant units including the Powell Gene Therapy Center, a state of the art vivarium, plant growth facilities, genomics, proteomics, bioinformatics and other core facilities.

The director will be responsible for facilitating the University-wide strategic research initiatives as well as the educational goals of the UFGI through resource acquisition (grant acquisition and fund-raising), as well as new faculty recruitment and facility development assisted by targeted investments provided by the University. The Director will also be responsible for the coordination, design, performance, and evaluation of new and existing educational programs within the institution. Finally, the Director will be responsible for coordinating activities of all Genetics Institute Faculty with appointments in the College of Medicine, the College of Liberal Arts and Sciences and the Institute of Food and Agriculture Sciences. The academic appointment of the Director will be in the appropriate College, based on the candidate's qualifications and expertise.

A start date of July 1, 2003 is anticipated and salary will be commensurate with qualification and responsibilities. Qualified applicants should submit a curriculum vitae to **Richard W. Moyer, Chair UFGI Search Committee, Dept. of Molecular Genetics, P.O. Box 100266, University of Florida College of Medicine, Gainesville, FL 32610-0266.**

EEO/AEE

#### Department of Health and Human Services National Institutes of Health National Institute of Child Health and Human Development

#### Postdoctoral Opportunity

Postdoctoral positions are available for studies in cellular and molecular neuroscience focusing on the role of ligand/voltage-gated channels and second messenger systems in regulating dendritic signaling and plasticity in the hippocampus.

Experience in electrophysiology and optical imaging is desirable. Candidates must have a Ph.D. degree and less than 5 years postdoctoral experience. Interested applicants should submit CV, bibliography, a statement of research interests, and three letters of reference to:

**Dax Hoffman, Ph.D.**  
National Institutes of Health, NICHD  
Bldg. 49, Room 5A64  
49 Convent Drive MSC 4495  
Bethesda, MD 20892-4495  
(301) 402-6772; FAX: (301) 402-4777  
e-mail: [hoffmand@mail.nih.gov](mailto:hoffmand@mail.nih.gov)

*NIH is an Equal Opportunity Employer.*



## POSITIONS OPEN



University  
of Houston  
Clear Lake

### EXECUTIVE DIRECTOR ASSOCIATE OR FULL PROFESSOR APPOINTMENT

#### Environmental Institute of Houston

The University of Houston–Clear Lake (UHCL) invites applications for the position of Executive Director of the Environmental Institute of Houston (EIH). The EIH was created to address issues of environmental concern. With the University of Houston as its partner, EIH is a service and research operation with a broad scope of environmental activity. The Executive Director serves in a dual capacity as faculty member and administrative head of the EIH. Information regarding the position can be found online at **website: <http://b3308-adm.cl.uh.edu/hr/03-2035.htm>**. The successful candidate will hold a Ph.D. in a field related to environmental science or environmental management with teaching, research, and service experience appropriate to the rank of Associate or Full Professor. In addition, this individual will have a track record of federally funded research. He/she will also possess excellent written, oral, political, problem-solving, and demonstrated fundraising skills as well as knowledge of important regional environmental issues and will be able to coordinate project teams. UHCL (**website: <http://www.cl.uh.edu>**) is one of four independent universities that constitute the University of Houston System; it is located adjacent to the NASA/Johnson Space Center midway between Houston and Galveston, Texas. UHCL is an upper-level Bachelor's and Master's degree-granting institution, serving a diverse student population of 7,600 students from the state, nation, and abroad. To apply, submit a letter of application detailing qualifications for this position; curriculum vitae; and a minimum of three letters of recommendation to: **Search Committee for the Executive Director of the EIH, c/o Office of Human Resources, MC 167, University of Houston–Clear Lake, 2700 Bay Area Boulevard, Houston, TX 77058**. The position will be open until filled and consideration of applications will begin in late November 2002. UHCL hires only individuals authorized to work in the United States. UHCL is an Affirmative Action/Equal Opportunity Employer.

#### POSTDOCTORAL RESEARCH POSITION

The Center for Molecular Imaging Research at Massachusetts General Hospital and Harvard Medical School has an immediate opening for Postdoctoral Research Fellow with training in cell biology/immunology to study cellular events in cancer and/or Type I diabetes using molecular imaging technology. Applications including curriculum vitae and names of three references should be e-mailed to: **Dr. Anna Moore; e-mail: [amoore@helix.mgh.harvard.edu](mailto:amoore@helix.mgh.harvard.edu)** or mailed to:

**Anna V. Moore, Ph.D.**  
Assistant Professor of Radiology  
Massachusetts General Hospital  
Center for Molecular Imaging Research  
149 13th Street, Room 5419  
Charlestown, MA 02129

**RESEARCH ASSISTANT/POSTDOCTORAL POSITION** is available at the Whitney Laboratory, University of Florida, to study diversity, function, and evolution of proteins homologous to the Green Fluorescent Protein (see *BioEssays* 24: 953–959, 2002). More details on the projects can be found at **website: <http://www.whitney.ufl.edu/matz.htm>**. A competitive salary is available immediately for up to four years. Candidates must hold a Ph.D. or equivalent Doctoral degree in basic science. A background in protein science and molecular evolution would be valuable as well as skills in molecular techniques related to gene cloning/expression and protein purification. To apply, please send curriculum vitae, bibliography, and the names and contacts of three references to: **e-mail: [matz@whitney.ufl.edu](mailto:matz@whitney.ufl.edu)**.

## POSITIONS OPEN

### THE CITADEL

#### The Military College of South Carolina

**Biology:** The Department of Biology at The Citadel, the Military College of South Carolina, invites applications for a tenure-track Plant Ecologist at the **ASSISTANT PROFESSOR** level beginning August 2003. Candidates should possess a Ph.D. in biology or ecology. A specialization in plant community ecology or plant physiological ecology is preferred; other areas of interest will also be considered. The Department provides a broad biology B.S. degree program and a Core Curriculum Science sequence for the Corps of Cadets and graduate programs leading to the M.A.Ed. and MAT degrees. Teaching responsibilities will include undergraduate and graduate ecology courses, specialty courses in the candidate's area of interest, and participation in the Department's introductory biology courses. Candidates will be expected to develop an active research program. There are ample opportunities for collaborative research with state and federal agencies located in the Charleston area and to serve as adjunct faculty for the College of Charleston's graduate programs in marine biology and environmental studies. A letter of application; curriculum vitae; statements of teaching and research interests; and names, telephone numbers, and e-mail addresses of three references should be sent by December 6, 2002, to: **Dr. Paul M. Rosenblum, Head, Department of Biology, The Citadel, 171 Moultrie Street, Charleston, SC 29409**. Please reference Job Number F02-14SCI. Additional information about The Citadel is available at our **website: <http://www.citadel.edu>**.

*The Citadel is an Affirmative Action/Equal Opportunity Employer dedicated to multicultural diversity in campus leadership positions.*

**ORGANIC CHEMISTRY:** University of North Carolina at Wilmington. The Department of Chemistry (**website: <http://www.uncwil.edu/chem>**) invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level starting August 2003. The successful candidate is expected to demonstrate excellence in teaching and develop a vigorous, externally funded research program in organic chemistry containing a strong synthetic component at both undergraduate and graduate (M.S.) levels. A Ph.D. and postdoctoral experience are required. Screening will begin in mid-November and continue until the position is filled. The Chemistry Department at UNCW is housed in new, state-of-the-art buildings which are well equipped with modern instrumentation (e.g., 400 and 500 MHz NMRs, LC-MS, GC-MS, etc.). Please submit a letter of application, curriculum vitae, statement of teaching philosophy, summary of research plans, and have three letters of recommendation sent to: **Dr. Pamela J. Seaton, Department of Chemistry, UNCW, 601 South College Road, Wilmington, NC 28403-3297**. UNCW is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

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 and/or evolution. 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 cell and molecular biology and participation in graduate programs. More information at **websites: <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 three letters of recommendation to: **Dr. Grant Mastick, Search Committee Chair, Department of Biology/314, University of Nevada, Reno, NV 89557**. Applications received by December 1, 2002, will receive full consideration. *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN



### ASSISTANT PROFESSOR/ ASSISTANT CURATOR POSITION Systematic Herpetology

The Department of Ecology and Evolutionary Biology and Natural History Museum and Biodiversity Research Center at the University of Kansas invite applications for a tenure-track position as Assistant Professor (50%; nine months)/Assistant Curator (50%; nine plus two months) beginning 18 August 2003. Individual with an active, collections-based research program and a Researcher who employs phylogenetic methods and multiple, integrated approaches (e.g., organismal, molecular, and biodiversity informatics) to the study of the systematics of reptiles and/or amphibians is sought to serve as an Assistant Professor/Assistant Curator of Herpetology and teach courses in systematic herpetology, organismal diversity, and/or general biology. Ph.D. required; postdoctoral experience preferred. Demonstrated commitment to excellence in development/management of herpetological research collections and associated data required; curatorial experience (including management of collection databases and specimen-based biodiversity information) preferred. Active research program with demonstrated commitment to fieldwork required; research focus on reptiles and fieldwork experience preferred. Demonstrated commitment to graduate and undergraduate education and to excellence and innovation in teaching required. Send curriculum vitae (with e-mail address); statements of (1) research interests and future directions, (2) teaching philosophy, experience, and interests, and (3) curatorial and collection- and data-management philosophy, experience, and interests; two copies of selected publications and/or manuscripts; and have at least three letters of reference submitted to: **Dorothy Johanning, Administrative Assistant, Department of Ecology and Evolutionary Biology, 2041 Haworth Hall, 1200 Sunnyside Avenue, University of Kansas, Lawrence, KS 66045-7534**. Review of applications will begin December 2, 2002, and continue until position is filled. For more information, visit **website: <http://www.ukansas.edu/~eeb>**. Availability of position is contingent on final budgetary approval. *The University of Kansas is an Equal Opportunity/Affirmative Action Employer.*

#### FACULTY POSITION PROTEOMICS

The Division of Immunology at the Beckman Research Institute of the City of Hope is recruiting for a faculty member to establish and lead a new program in proteomics. Qualified candidates will have a Ph.D. degree, at least two years of experience in areas related to high-throughput protein analysis, and an interest in establishing strong, collaborative interactions with other Scientists in the Beckman Research Institute and City of Hope Medical Center. The new proteomics program will complement a well-established protein mass spectrometry group and involve the acquisition of new instrumentation including sample processing robotics and TOF-TOF and Q-TOF mass spectrometers. This is a **TENURE-TRACK FACULTY POSITION** with access to start-up funds and graduate students at the City of Hope Graduate School. Salary and benefits are commensurate with the University of California system. The City of Hope campus is located in Duarte, California, 40 miles east of Los Angeles, California. Please send résumés and address all questions to:

**Dr. Terry Lee**  
Division of Immunology  
Beckman Research Institute of the City of Hope  
1450 East Duarte Road  
Duarte, CA 91010  
Telephone: 626-301-8301  
E-mail: [tdlee@coh.org](mailto:tdlee@coh.org)



## Computational Biophysics at the University of Michigan



The University of Michigan is building a multidisciplinary Program in Bioinformatics (<http://www.bioinformatics.med.umich.edu>) bringing together advanced computational technology and experimental molecular bioscience. In particular we are recruiting in the area of Computational Biophysics. Integrated experimental and computational approaches are encouraged. The candidate will be a member of the Bioinformatics and Biophysics Programs with research interests in computational modeling and analysis of biomolecular systems. The University of Michigan is one of the world's finest research institutions with an energetic community of students, scholars, and scientists. Faculty positions are available at all levels in multiple departments. There are opportunities for candidates in Medical School departments with a primary focus on research as well as departments in schools with significant involvement in undergraduate education. Successful candidates will be expected to develop an innovative research program, to engage in teaching, and to share administrative functions of the Bioinformatics Program. Teaching responsibilities and research areas vary by department.

Candidates should send a biographical sketch, three letters of recommendation, research plan and a statement of career goals to:

**Chair, Computational Biophysics Search Committee**  
Medical Science Building II Room 5622  
University of Michigan Medical School  
Ann Arbor, MI, 48109-0621, USA

*The University of Michigan is an Equal Opportunity Employer  
and is committed to maintaining diversity in its  
hiring and training programs.*



## Assistant Director Mass Spectrometry Core University of Virginia

The University of Virginia is seeking to hire an Assistant Director for the Mass Spectrometry Core in the Biomolecular Research Facility. This individual will also work closely with the Cell Migration Consortium in the School of Medicine. The position would be at the level of Assistant Professor of Research. The candidate should possess a Ph.D. in Chemistry or the Biological Sciences and have significant experience in the mass spectrometry of biomolecules and the use of electrospray and ion-trap technologies. Experience in bioanalytical separations would also be a benefit.

Interested individuals should send their c.v. and the names of three references to:

**Jay W. Fox, Ph.D.**  
Asst. Dean for Research  
PO Box 800734  
University of Virginia Health System  
Charlottesville, VA 22908-0734

or by email to [jwf8x@virginia.edu](mailto:jwf8x@virginia.edu).

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



**Joslin Diabetes Center**



**HARVARD  
MEDICAL SCHOOL**

## Stem Cell Biology/ Pancreas Development

The Joslin Diabetes Center and the Department of Pathology at Harvard Medical School invite applications for a tenure-track position at the rank of Investigator/Assistant Professor. The successful candidate will be expected to establish an independent basic research program focused on some aspect of stem cell biology (pancreas, hematopoietic, neural or other).

Applicants should send a C.V., one-page summary of previous research, one-page description of future plans, and three letters of recommendation to:

**Search Committee**  
Attn: Ms. Kelly Elder  
Joslin Diabetes Center  
One Joslin Place, Rm. 475  
Boston, MA 02215  
Email: [kelly.elder@joslin.harvard.edu](mailto:kelly.elder@joslin.harvard.edu)

Qualified female and minority candidates are particularly encouraged to apply. Review of applications will begin on January 2, 2003.

[www.joslinresearch.org](http://www.joslinresearch.org) [www.hms.harvard.edu/pathol](http://www.hms.harvard.edu/pathol)

*Equal Opportunity/Affirmative Action Employers*

## GLOBAL OPPORTUNITIES



## TENURE AND TENURE-TRACK POSITIONS ESTABLISHED AND ENTRY-LEVEL SCIENTISTS The Bruce Rappaport Faculty of Medicine Technion-Israel Institute of Technology Haifa, Israel

Applications are invited for tenure and tenure-track positions for leading scientists in Physiology, Immunology and Genetics. For entry-level positions, a Ph.D. and/or M.D. degree followed by successful post-doctoral training are required. Applicants must have proven excellence in research, the ability to establish an independent research program, obtain extramural funds, and willingness to teach medical and graduate students.

Generous laboratory space, start-up funds and technical assistance will be available to successful candidates.

Applications, including curriculum vitae, list of publications, a one page summary describing future research plans, and the names and contact information for four referees, should arrive no later than December 31, 2002 and be sent to:

**Dr. Adi Salzberg**  
Coordinator, Search Committee  
Rappaport Faculty of Medicine  
P.O. B. 9649  
Haifa, Israel 31096  
E-mail: [hagits@tx.technion.ac.il](mailto:hagits@tx.technion.ac.il)



## POSITIONS OPEN

### TWO POSITIONS IN GENETICS/GENOMICS The University of Texas at Arlington

The Department of Biology at The University of Texas at Arlington invites applications for two tenure-track positions at the rank of **ASSISTANT PROFESSOR**. Exceptional candidates at other ranks will also be considered. We seek Eukaryotic Geneticists/Genomicists who will contribute to development of a focus in the areas of genetics and genomics in the Department. Potential areas of interest include (but are not limited to) population, evolutionary, or ecological genetics/genomics; quantitative or developmental genetics; and molecular evolution. Applicants must have a Ph.D. and a demonstrated record of research productivity commensurate with their experience. The successful candidates will be expected to establish vigorous, extramurally funded research programs and participate in both graduate and undergraduate education. Salary and start-up will be highly competitive. The Department offers several degrees including a Ph.D. in quantitative biology. Located in the Dallas/Fort Worth metropolitan area, UTA is a fast-growing, comprehensive university that is the second largest in the University of Texas system. Additional information may be found at website: <http://www.uta.edu/biology/>.

Applicants should submit curriculum vitae; copies of up to five significant publications; statements of research and teaching interests and philosophy; and the names, e-mail addresses, and telephone numbers of four persons who can provide letters of reference. Review of completed applications will begin November 18, 2002, and will continue until the positions are filled. Send applications to: **Dr. James V. Robinson, Chair, Genetics Search Committee, Department of Biology, University of Texas at Arlington, 501 South Nedderman Drive, Arlington, TX 76019-0498**. UTA is an Equal Opportunity/Affirmative Action Employer.

**ASSISTANT PROFESSOR, BIOCHEMISTRY.** The Department of Biochemistry, Biophysics, and Molecular Biology (BBMB) at Iowa State University (website: <http://www.bb.iastate.edu>) seeks an Assistant Professor to develop a research program in plant biochemistry. This position is affiliated with the Plant Sciences Institute (website: <http://www.plantsciences.iastate.edu>), a major research emphasis of the university, which has particular interest in developing the area of functional genomics. High-quality laboratory space and generous start-up support are available. In addition, a new metabolism laboratory is being established with a \$2.3 million grant from the W. M. Keck Foundation. Candidates must have a Ph.D. or equivalent, postdoctoral experience, and be committed to excellence in research and teaching. Preference will be given to those with accomplishments in plant biochemistry and/or functional genomics methodology and who articulate a clear vision for the development of a nationally recognized research program. Applicants should submit a cover letter, curriculum vitae, description of previous research accomplishments, explanation of future scientific objectives, and arrange for three letters of recommendation to be sent to: **BBMB Faculty Search, 1210 Molecular Biology Building, Iowa State University, Ames, IA 50011**. To guarantee consideration, applications should be received by November 15, 2002. Iowa State University is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority candidates are especially encouraged.

### TENURE-TRACK POSITIONS Department of Neurobiology Weizmann Institute, Rehovot, Israel

Applicants in molecular, cellular, or developmental neurobiology as well as in neurogenetic and neurodegenerative diseases with three years of postdoctoral research training should send curriculum vitae, research interests, and three names of potential references to: **Professor Zvi Vogel, Chairman, Department of Neurobiology, Weizmann Institute of Science, Rehovot 76100, Israel**. E-mail: [zvi.vogel@weizmann.ac.il](mailto:zvi.vogel@weizmann.ac.il).

## POSITIONS OPEN

### MUSC MEDICAL UNIVERSITY OF SOUTH CAROLINA

#### RESEARCH ASSISTANT/ ASSOCIATE PROFESSOR Medical University of South Carolina

Research Assistant/Associate Professor position to assist in the scientific direction and technical oversight in the development of multidisciplinary research program using molecular, genetic, and biochemical approaches for assessing the health status of marine organisms. Research will be conducted at the NOAA National Ocean Service, Charleston, South Carolina, collaboratively with other Investigators from academic, federal, and state institutions and designed to provide a linkage between organismal health and environmental assessment. Qualifications: Ph.D. degree in biochemistry, cellular/molecular biology or other relevant discipline and a minimum of five years of experience directing laboratory research. Salary: starting at \$54,000 with full benefits. Forward résumé (no FAX or e-mail) and three references to: **Director of Marine Biomedical and Environmental Sciences Center, 221 Fort Johnson Road, Charleston, SC 29412**. Applications will be accepted through November 29, 2002. The Medical University of South Carolina is an Affirmative Action/Equal Opportunity Employer.

#### FACULTY POSITION Chemical Oceanography University of Washington

The School of Oceanography at the University of Washington invites applications for a tenure-track **ASSISTANT PROFESSOR** position in chemical oceanography. We seek an Organic Geochemist who studies organic matter cycling in the ocean and/or in the coupled ocean-terrestrial atmospheric system. Persons who use specific organic compounds as tracers of carbon cycling processes are especially encouraged to apply. A Ph.D. degree is required by the date of appointment. The successful candidate will be expected to teach at both the undergraduate and graduate levels, to advise graduate students, and to conduct independent research. Applicants should send both printed and electronic copies of their curriculum vitae, a statement of research and teaching interests, a list of publications, recent reprints, and the names of four references to: **Professor Bruce W. Frost, Director, School of Oceanography, Box 357940, University of Washington, Seattle, WA 98195**. E-mail: [frost@ocean.washington.edu](mailto:frost@ocean.washington.edu). Preference will be given to applications received by 13 December 2002. The University of Washington is an Affirmative Action/Equal Opportunity Employer. The University is building a culturally diverse faculty and strongly encourages applications from women, minorities, individuals with disabilities, and Vietnam-era veterans and other covered veterans.

#### TENURE-TRACK ASSISTANT PROFESSOR Structural Biology

The Department of Biochemistry and the Kentucky Center for Structural Biology are soliciting applications for a faculty position in X-ray crystallography. A preference will be given to individuals who utilize X-ray crystallography to study the structure of membrane proteins and/or protein virulence factors. The successful candidate will join an existing structural biology group with expertise in high-field NMR and X-ray crystallography as well theoretical approaches to protein folding and structure. A listing of the faculty and their research interests can be found at website: <http://www.mc.uky.edu/biochemistry/departments/faculty/index.html>. Interested persons should submit their curriculum vitae, a summary of research interests, and letters of recommendation from at least three references (preferably online) to e-mail: [vanaman@uky.edu](mailto:vanaman@uky.edu) or to: **Faculty Search Committee, Department of Biochemistry 607A, University of Kentucky Medical Center, 800 Rose Street, Lexington, KY 40536-0298**.

An Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

### TENURE-TRACK POSITIONS GENETIC MEDICINE Cornell University Weill Medical College

As part of a significant enhancement of its basic biomedical science research programs and laboratory facilities, Weill Medical College of Cornell University (formerly known as Cornell University Medical College) is undertaking a major program initiative in the area of genetic medicine and is seeking to recruit tenure-track faculty at all levels to its newly formed Department of Genetic Medicine. We are especially interested in candidates with a focus on the genetic basis of human disease including single and complex gene-based disorders. Applications are encouraged from Investigators using large-scale genomic- and gene expression-based analyses of human and murine samples to identify genes underlying the pathogenesis of disease and targets for therapeutic intervention. Exceptional candidates in other related/appropriate fields will also be considered. Candidates for junior positions should demonstrate the potential of establishing a vigorous, independent research program. Candidates for senior positions should have an outstanding publication record as well as substantial recent success in obtaining peer-reviewed grant support. Appointment of these independent, tenure-track faculty is anticipated in the Department of Genetic Medicine, directed by **Ronald G. Crystal, M.D.** Recruited faculty will receive generous start-up support; will occupy newly constructed laboratories; and will have access to the newly completed, 12,000-square-foot Arthur and Rochelle Belfer Gene Therapy Core Facility. Candidates may participate in the Graduate School of Medical Sciences program, which includes faculty from the Weill Medical College and the Sloan-Kettering Institute, and in the Tri-Institutional M.D.-Ph.D. program, which also includes faculty from The Rockefeller University. Applications should include curriculum vitae, statement of research interests, and three letters of recommendation. Applications should be sent to: **Jennifer J. Cameron, Genetic Medicine Recruitment Committee (RC), Box Number 27, Weill Medical College of Cornell University, 1300 York Avenue, New York, NY 10021**. Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.

#### BEHAVIORAL ECOLOGIST University of Puget Sound

Full-time, tenure-track **ASSISTANT PROFESSOR**; begins fall term 2003. Teach sophomore-level course in ecology or freshman-level course that emphasizes evolution and diversity and a junior/senior-level elective class in animal behavior. Courses have both lectures and laboratories. Maintain an active research program involving undergraduates. May teach an interdisciplinary science and society course. Ph.D. with emphasis in behavioral ecology and commitment to undergraduate teaching and liberal arts education. Postdoctoral teaching or research experience desirable. Submit interest letter; teaching and research statements; curriculum vitae; and three reference letters by November 29, 2002, to: **Behavioral Ecology Search, University of Puget Sound, Campus Mail Box 1007, Tacoma, WA 98416**.

**BOTANY. ASSISTANT PROFESSOR**; full-time, tenure track. The Biology Department seeks a person with a Ph.D. plus combined strength in teaching and research and a commitment to research with undergraduates. Teaching responsibilities will include lectures and laboratories in botany, lectures in an environmental studies class, a contribution to the departmental introductory biology course, and an upper-level course and seminar in the individual's specialty. A background in aquatic biology is desirable. Applicants should provide curriculum vitae; a statement of teaching and research interests; and arrange for official transcripts and three letters of reference to be sent by November 22, 2002, to: **Dr. Lawrence Wirtle, Department of Biology, Alma College, 614 West Superior Street, Alma, MI 48801**. Telephone: 989-463-7282; e-mail: [wirtle@alma.edu](mailto:wirtle@alma.edu).



**The Agricultural Research Service, Plant Sciences Institute, Soybean Genomics and Improvement Laboratory in Beltsville, Maryland** is seeking a scientist to work in the area of **PLANT PROTEIN BIOCHEMISTRY/PROTEOMICS**. Salary is commensurate with experience (salary range GS-12: \$55,694 - \$72,400 and GS-13, \$66,229 - \$86,095 per annum) plus benefits. U.S. citizenship is required. Incumbent will design, conduct, and evaluate research on the level and predictability of collateral effects associated with transgenic events in soybean as they relate to the quality and safety of soybean seed constituents. Position requires education in molecular biology, plant physiology, and/or plant molecular genetics, plus (1) knowledge of principles, practices, and techniques of molecular biology, plant physiology, and/or plant molecular genetics; (2) Knowledge of protein biochemistry; (3) Skill in using techniques of proteomics and/or functional genomics, including protein separation and purification, HPLC, 2-D electrophoresis, mass spectrometry, and/or differential protein display; and (4) Ability to design, plan, conduct, interpret, present, and publish research results in peer-reviewed journals. For research information, contact **Dr. Perry Cregan** at **301-504-5723**.

Candidates must request a copy of vacancy announcement **ARS-X2E-2557** by either calling **301-504-1482** or via **www.afm.ars.usda.gov/divisions/hrd/index** in order to address specific information outlined in the vacancy announcement. Applications must be postmarked by **November 18, 2002**.

*USDA/ARS is an Equal Opportunity Provider and Employer.*



**MAYO CLINIC**

### **Gene Therapy Faculty Position Molecular Medicine Program Rochester, Minnesota USA**

Mayo Clinic in Rochester, Minnesota has an established Molecular Medicine Program with several groups working on gene therapy using different viral systems. The program, under the direction of **Dr. Stephen J. Russell**, is seeking a tenure track individual that can develop and maintain a competitive peer-reviewed research program focused on adeno-associated virus or high capacity adenovirus vectors.

The Molecular Medicine Program (<http://www.mayo.edu/research/mmp/>) was established at Mayo Clinic with the mission of integrating relevant basic science and clinical investigation in the areas of gene therapy and virology, and applying this to patient care in a timely and responsible manner. Mayo Clinic's research infrastructure and clinical strengths offer unparalleled opportunities to collaborate with clinician investigators on translating basic discoveries into the clinical setting. A competitive compensation and benefits package is available.

Mayo Clinic (<http://www.mayo.edu/>) is a not-for-profit organization that integrates research with clinical practice and education in a multi-campus environment. Rochester, Minnesota is approximately one hour from the Minneapolis/St. Paul metropolitan area. Rochester (<http://www.rochestermn.com/>) has excellent schools, a cosmopolitan cultural atmosphere, growing economy, clean environment, and has been consistently rated one of the best places to live in the USA by Money Magazine.

Applications will be accepted until the position is filled, but preference will be given to applications received by **December 15, 2002**. Applicants for this position should submit a cover letter expressing their interest and qualifications, along with their curriculum vitae, to:

**Stephen J. Russell, M.D., Ph.D.**

**Chair, Molecular Medicine Program Search Committee**

**Mayo Clinic**

**Guggenheim 18**

**200 First Street SW**

**Rochester, MN 55905**

**email: [russell.stephen@mayo.edu](mailto:russell.stephen@mayo.edu)**

**Fax: (507) 284-8388**

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



**MAYO CLINIC**

### **Section of Scientific Publications Manuscript Editor Position Rochester, Minnesota**

The Mayo Foundation and Mayo Clinic Section of Scientific Publications seek a full-time manuscript editor at Rochester, MN. Candidates should have substantial experience in editing peer-reviewed manuscripts, book chapters, books, and NIH grants. A relevant Ph.D. or M.D. degree is desirable but not essential. The current staff includes 7 biomedical editors and 23 editorial assistants and proofreaders. Candidates will be expected to furnish examples of their work so that the edited manuscript can be compared with the unedited copy. Successful applicants will be considered for a faculty appointment at Mayo Medical School (rank commensurate with experience). Mayo Clinic Rochester offers competitive compensation and comprehensive benefits including a relocation package. Our education and research emphasis also provides excellent opportunities for academic advancement. Apply by **January 15, 2003**.

Send CV to:

**Joseph G. Murphy, M.D., FRCPI**

**Chair, Section of Scientific Publications**

**Mayo Foundation and Mayo Clinic**

**Plummer Building, S-10**

**200 First Street SW, Rochester, MN 55905**

**Fax: 507-284-2107**

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

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

#### **Tenure-Track Position Cardiovascular Developmental Biology**

The Laboratory of Developmental Biology, NHLBI, is seeking an individual to direct an independent research program in cardiovascular developmental biology. The candidate will possess a Ph.D., M.D., or both, and have an outstanding record of research accomplishments as evidenced by publications in major peer reviewed journals. Although a broad scope of research interests is encouraged, particularly desirable is advance imaging experience and the application of genomic or physiologic genomic and/or proteomic approaches in the study of cardiovascular development. The position is tenure-track and comes with generous start up support. Also available are several core facilities including transgenic mouse facility, confocal and electron microscopy cores, multi-modality non-invasive mouse imaging facility, iRNA resources, and genomics and proteomic support.

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

Applicants should send a descriptive letter of interest, curriculum vitae and bibliography and arrange for three letters of reference to be sent to:

**Ms. Rosa Snell, Human Resources Branch**

**DHHS/NIH/National Heart, Lung and Blood Institute**

**31 Center Drive, MSC 2484**

**Bethesda, MD 20892-2484**

Please include vacancy identifier, **HL-02-0121** on ALL correspondence. Applications must be received no later than **December 31, 2002**.

**DHHS and NIH are Equal Opportunity Employers**

## POSITIONS OPEN

### FACULTY POSITION

**Experimental Biological Physics**  
University of Illinois, Champaign-Urbana

The Department of Physics invites applicants for a full-time, tenure-track position at the **ASSISTANT PROFESSOR** level in the area of experimental biological physics beginning as early as the 2003/2004 academic year. An appointment at a higher level will be considered for an exceptionally well-qualified candidate. A Ph.D. or equivalent is required along with the ability to teach effectively at both undergraduate and graduate levels and to conduct a vigorous and significant program in an area of contemporary biological physics. The successful applicant will be joining a department with large, active programs in both experimental and theoretical biological physics. The applicant will also have an affiliation with the Post Genomic Institute, a major, new interdisciplinary on-campus research center. Salary will be competitive and commensurate with qualifications. Applicants should submit curriculum vitae, a list of publications, a brief description of their research interests and plans, and names of three references who can provide letters of recommendation. For full consideration, application materials should arrive by January 20, 2003. These materials should be directed to: **Head (Biological Physics Search), Department of Physics, University of Illinois at Urbana-Champaign, 1110 West Green Street, Urbana, IL 61801-3080. Telephone: 217-333-3760. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.**

### TWO FACULTY POSITIONS

**Large Lakes Observatory**  
University of Minnesota Duluth

The University of Minnesota will fill two tenure-track faculty positions in the Large Lakes Observatory (LLO) on the Duluth campus ([website: http://www.d.umn.edu/llo](http://www.d.umn.edu/llo)). LLO is approaching its second decade of operation. LLO's outlook and activities are global with current research on lakes in East Africa, Asia, the United States, and Canada. We invite applications for the following two positions: (1) **DIRECTOR**. Candidates must have a Ph.D. in limnology, oceanography, or a related discipline; must have experience in leading an internationally recognized research program in any aspect of oceanographic or large lakes research; and must have a demonstrated commitment to further basic research on large lakes of the world. (2) **ASSISTANT PROFESSOR** in physical, chemical, or biological limnology/oceanography to conduct research on large lakes worldwide. Ph.D. in limnology, oceanography, or related field is required at the time of appointment. The Search Committee will begin to review complete applications on 8 November 2002 and will accept applications until the position is filled. For details and information on how to apply, visit the [website: http://www.d.umn.edu](http://www.d.umn.edu). The University of Minnesota is an Equal Opportunity Educator and Employer.

A **LANDSCAPE ECOLOGIST** with strong skills in GIS is sought to fill a tenure-track **ASSISTANT PROFESSOR** position in August 2003. Applicants must have a Ph.D. in ecology or related fields; postdoctoral experience is preferred. Establishment of a competitive research program and direction of M.S. and Ph.D. students is expected. Faculty with interests in conservation and biodiversity, the Missouri River Institute at University of South Dakota, the South Dakota Geological Survey, and the close proximity of the USGS/EROS Data Center provide opportunities for collaboration. Teaching responsibilities will include advanced courses in ecology and possible involvement in introductory biology courses. Send a cover letter, curriculum vitae, statement of research and teaching interests, and contact information for three professional references to: **Landscape Ecologist Search Committee, Department of Biology, 414 East Clark Street, The University of South Dakota, Vermillion, SD 57069**. Review of applications begins November 18, 2002, and continues until the position is filled. *Affirmative Action/Equal Opportunity Employer. Excellence in teaching is expected, both in the classroom and in mentoring students outside the classroom.*

## POSITIONS OPEN

### ASSISTANT PROFESSORS

**Two Tenure-Track Faculty Positions**  
**Biology Department**  
**Williams College**

The Biology Department at Williams College, a premier liberal arts college with a longstanding tradition of excellence in the sciences, invites applications for two tenure-track positions at the rank of Assistant Professor to begin July 2003. Neuroscientist with research interests in the molecular aspects of neuronal function to teach upper-level courses in neurobiology, introductory courses in cellular and molecular biology, and participate in the neuroscience program. Plant Molecular Biologist to teach upper-level courses in plant growth and development or physiology, introductory courses in cellular and molecular biology, and participate in the biochemistry and molecular biology program.

Normally, faculty members teach one course and two laboratories or the equivalent each semester. Start-up funds and internal funding for research are available, and a research program that attracts extramural funding and involves talented undergraduates is expected. Ph.D., postdoctoral experience, and a strong research record are required. Applicants should submit curriculum vitae; brief statements of teaching and research interests; and arrange for three letters of recommendation to be sent by December 5, 2002, to: **Heather Williams, Chair, Department of Biology, Williams College, Williamstown, MA 01267.**

*An Equal Opportunity/Affirmative Action Employer, Williams College especially welcomes applications from women and minority candidates.*

### ASSISTANT PROFESSOR

**Genetics of Behavior**  
**New Position, California Institute**  
**of Technology**

We invite applications for a tenure-track Assistant Professor appointment in the Division of Biology at the California Institute of Technology. We are seeking highly qualified candidates who are committed to a career in research and teaching. The applicant should conduct research directed at using genetic and/or molecular approaches to understand animal behavior. We encourage applications from individuals working on vertebrate or invertebrate systems. The initial appointment term is four years, and appointment is contingent upon completion of all the requirements for a Ph.D.

Applicants should submit curriculum vitae, list of publications, a brief statement of research interests and teaching experience, and arrange for three letters of recommendation to be sent to:

**Chair of Genetics of Behavior Search Committee**  
**Division of Biology 216-76**  
**California Institute of Technology**  
**Pasadena, CA 91125**

*The California Institute of Technology is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.*

### FACULTY POSITIONS

#### IN DEVELOPMENTAL NEUROBIOLOGY

**Columbia University**  
**College of Physicians and Surgeons**

Applications are invited for junior and senior tenure-track faculty positions. Candidates should have interests and skills that complement those of a newly formed and growing group of Developmental Neurobiologists working at the molecular, cellular, and systems levels.

Candidates should submit one copy of curriculum vitae with a two-page summary of research background and plans. Three letters of reference should also be submitted. Do not send e-mail. Send correspondence to: **Dr. Jane Dodd, Developmental Neurobiology Search, Columbia University, College of Physicians and Surgeons, Room 11-512, 630 West 168th Street, New York, NY 10032.**

Deadline for submissions is December 1, 2002, but applications will be evaluated as they are received. *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### BIOINFORMATICS

**Vassar College**

The Department of Biology at Vassar College invites applications for a tenure-track faculty position at the level of **ASSISTANT PROFESSOR**. We seek a Biologist whose research and teaching interests include bioinformatic approaches. Areas of expertise may include but are not limited to the following: evolution, functional or comparative genomics, microbiology, cellular and molecular biology, physiological systems, and protein biochemistry/proteomics. The successful candidate should expect to develop an upper-level course on bioinformatics as well as teach at the introductory and intermediate levels. Development of a research program with student participation is expected and start-up funding is provided. A Ph.D. in biological science is required and postdoctoral experience is preferred. This position is funded in part by a grant from the Howard Hughes Medical Institute. Consideration of applications will begin on 8 November 2002. Applicants should submit curriculum vitae, representative reprints, a statement of research interests and goals, a statement of teaching interests, and three letters of reference to: **Mark Schlessman, Chair, Department of Biology, Box 731, Vassar College, Poughkeepsie, NY 12604. E-mail: [schlessman@vassar.edu](mailto:schlessman@vassar.edu); website: <http://biology.vassar.edu/>. Vassar College is an Affirmative Action/Equal Opportunity Employer.**

### ASSISTANT OR ASSOCIATE PROFESSOR

#### Molecular Microbiology/Biotechnology

The Department of Biological Sciences, California State University, Los Angeles, will fill a tenure-track position beginning fall 2003 with an individual who has an interest in biotechnology and/or pharmaceuticals and experience in industrial research/development. Ph.D. in microbiology or related field and minimum of one year of relevant postdoctoral experience required. The selected candidate will be expected to develop a productive, independently funded research program involving undergraduate and Master's students; teach undergraduate and graduate courses; and develop internships to meet needs of students who seek careers in industry and/or advanced study. Start-up funds available. Submit curriculum vitae, statements of research plans and teaching philosophy, and three letters of reference to: **Dr. Nancy McQueen, Department of Biological Sciences, California State University, Los Angeles, 5151 State University Drive, Los Angeles, CA 90032. Inquiries to e-mail: [nmcquene@calstatela.edu](mailto:nmcquene@calstatela.edu). Position open until filled. Review of completed applications will begin December 16, 2002.**

*Equal Opportunity/Title IX/Americans With Disabilities Act Employer. Qualified women and minorities are encouraged to apply.*

### PLANT MOLECULAR BIOLOGIST

**The Ohio State University**

A tenure-track **ASSISTANT PROFESSOR** position is available for a Plant Molecular Biologist in the Program in Plant Molecular Biology/Biotechnology and in the Department of Plant Biology at The Ohio State University. Areas of interest include but are not restricted to proteomics, genomics, bioinformatics, development, metabolic engineering, physiology, cell biology, and biochemistry. The successful candidate is expected to establish a creative and productive research program and to excel in undergraduate and graduate teaching. Please submit curriculum vitae, a concise statement of research plans, a description of teaching experience and interests, and three reference letters to: **Fred Sack, Department of Plant Biology, Ohio State University, 1735 Neil Avenue, Columbus, OH 43210-1293**. Review of applications will begin December 6, 2002. For background, see [website: http://www.biosci.ohio-state.edu/~plantbio/plantbio.html](http://www.biosci.ohio-state.edu/~plantbio/plantbio.html) and <http://www.ag.ohio-state.edu/~pmmb/>. *The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and individuals with disabilities are encouraged to apply.*



## VETERINARIAN BIOLOGICAL SCIENCES

**DESCRIPTION:** The Department of Biological Sciences at The University of Texas at El Paso (UTEP) is seeking a highly motivated veterinarian to serve in support of the department's animal research program and supervisor of the Animal Facility. The position is multi-faceted, requiring leadership, involvement, and oversight in all aspects of the Program assuring compliance with all current federal, state and university animal welfare regulations. Responsibilities include animal procurement, overseeing animal care and husbandry, collaborating with faculty regarding animal research and support services, ensuring compliance with University policy and governmental animal welfare regulations for AAALAC International accreditation, supervising animal care personnel, and training all users. In addition, the candidate will have the opportunity to teach in both undergraduate and graduate programs in the department. A successful candidate should have: experience in animal research, particularly with rodents; knowledge of effective management principles and techniques including those dealing with personnel and budgetary practices and procedures; skill in written communication; and knowledge of governmental regulations and contemporary practices in animal care and use. **QUALIFICATIONS:** **Required:** The successful candidate will have: (1) Doctor of Veterinary Medicine from a school approved or accredited by the AVMA, (2) Current veterinary license to practice in at least one state within the U.S., and (3) Board certification in laboratory animal medicine or currently eligible, per ACLAM Certification Committee, to take ACLAM certification examinations. **This position is security-sensitive and subject to Texas Education Code §51.215, which authorizes the employer to obtain criminal history record information. This offer is contingent on completion of a satisfactory criminal background investigation.** **SALARY:** Salary will be commensurate with experience and qualifications. **APPLICATION PROCEDURE:** Interested candidates should submit curriculum vitae, letter of interest, and three (3) references to: **Dr. Kristine Garza, UTEP, Department of Biological Sciences, El Paso, Texas 79968-0519.**

*The University does not discriminate on the basis of race, color, national origin, sex, religion, age, disability, or sexual orientation in employment or the provision of services.*



## Vice President for Research and Dean, Graduate School of Biomedical Sciences The Texas A&M University System Health Science Center

The Texas A&M University System Health Science Center invites nominations and applications for the position of Vice President for Research and Dean of the Graduate School of Biomedical Sciences. The holder of this position serves as an advisor to the President on all aspects of the Health Science Center's (HSC) research and graduate education enterprise. This includes developing and implementing strategies for achieving the HSC's research goals; capitalizing on the strengths of the HSC's distributed campuses and interdisciplinary research centers; overseeing compliance with regulatory mandates; and ensuring that the research infrastructure is responsive to the needs of the HSC faculty investigators. As Dean of the Graduate School of Biomedical Sciences, the responsibilities include the recruitment, admission and matriculation of graduate students including the acquisition and growth of graduate student stipends to support research and teaching assistantships. It is expected that the holder of this position will work closely with the President on private fund raising for support of the research and graduate education enterprise. A complete job description can be found at: <http://tamushsc.edu>.

The new Vice President for Research and Dean, Graduate School of Biomedical Sciences will assume his/her duties as soon as possible after February 1, 2003. For full consideration, nominations and applications should be received by November 18, 2002, and should be sent to:

**Dr. Richard H. Finnell**  
Chair, Search Committee for VP for Research/  
Dean of Graduate School  
Institute of Biosciences and Technology  
The Texas A&M University System Health Science Center  
2121 W. Holcombe Blvd.  
Houston, TX 77030-3303

*The Texas A&M University System Health Science Center is an Equal Opportunity, Affirmative Action Institution.*

## POSTDOCTORAL POSITION

*H. LEE MOFFITT CANCER CENTER  
UNIVERSITY OF SOUTH FLORIDA*

Postdoctoral position available to study cell signaling events associated with cell adhesion and cancer cell survival (Blood 93, 1658, 1999; Oncogene 19, 4319, 2000; J. Immunol. 168, 2544, 2002). **This NIH/NCI sponsored research effort, led by William S. Dalton, PhD, MD, will focus on molecular mechanisms associated with cell adhesion mediated mechanisms of drug resistance.** The H. Lee Moffitt Cancer Center is a NCI Comprehensive Cancer Center and has extensive core laboratory support for genetic and molecular studies of cancer. Candidates should possess a PhD, MD, or MD/PhD and expertise in molecular biology.

To find out more, visit our Career Opportunities pages at [www.MoffittCancerCenter.org](http://www.MoffittCancerCenter.org) or contact us at:

H. Lee Moffitt Cancer Center & Research Institute  
12902 Magnolia Drive, Tampa, Florida 33612  
Attention: Human Resources, Modular 4  
Phone: (813) 975-7899  
Fax: (813) 975-7827  
E-mail: [resumes@moffitt.usf.edu](mailto:resumes@moffitt.usf.edu)

H. LEE  
**MOFFITT**  
Cancer Center & Research Institute



**USF** University of  
South Florida  
College of Medicine

The University of South Florida is an EOE/AA/EA institution. For disability accommodations, contact Kathy Jordan, 813-632-1451 a minimum of 5 working days in advance. According to FL law, applications and meetings regarding them are open to the public.

**The End Of Cancer Begins Here.**  
A National Cancer Institute  
Comprehensive Cancer Center  
At the University of South Florida



## ASSISTANT PROFESSOR DEPARTMENT OF BIOLOGY

Duquesne University is seeking an assistant professor, tenure track, who uses molecular, cellular, or organismal approaches to explore basic biological questions. The successful applicant is expected to establish a vigorous research program involving M.S., Ph.D., and undergraduate students, and to teach in the biology curriculum.

We are an interactive faculty, committed to combining externally funded research with excellence in teaching. We investigate problems in a diverse range of systems and we seek individuals who complement and extend these interests.

Competitive salary and start-up packages are available. Additional information about the Department can be found at <http://www.science.duq.edu/biology>.

To apply, send a cover letter, CV, names and contact information of three references, and statements of research and teaching goals to:

**Dr. David Lampe**  
Biology Faculty Search Chair  
Department of Biological Sciences  
Duquesne University  
600 Forbes Avenue  
Pittsburgh, PA 15282

Review of applications will begin December 9, 2002.

*Founded by the Holy Ghost Fathers in 1878, Duquesne University is Catholic in mission and ecumenical in spirit. The University values equality of opportunity both as an educational institution and as an employer.*

## POSITIONS OPEN

### TENURE-TRACK FACULTY The University of Wisconsin-Madison Drug Delivery

The Division of Pharmaceutical Sciences in the School of Pharmacy, University of Wisconsin-Madison, solicits applications for a tenure-track faculty position in the area of biomaterials and drug delivery. The position is at open rank (**ASSISTANT/ASSOCIATE/FULL PROFESSOR**) depending upon qualifications. Applicants must possess a Ph.D. in an appropriate field and be capable of building a strong, independent research program while engaging in productive interdisciplinary research related to drug delivery, tissue engineering, or gene delivery. A commitment to undergraduate and graduate education is essential. The successful applicant will occupy state-of-the-art laboratories in the newly constructed School of Pharmacy. There are multiple opportunities for research interaction within the Department whose faculty are engaged in drug research at the chemistry/biology interface. Significant collaborative opportunities also exist with faculty in other departments and programs across the campus. Applications will be accepted until March 15, 2003. Applicants should send a letter, curriculum vitae, names of references, a statement of teaching interests, and a summary of planned research to:

Joseph R. Robinson, Ph.D.  
Search Committee  
School of Pharmacy  
University of Wisconsin-Madison  
777 Highland Avenue  
Madison, WI 53705-2222  
Telephone: 608-262-7968  
FAX: 608-262-5345

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

One tenure-track faculty position for **ASSISTANT PROFESSOR** is available in the Department of Neuroscience and Physiology, State University of New York Upstate Medical University. The Department is rebuilding; its new focus will be developmental neurobiology. Researchers with interests in cell fate, neurogenetics, neurooncology, and plasticity are particularly encouraged to apply. Successful candidates must have proven record of research productivity. They are expected to establish independent, extramurally supported research programs and to participate in medical/graduate education. The local neuroscience community is interactive and multidisciplinary, having strengths in sensory systems and the molecular bases of disease. Positions offer possibilities of interdisciplinary interactions with faculty in basic and clinical science departments, Syracuse University, and the Syracuse Veterans Affairs Medical Center. Candidates should send curriculum vitae, statements of research and teaching experience, and the names of three references to: **Michael W. Miller, Chair, Department of Neuroscience and Physiology, SUNY Upstate Medical University, 750 East Adams Street, Syracuse, NY 13210.** Review of applications will be considered until the position is filled. *SUNY is an Equal Employment Opportunity/Affirmative Action Employer. Applications from women and minority candidates are especially welcome.*

**EVOLUTIONARY BIOLOGIST:** Tenure-track faculty position beginning August 2003. Ph.D. and expertise in molecular evolution, population genetics, evolution of development, or other area of evolutionary biology required. College teaching experience preferred. First screen: November 15, 2002. Submit letter of intent (including statements about teaching philosophy and experience, research interests, and role of research at an undergraduate institution); curriculum vitae; transcripts showing degrees awarded; and a list of at least three references to: **Human Resources Number 184, 800 West University Parkway, AD 110, Orem, UT 84058-5999.** See website: <http://www.uvsc.edu/hr/employ/> for details or contact: **Dr. J. Price; Telephone: 801-863-7447; e-mail: pricejm@uvsc.edu.** *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### 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, interface circuit design, and biophotonics. 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 team 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 Umran Inan, Search Committee Chair  
Department of Electrical Engineering  
Packard 355  
Stanford University  
Stanford, CA 94305-9515

The review of applications will begin on January 1, 2003, but applications will be accepted until February 1, 2003, or until the position is filled. *Stanford University is an Equal Opportunity Employer and welcomes nominations of women and minority group members and applications from them.*

### AQUATIC ECOLOGIST

The University of St. Thomas in St. Paul, Minnesota, Department of Biology, seeks a tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** in aquatic ecology to begin fall 2003. Rank depends on qualifications. We seek outstanding candidates with interests in invertebrate or community aspects of aquatic ecology. Teaching opportunities exist in ecology, conservation biology, and advanced courses in aquatic or field biology. Contribution to teaching majors' introductory courses also expected. Successful candidate expected to develop a vigorous, fundable research program involving undergraduates. Faculty research is supported by ongoing course-release time and start-up funds to establish a research laboratory. Ph.D. required; postdoctoral experience preferred.

Biology Department [website: http://www.stthomas.edu/BIOL](http://www.stthomas.edu/BIOL). Send cover letter (refer to Position Number 200402), curriculum vitae, statements of teaching philosophy, research experience and goals, and three letters of reference to: **Department of Human Resources, Mail Number AQU217, 2115 Summit Avenue, St. Paul, MN 55105.** Website: <http://www.stthomas.edu/employment>. Application review begins December 31, 2002. *Affirmative Action/Equal Opportunity Employer.*

**ASSISTANT PROFESSOR,** Center for Immunology and Microbial Disease, Albany Medical College. An Assistant Professor position (nontenure track) in a cellular immunology program at the Albany Medical College is available immediately. The successful applicant will teach courses in graduate immunology, medical student disease and defense, and graduate microbiology; supervise laboratory techniques of graduate students and Postdoctoral Fellows; conduct research concerning microbial disease and immunology; advise students; and participate in faculty and committee activities. Requirements are a Ph.D. in biochemistry plus demonstrated research productivity. To apply, please send curriculum vitae, a brief letter outlining research experience, and the names and addresses of three references to: **Dennis W. Metzger, Ph.D., Theobald Smith Alumni Professor and Director, Center for Immunology and Microbial Disease, Albany Medical College, MC-151, 47 New Scotland Avenue, Albany, NY 12208.**

## POSITIONS OPEN

**BIOCHEMISTRY.** The Department of Chemistry at John Carroll University ([website: http://chemistry.jcu.edu](http://chemistry.jcu.edu)) invites applications for a tenure-track **ASSISTANT PROFESSOR** position beginning August 2003. A Ph.D. in biochemistry is required. Some previous teaching experience is preferred. The successful candidate is expected to teach biochemistry courses and laboratories, introductory-level chemistry courses, participate in the University's strong Biochemistry/Molecular Biology Concentration, and establish an active undergraduate research program that results in publication. The Department is well equipped in chemical and biochemical instrumentation, is currently an NSF-REU site, and will move into the new Dolan Center for Science and Technology upon its completion in fall 2003. John Carroll University is a privately controlled, co-educational, Catholic and Jesuit university located in the eastern suburbs of Cleveland, Ohio. Curriculum vitae, undergraduate and graduate transcripts, three letters of recommendation, a statement of teaching philosophy, a description of proposed research, and equipment needs should be sent to: **Dr. Paul R. Challen, Chair, Department of Chemistry, John Carroll University, The Jesuit University in Cleveland, University Heights, OH 44118.** Review of applicants will begin October 2002 and we anticipate holding interviews in November 2002. *John Carroll University is an Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL FELLOW

The Zoological Society of San Diego, California, is seeking a Postdoctoral Fellow (Ph.D. or D.V.M./Ph.D.) to join the Molecular Diagnostics Laboratory in the Pathology Department. Projects center on discovery and characterization of etiologies and mechanisms of emerging and ongoing infectious and genetic diseases in diverse animal species. A strong background and extensive experience in molecular biology is essential. Experience with human or animal diseases is desirable. This is an exempt position with a competitive salary, an appointment for at least two years, and is available as early as January 2003.

Send curriculum vitae and the names of three professional references to: **Human Resources, Zoological Society of San Diego, P.O. Box 120551, San Diego, CA 92112, Attention: PATH Number 173034.** Website: <http://www.sandiegozoo.org>. Deadline: December 3, 2002. *Equal Opportunity Employer/Affirmative Action.*

**ASSISTANT PROFESSOR** of plant microbiology and pathology, molecular nematology. Full-time, tenure-track position to establish a nationally competitive research program in the biology/molecular biology of nematodes. Preference will be given to candidates whose program emphasizes soybean cyst nematode. Teaching will include a graduate course in general nematology and another course in his/her specific area of expertise. Send curriculum vitae, statement of research and teaching interests, and three current letters of reference to: **Margie Anglen, 1-41 Agriculture Building, Plant Sciences Unit, University of Missouri-Columbia, Columbia, MO 65211.** Screening of applications will begin January 10, 2003. See [website: http://www.psu.missouri.edu/](http://www.psu.missouri.edu/) for details. To request Americans With Disabilities Act accommodations, please contact our Americans With Disabilities Act Coordinator; Telephone: 573-884-7378.

### THE HEISER PROGRAM FOR RESEARCH IN LEPROSY AND TUBERCULOSIS

Beginning **POSTDOCTORAL RESEARCH FELLOWSHIPS** in leprosy and tuberculosis available at stipend levels between \$30,000 and \$35,000 (plus other allowances) and research grants in leprosy only in amounts up to \$30,000. Also reinstituted this year: travel grants up to a maximum of \$5,000. Applicants should have M.D., Ph.D., or equivalent degree. Application deadline: February 1, 2003, for awards to be activated July through December 2003. For information and forms, write: **The Heiser Program, 450 East 63rd Street, New York, NY 10021.** FAX: 212-688-6794.

# Elements of AAAS Science & Technology Policy Fellowships 2003:04

## He

help shape science and  
technology policy

## Op

a great opportunity  
for accomplished and  
societally-aware scien-  
tists and engineers

## Co

contribute scientific and  
technical information

## Le

learn how  
government works

## Un

a unique and prestigious  
participatory experience

## He

**Help** shape science and technology policy in Washington, DC. Contribute scientific and technical information and external perspectives to federal decision-making, while learning how government works. The AAAS fellowship programs provide a unique participatory public policy experience for scientists and engineers, through one-year assignments involving domestic and international science policy issues in the Congress and several executive branch agencies. Stipends begin at \$58,000.

## Ap

**Applicants** must have a PhD or an equivalent doctoral-level degree by the application deadline from any physical, biological or social science, any field of engineering, or any relevant interdisciplinary field. Individuals with a master's degree in engineering and at least three years of post-degree professional experience also may apply. U.S. citizenship is required. Federal employees are not eligible. Approximately 50 fellowships are awarded in nine different programs. Underrepresented minorities and persons with disabilities are encouraged to apply.

## Be

The fellowship year **begins** September 1, 2003. Fellows attend a two-week orientation before beginning their assignments and participate in a year-long seminar series on topics relevant to science, technology and public policy. Application deadline is January 10, 2003.

## Pl

Fellows are **placed** in the Congress, the National Science Foundation, the National Institutes of Health, the Department of State, the Department of Defense, the Agency for International Development, the Environmental Protection Agency, the Department of Agriculture, the Food and Drug Administration and other federal offices.

## Op

AAAS sponsors these programs to provide the **opportunity** for accomplished and societally-aware scientists and engineers to participate in and contribute to the public policy making process of the federal government. The programs include:

- Congressional Fellows
- Diplomacy Fellows
- AAAS/NIH Science Policy Fellows
- AAAS/NSF Science and Engineering Fellows
- Defense Policy Fellows
- Environmental Fellows
- AAAS/NTI Fellows in Global Security
- Roger Revelle Fellows in Global Stewardship
- Risk Policy Fellows in Health, Safety and the Environment

## In

For application **instructions** and further information:  
AAAS Science and Technology Policy  
Fellowship Programs  
1200 New York Avenue, NW  
Washington, DC 20005  
Phone: 202/326-6700  
E-mail: [science\\_policy@aaas.org](mailto:science_policy@aaas.org)



*Advancing science • Serving society*

**[www.fellowships.aaas.org](http://www.fellowships.aaas.org)**

American Association for the Advancement of Science



## POSITIONS OPEN

### ASSISTANT PROFESSOR ENVIRONMENTAL ANALYTICAL CHEMISTRY Tenure Track American University

The Department of Chemistry at American University is recruiting a tenure-track Assistant Professor in the area of environmental analytical chemistry beginning the fall semester of 2003. Qualifications: Ph.D. required; postdoctoral and previous teaching experience preferred. Responsibilities: Teach undergraduate and graduate analytical/environmental courses in the University's general education, chemistry, or environmental science programs; conduct research and develop a strong publication record; advise students; mentor women and minority students; perform department and university service. The University is seeking highly dedicated teachers and scholars who are deeply committed to interdisciplinary learning, the application of new technologies in teaching and scholarship, and to the preparation of students for life in a diverse and rapidly changing global society. Applicants should submit curriculum vitae, statement of teaching philosophy, outline of research interests, and have three letters of recommendation sent to: **Tenure-Track Chemistry Search, American University, 4400 Massachusetts Avenue, N.W. Washington, DC 20016-8014.** Review of candidates will begin immediately and will continue until the position is filled. *American University is an Equal Employment Opportunity/Affirmative Action University committed to a diverse faculty, staff, and student body; minority and women candidates are encouraged to apply.*

### ASSISTANT PROFESSOR (TENURE-TRACK) Behavioral Neuroscience Morehouse College

The Division of Science and Mathematics at Morehouse College seeks candidates for a tenure-track Assistant Professor position in behavioral neuroscience. This appointment will be in either the Biology, Chemistry, Computer Science, Mathematics, Physics, or Psychology Departments depending on the neuroscience interests and expertise of the successful candidate. We seek an individual possessing a Ph.D. and a strong commitment to undergraduate teaching. The successful candidate is expected to establish a research program that involves undergraduates. Submit curriculum vitae, description of teaching experience and philosophy, description of research interests and career goals, and the names and contact information for three references to: **Dr. J. K. Haynes, Dean, Division of Science and Mathematics, Morehouse College, 830 Westview Drive S.W., Atlanta, GA 30314.** E-mail: [jhaynes@morehouse.edu](mailto:jhaynes@morehouse.edu). Deadline: January 1, 2003.

*Morehouse College is an Equal Opportunity/Affirmative Action Employer.*

### ANIMAL PHYSIOLOGIST

The Department of Biology at William Paterson University invites applications for a tenure-track **ASSISTANT PROFESSOR** in animal physiology starting September 1, 2003. Ph.D. required; postdoctoral research and teaching experience preferred. The ideal candidate will have broad training in physiology, especially pertaining to vertebrate development; neurobiology; or molecular biology. Teaching responsibilities include anatomy and physiology, animal physiology, and upper-level courses in area of specialization. Candidates are expected to develop a research program involving students. The Department offers B.S. and M.S. degrees in both biology and biotechnology. Applicants should submit curriculum vitae; statement of research interests and teaching philosophy; names, addresses, and telephone numbers of three references to: **Dr. Eileen Gardner, Chairperson, Department of Biology, Science Hall, William Paterson University, 300 Pompton Road, Wayne, NJ 07470.** Review begins immediately and continues until the position is filled. *William Paterson University New Jersey is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.*

## POSITIONS OPEN

### EVOLUTIONARY BIOLOGIST

The Department of Zoology at the University of Florida invites applications for a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR** position in evolutionary biology beginning August 2003. We seek a Population Geneticist who is strongly quantitative; is committed to linking data with theory; and integrates well with existing departmental research strengths in ecology, behavior, and genetics. Preferred areas include evolutionary theory or empirical studies of rapid, experimental, or applied evolution. This colleague will be expected to establish an internationally recognized, externally funded research program; supervise graduate students; and teach undergraduate and graduate courses including one in population genetics. Please submit curriculum vitae, a collection of recent reprints with the most significant three papers identified, statements of research and teaching interests, and have three letters of reference sent to: **Evolutionary Biology Search Committee, Department of Zoology, P.O. Box 118525, University of Florida, Gainesville, FL 32611-8525.** Applications must be received by December 10, 2002. For more information, see **website:** <http://www.zoo.ufl.edu/evosearch> or contact **e-mail:** [evosearch@zoo.ufl.edu](mailto:evosearch@zoo.ufl.edu). *The University of Florida is an Equal Opportunity Employer and we encourage applications from minorities and women.*

### ASSISTANT PROFESSOR (BIOCHEMISTRY) Center for Medical Education Ball State University Muncie, Indiana

The Muncie Center for Medical Education, a regional center of the Indiana University School of Medicine located on the Ball State University campus, invites applications for a tenure-track, fiscal-year position at the level of Assistant Professor available July 1, 2003. Responsibilities include establishing an independent research program and teaching medical biochemistry to first-year medical students. Minimum qualification: Ph.D. in biochemistry or related discipline. Preferred qualifications: postdoctoral experience; background in neuroscience. Start-up funds are available. Send letter of application listing current research activities, curriculum vitae, and the names and telephone numbers of three references to: **Dr. Douglas A. Triplett, Director, Indiana University School of Medicine, Muncie Center for Medical Education, Ball State University, Muncie, IN 47306.** **Website:** <http://www.bsu.edu/mcme>. Original transcripts will be required before interview. Application must be postmarked by January 15, 2003.

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

**NEUROBIOLOGY RESEARCH-TRACK (FACULTY) AND POSTDOCTORAL POSITIONS** available immediately for Cellular and/or Molecular Neurophysiologists to study pheromone transduction and chemosensory processing in mammalian olfactory and vomeronasal system (see *Nature* 405:792, 2000; *Science* 294:2172, 2001; *PNAS* 99:6376, 2002; *Nature* 419:70, 2002). Preference will be given to applicants interested in the function of second messenger-regulated-ion channels (TRP channels) or in the identification of ligands for G protein-coupled receptors. Applicants with electrophysiological experience are preferred; expertise in confocal microscopy, calcium imaging, and/or molecular biological techniques would be a great asset. Applicants must have a Ph.D. or M.D. Highly competitive salary/fringe benefits. Opportunity to interact with Neuroscientists in the neuroscience program (**website:** <http://neuroscience.umaryland.edu/>). Send curriculum vitae and names of three references to: **Dr. Frank Zufall, Department of Anatomy and Neurobiology, University of Maryland School of Medicine, 685 West Baltimore Street, Baltimore, MD 21201.** E-mail: [fzufa001@umaryland.edu](mailto:fzufa001@umaryland.edu). *University of Maryland is an Affirmative Action/Equal Opportunity/Americans With Disabilities Act Employer.*

## POSITIONS OPEN

### PLANT BIOLOGIST

The Botany Department, University of Wisconsin-Madison, invites applications for a tenure-track **ASSISTANT PROFESSOR** to begin as early as August 2003. We seek an individual who uses innovative approaches to study significant questions in the field of plant structure (which may range from the cell to organismal level). The successful applicant will be expected to develop a nationally competitive research program and will have ample opportunities to form productive collaborations within the large and strong community of Plant Biologists on the Madison campus. Teaching responsibilities include an undergraduate course in plant structure (anatomy/morphology/development) and contributions to teaching at the introductory and/or graduate level.

Applicants should submit their curriculum vitae, a statement of research and teaching goals, selected reprints, and have three letters of recommendation sent to: **Dr. Donna Fernandez, Plant Structure Search Committee, Botany Department, 132 Birge Hall, 430 Lincoln Drive, Madison, WI 53706-1381.** E-mail: [dfernand@facstaff.wisc.edu](mailto:dfernand@facstaff.wisc.edu). To ensure competitive consideration, applications should be received by December 15, 2002. *UW-Madison is an Equal Opportunity/Affirmative Action Employer. Please note that unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality.*

### TENURE-TRACK POSITIONS Cognitive Science Department Hebrew University

The Department of Cognitive Science at the Hebrew University invites applications for tenure-track positions in several areas of cognitive science. These areas include cognitive psychology (with preference to research on memory); brain and behavior (with preference to imaging research); and linguistics (with preference to theoretical linguistics, neurolinguistics, and computational linguistics). Preference will be given to candidates with interdisciplinary approach with special emphasis on cognitive neuroscience or computational approaches. Rank is open. Deadline for applications is December 15, 2002. Applicants should submit a letter of application describing their research and teaching interests, curriculum vitae, reprints and preprints, and have three letters of recommendation forwarded to: **Cognitive Search Committee, Dr. Oron Shagrir, Department of Cognitive Science, The Hebrew University, Jerusalem 91905, Israel.**

University of Oklahoma College of Medicine, Department of Cell Biology, invites applications at the **ASSISTANT/ASSOCIATE PROFESSOR** level. The Department is seeking candidates with an outstanding record in teaching and research. A Ph.D. and postdoctoral experience are required. Candidates for the senior position are expected to have extramural research support and experience in teaching gross anatomy to medical students. The application deadline is November 30, 2002. Qualified applicants should submit (preferably as a single pdf file) curriculum vitae, summary of research plans and interests, and representative reprints to: **e-mail: [allan-wiechmann@ouhsc.edu](mailto:allan-wiechmann@ouhsc.edu).** In addition, three letters of recommendation should be sent to: **Dr. Allan F. Wiechmann, Search Committee Chair, Department of Cell Biology, University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, OK 73190.** *OUHSC is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.*

**POSTDOCTORAL POSITIONS** in cognitive neuroscience and neuroanatomy project to study the anatomical and functional organization of the inferior parietal lobe in the monkey (with emphasis on the mirror neuron system) by using architectonics, tract tracing, and single neuron recording. Basic experience in these methods is required. Start date: flexible. All positions are for one year, renewable. Salary will be adapted to the candidate. Contact: **Professor Giacomo Rizzolatti; e-mail: [giacomo.rizzolatti@unipr.it](mailto:giacomo.rizzolatti@unipr.it).**

GeneOhm Sciences is a rapidly growing, dynamic biotechnology company based in San Diego. The Company is developing chip-based technology that uses the flow of electric current through DNA to detect genetic markers. This platform is being developed to enable clinicians to focus human genomic information on individual patient care. The research and development team at GeneOhm is a multidisciplinary group of world-class scientists and engineers. We currently seek outstanding scientists in the following areas:

GeneOhm Sciences

#### SENIOR SCIENTIST

##### Biochemistry/Molecular Biology

We seek a Senior Scientist to assist in the development of (i) new strategies for amplification and processing of DNA, and (ii) new protocols for multiplexed genotyping. Along with a strong background in nucleic acid biochemistry and enzymology, the position requires a Ph.D. in biochemistry, molecular biology, or related field, and 3-5 years of postdoctoral experience (preferably some industrial) or a BS/MS with 10+ years experience. Experience with DNA/RNA assay development, probe design and familiarity with DNA isolation protocols is particularly desirable, as is microarray and/or bioinformatics experience.

#### SENIOR SCIENTIST

##### Diagnostic Array Development

We seek a Senior Scientist to develop assays on microelectrode arrays for detection of DNA or RNA. The position requires a Ph.D. in chemistry or biology, 3-5 years of postdoctoral experience (preferably some industrial) and substantial experience with chip-based assay development. Demonstrated leadership and project management skills are also sought.

#### RESEARCH ASSOCIATES

##### Biochemistry/Molecular Biology and Electrochemistry

We currently seek highly-motivated BS/MS level scientists, preferably with 2-5 years of experience in industry. Strong organizational skills and the ability to work independently are highly desirable.

We offer a competitive salary and benefits package and a positive, dynamic working environment. Please forward CV/resume along with a cover letter and references to:

GeneOhm Sciences, Inc.

6146 Nancy Ridge Dr, # 101, San Diego, CA 92121

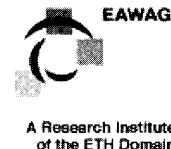
Ph: 858.334.6300 - Fax: 858.334.6301

Email: [hr@geneohm.com](mailto:hr@geneohm.com)

EOE

# ETH

Eidgenössische Technische Hochschule Zürich  
Swiss Federal Institute of Technology Zurich



## Professor of Aquatic Biology / Ecology

The open position is within the Department of Environmental Sciences at ETHZ and heads the section of Limnology at the Swiss Federal Institute for Environmental Science and Technology (EAWAG). Candidates with an outstanding international academic record in any relevant area of aquatic biology / ecology of freshwater organisms will be considered. Preference may be given to areas such as community ecology and ecosystems analysis.

The successful candidate is expected to implement novel methodology and to be able to interface with the existing strengths at EAWAG and ETH. He / she should have the potential to direct a well-staffed research unit. Teaching responsibilities include courses in the relevant areas for students from Biology, Environmental Sciences and Engineering. EAWAG also maintains strong natural science and engineering programs and offers consulting in the area of structure and function of aquatic ecosystems.

Please submit your application with a curriculum vitae and a list of publications to the **President of ETH Zurich, Prof. Dr. O. Kübler, ETH Zentrum, CH-8092 Zurich, no later than December 15, 2002.** The ETHZ and EAWAG specifically encourage female candidates to apply, with a view towards increasing the proportion of female professors.



## Scientific Curators

Professional positions are available for Scientific Curators in the expanding Mouse Genome Informatics Programs at The Jackson Laboratory, working with the Mouse Genome Database, Gene Expression Database, Mouse Genome Sequence Project, Gene Ontology Project and Rat Genome Database Collaboration. Successful candidates will be primarily responsible for: data acquisition and analysis, evaluating and annotating data to be incorporated into the databases, integrating information from disparate sources, and interacting with research laboratories and genome centers to facilitate data transfer. In addition, Curators take part in database and interface design by contributing biological perspectives to new data content and displays.

Areas of preferred expertise include mammalian or comparative genomics, molecular, cellular, or developmental biology, anatomy, sequence analysis, and biochemistry. Other desirable attributes include excellent writing/communication skills and the ability to work effectively in a team environment. Ph.D. degree in Life Sciences or M.S. with appropriate experience required.

The Jackson Laboratory is one of the world's foremost centers for mammalian genetics research. Located in Bar Harbor, Maine, the lab is adjacent to Acadia National Park. Mountains, ocean, forests, lakes, and trails are all within walking distance. If you love high tech challenges but you're looking for a more natural environment, this is the opportunity you've been searching for.

**Interested applicants should send cover letter and c.v. to:**

Posting # sci/21, Human Resources, The Jackson Laboratory  
610 Main Street, Bar Harbor, Maine 04609

**Fax:** (207) 288-6106 ■ **Email:** [jobs@jax.org](mailto:jobs@jax.org)

*The Jackson Laboratory is an equal opportunity/affirmative action employer.*

[www.jax.org](http://www.jax.org)



**Parker H. Petit  
Scholars**

**Georgia Institute of  
Technology  
Parker H. Petit Institute for  
Bioengineering and Bioscience**

The Parker H. Petit Institute for Bioengineering and Bioscience invites applications or nominations for faculty positions at all levels with an appointment in the Petit Institute as a Parker H. Petit Scholar. Individuals who are conducting research at the forefront of bioengineering and the biosciences and who seek an interdisciplinary environment for their research are encouraged to apply.

The Parker H. Petit Institute for Bioengineering and Bioscience is a research institute bringing together faculty and students from various bio-related science and engineering disciplines. Launched in 1995, the Petit Institute moved into its present home in 1999, a \$31.5 million facility designed to foster interdisciplinary biomedical research. Current areas of research include bioinformatics, biomaterials, biomechanics, biophysics, bioprocessing, cellular and molecular biology, drug design and delivery, neuroengineering, structural biology, and tissue engineering. For further information on the Petit Institute, go to [www.ibt.gatech.edu](http://www.ibt.gatech.edu).

Faculty appointments will be to tenure track or tenured faculty positions in one of the academic units in science and engineering participating in the Petit Institute, and in addition appointments as Parker H. Petit Scholars by the Petit Institute for a 5-year period. Candidates must have a Ph.D. degree in science or engineering. A successful candidate will be housed in the Petit Institute building and will be expected to develop an active externally-funded research program, initiating collaborative research with other faculty in the Petit Institute as well as with other faculty on campus, and faculty at nearby institutions.

An applicant should submit a letter of application, a curriculum vitae, statements of research and teaching interests, and contact information (address and e-mail) for at least four individuals who can serve as references. This information should be submitted to Dr. Robert M. Nerem, Professor and Director, Parker H. Petit Institute for Bioengineering and Bioscience, Georgia Institute of Technology, 315 Ferst Drive, Atlanta, GA 30332-0363. This search will begin immediately and will continue until all positions are filled.

*Georgia Tech is an equal opportunity educator and employer.*

## POSITIONS OPEN

### BIOLOGY: TWO POSITIONS AUGSBURG COLLEGE

Augsburg, a private coeducational college of the liberal and professional arts affiliated with the ELCA, offers an education grounded in Christian values; a diverse campus community; and an exciting metropolitan setting in the Twin Cities of Minneapolis/St. Paul, Minnesota. The Biology Department invites applications for positions in biology to begin September 2003. Ph.D. required; teaching and postdoctoral experience preferred. (1) **BOTANIST**, tenure track. Responsibilities include collaborative research with students and teaching in plant biology, plant physiology, and introductory courses for majors and nonmajors. (2) **MICROBIOLOGIST**, fixed term. Responsibilities include microbiology, immunology, and introductory courses.

Send letter of application, curriculum vitae, undergraduate and graduate transcripts, and three letters of recommendation to: **Heather Hultquist, C.B. 228, Augsburg College, 2211 Riverside Avenue, Minneapolis, MN 55454. E-mail: hultquist@augsb.org**. Review of complete application will begin December 15, 2002, and continue until the position is filled. For additional information, visit **website: <http://www.augsburg.edu>**. *Equal Opportunity Employer.*

### FACULTY POSITION Assistant Professor of Biology

The Department of Biology at Northeastern Illinois University invites applications for a tenure-track **ASSISTANT PROFESSOR** position in genetics beginning fall 2003. An earned Doctorate in a relevant discipline specializing in genetics is required. Competency and experience in molecular techniques desirable. Teaching graduate and undergraduate course in genetics and in area of specialization. Participation in general biology courses for majors and nonmajors. Commitment to involve undergraduate and graduate students in research. Research and service are encouraged and expected. Review of applications will begin November 18, 2002, and continue until position is filled. Send letter of application, curriculum vitae, e-mail address, statements of research and teaching interests, and three letters of recommendation (at least one concerning teaching effectiveness) to: **Dr. Simon L. Chung, Department of Biology, Northeastern Illinois University, 5500 North St. Louis Avenue, Chicago, IL 60625. Affirmative Action/Equal Opportunity Employer.**

**ASSISTANT EDITOR.** We seek a Scientist to join a team developing an online research resource for the field of nuclear receptors. Primary responsibilities will include mining the literature and database curation, soliciting and editing content, and writing original material for the site. The successful candidate will have a strong grasp for the fundamentals of nuclear receptor mechanisms and biology and a flair for written English. This is an excellent opportunity to apply a nuclear receptor background to the emerging area of Web-based scientific publishing. Ph.D. essential. Salary commensurate with experience. Please send curriculum vitae and a covering letter explaining your interest in the position to: **Neil McKenna, Ph.D., Department of Molecular and Cellular Biology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. E-mail: nmckenna@bcm.tmc.edu. Baylor College of Medicine is an Equal Opportunity Employer.**

**POSTDOCTORAL POSITION** is currently available for a candidate with Ph.D. who is interested in translational research program whose aim is to develop a cancer vaccine strategy against lung cancer based on expression of MAGE antigen. Solid background in cellular immunology and molecular biology essential. Mail or e-mail résumé to: **Sue Lambert, Bioimmunotherapy Department Unit 422, University of Texas M.D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030. E-mail: slambert@mdanderson.org. Equal Opportunity Employer.**

## POSITIONS OPEN



### ARIZONA STATE UNIVERSITY

#### FOUNDING DIRECTOR School of Life Sciences

The College of Liberal Arts and Sciences at Arizona State University seeks a Founding Director for its new School of Life Sciences. The School of Life Sciences will reorganize three existing departments into one unit consisting of approximately 75 faculty members conducting research and teaching across the full breadth of the biological sciences. The Founding Director is expected to provide visionary and entrepreneurial leadership for the School, oversee significant growth in the faculty and research programs, and establish strong ties between the School and other University or community-based research and education initiatives.

The position is available beginning 1 July 2003. Applicants should view the full job description, the full list of required and desired qualifications, and information on required application materials at **website: <http://lifesciences.asu.edu/lrsorg/directorsearch.pdf>**. Consideration of completed applications will begin on November 15, 2002; if not filled, completed applications will be considered on the first and 15th of each month thereafter until the search is closed. ASU is an *Equal Opportunity/Affirmative Action Employer.*

### UNIVERSITY OF SOUTHERN CALIFORNIA Institute for Genetic Medicine Department of Biochemistry and Molecular Biology

We are seeking outstanding candidates at the **ASSISTANT or ASSOCIATE PROFESSOR** level who use contemporary genetic and/or genomic approaches to study model organisms or human disease. We are looking for interactive colleagues to complement our existing group of eight faculty in the Institute for Genetic Medicine. Competitive start-up packages and modern, well-equipped research facilities in the IGM laboratories will be offered.

Please send curriculum vitae along with a statement of past research accomplishments and future plans. Candidates for Assistant Professor should also arrange for three letters of recommendation to be mailed. Contact:

**Roseann Cadena  
Institute for Genetic Medicine  
Keck School of Medicine  
University of Southern California  
2250 Alcazar Street, CSC 240  
Los Angeles, CA 90089-9075  
E-mail: [cadena@usc.edu](mailto:cadena@usc.edu)  
FAX: 323-442-2764**

Charleston, South Carolina, consulting firm has opportunity for **GEOPHYSICIST/GEOSCIENTIST** to utilize computer-aided radar tomography (CART) in surveying underground infrastructure at various types of project sites. Minimum requirements for the position are the equivalent of a Bachelor of Science or higher with an academic concentration in geoscience or geophysics and at least two years of substantive experience in subsurface utility engineering, project management, and use of CART hardware and software. Contact: **Rosemary Kiekow, Director of Human Resources, General Engineering Laboratories, P.O. Box 30712, Charleston, SC 29407.**

**HEALTH OUTCOMES SENIOR SCIENTIST:** Wyeth-Ayerst Pharmaceuticals, Inc., seeks an individual to support the development of marketing of pharmaceutical products with health outcomes assessment research including instrument selection; regulatory submission preparation; and model development for analyses of clinical data. Successful candidates will have a relevant Doctorate degree and at least three years of experience in health outcomes research in support of pharmaceutical development. Send résumé to: **Wyeth, 500 Arcola Road, RC 2111, Collegeville, PA 19426. Attention: Job Code ONP1-HOS-CB. FAX: 484-865-9327.**

## POSITIONS OPEN

### ASSISTANT PROFESSORSHIP POPULATION GENETICS Biology Department, York University Toronto, Canada

A tenure-track position in population genetics (broadly defined) is available July 1, 2003. Candidates should have an excellent research record and a keen interest in both undergraduate and graduate teaching. Preference will be given to candidates carrying out both theoretical and empirical work. The Department has excellent research facilities (including the molecular core facility) and strengths in ecology; evolution; genetics; immunology; cell, molecular, and structural biology; and physiology. New undergraduate streams in conservation biology and biotechnology have recently been initiated. Please mail curriculum vitae, single copies of three publications, an outline of future research plans, a statement of teaching interests, the names of three references, and arrange to have them send reference letters by January 6, 2003, to: **Dr. J. Shore, Department of Biology, York University, 4700 Keele Street, Toronto, Ontario M3J 1P3 Canada. FAX: 416-736-5698.**

York University has an *Affirmative Action Program* with respect to its faculty and librarian appointments. The designated groups are women, racial/visible minorities, persons with disabilities, and aboriginal peoples. Persons in these groups must self-identify in order to participate in the *Affirmative Action Program*. The Biology Department welcomes applications from persons in these groups. The *Affirmative Action Program* can be found on York's **website: <http://www.yorku.ca/acadjobs/index.htm>** or a copy can be obtained by calling the *Affirmative Action Office*; Telephone: 416-736-5713. All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.

### FACULTY POSITION Computational Medicinal Chemistry The University of Mississippi

The Department of Medicinal Chemistry within the School of Pharmacy seeks applications for a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** level. Applicants should possess the potential to develop an independent and collaborative research program in the area of computational medicinal chemistry. Qualified candidates will possess a Ph.D. in medicinal chemistry, organic chemistry, computational chemistry, or a related field. Teaching responsibilities will include involvement in the graduate and undergraduate curriculum. Applicants should submit (in a single parcel) current curriculum vitae; a description of past/present research projects; the names, titles, and contact information of three references; and a brief description of three separate research proposals. Applications should be addressed to: **Business Manager, School of Pharmacy, University of Mississippi, 1026 Thad Cochran Research Center, P.O. Box 1848, University, MS 38677.** Review of applications will begin immediately and continue until the position is filled or until an adequate applicant pool has been reached. The Department of Medicinal Chemistry houses the Laboratory for Applied Drug Design and Synthesis. For more information, please visit our **website: [http://www.olemiss.edu/depts/medicinal\\_chem/](http://www.olemiss.edu/depts/medicinal_chem/)**. The University of Mississippi is an *Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/Americans With Disabilities Act Employer.*

### TWO POSTDOCTORAL POSITIONS

Available immediately to study the regulation of cell survival and apoptosis in cancer cells (**Dr. R. K. Srivastava**) and the role and signaling of cell surface MUC1 mucin (**Dr. K. C. Kim**) in the Department of Pharmaceutical Sciences, University of Maryland, Baltimore. Strong background in cell and/or molecular biology required. A cover letter, curriculum vitae, and three names of references should be sent by e-mail: **[psc-search@rx.umaryland.edu](mailto:psc-search@rx.umaryland.edu)**. *University of Maryland is an Equal Opportunity Employer.*

## National Lab career positions

**Sandia National Laboratories** is a leading partner in the Department of Energy's Genomes to Life Program ([www.genomes-to-life.org](http://www.genomes-to-life.org)). We are developing a hierarchical understanding from molecular binding to environmental modeling of carbon sequestration in marine cyanobacterium.

Opportunities are available for micro/molecular biologists to apply state-of-the-art proteomic techniques to characterize protein complexes and protein-protein interaction motifs.

**Post-doctoral position:** Requirements include a Ph.D. in Micro/Molecular Biology or related field. Experience in bacterial molecular genetics, library construction/screening, phage display, and protein expression/purification desired. Protein mass spectrometry experience a plus.

**Technologist:** Requires a B.A. in Biology or related field, and experience in techniques to support above-stated areas.

Sandia offers a dynamic research environment with opportunities to work in multidisciplinary, motivated teams of experimental and computational biologists. We are located in Livermore, CA, approximately 50 miles east of San Francisco. Send resumes to: **Anthony Martino**, [martino@sandia.gov](mailto:martino@sandia.gov).

Sandia National Laboratories is an EEO/AA Employer.



**Sandia National Laboratories**

**The Hormel Institute  
A Research Branch of  
The University of Minnesota  
801 16<sup>th</sup> Ave NE  
Austin, MN 55912**

### Is seeking applicants for several postdoctoral level positions in

**Cellular and Molecular Biology:** Five postdoctoral positions are available to study the signal transduction pathways relevant to tumor promotion, chemoprevention and early development. We are seeking self-motivated individuals with a Ph.D. or equivalent and experience in biochemistry, molecular and cellular biology. Experience in signal transduction, functional genomics, Xenopus early development, stem cells, mouse transgenics and knockouts is a plus. Contact **Dr. Zigang Dong**, FAX 507-437-9606 or [ZigangDong@hi.umn.edu](mailto:ZigangDong@hi.umn.edu).

**Cellular and Developmental Biology:** Four postdoctoral level positions are available to study (1) the signaling transduction pathways mediating stress-induced apoptosis and related diseases (human eye diseases and others); (2) the molecular mechanisms for aging in human eye and other tissues (especially telomerase functions). Requires M.D. or Ph.D. in biochemistry, molecular biology, or related discipline. Contact **Dr. David Li**, FAX 507-437-9606 or [dwcli@hi.umn.edu](mailto:dwcli@hi.umn.edu).

**Cancer Biology:** Four postdoctoral positions are available immediately for persons with experience in the area of angiogenesis, apoptosis, cell biology, molecular biology and medicinal chemistry to conduct grant (NIH and DOD) funded research to study the underlying mechanisms of cancer chemoprevention by selenium and other agents. Doctoral training in an area related to the above fields is required. Position title and compensation will be commensurate with education and experience. Contact **Dr. Junxuan (Johnny) Lu**, FAX 507-437-9606 or [jlu@hi.umn.edu](mailto:jlu@hi.umn.edu).

**Membrane Biochemistry:** Three positions are available to study sphingolipid intermembrane trafficking by sphingolipid transfer proteins and their role in sphingolipid microdomain (raft) formation. Sphingolipid transfer protein structure-function, as regulated by glycosphingolipid membrane organization, will be investigated by fluorescence, monolayer, calorimetric and NMR approaches in combination with site-directed mutagenesis. Preference to individuals with experience in cloning, protein refolding, and/or lipid model membranes as well as the physical approaches noted above. Parallel focus will be on the cellular function of sphingolipid transfer proteins, including potential roles in apoptosis and cell growth/cycling. Preference to individuals with strong backgrounds in cloning, two-hybrid analysis, promoter analysis, protein phosphorylation, or kinase-related signaling. Requires M.D. or Ph.D. in biochemistry, molecular biology, or related discipline. Contact **Dr. Rhoderick E. Brown**, FAX 507-437-9606 or [rebrown@hi.umn.edu](mailto:rebrown@hi.umn.edu).

These positions will remain open until qualified candidates are found.

*The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.*

## Protein Biochemist: Macromolecular Assemblies and Interactions

The Department of Molecular Biology and Biochemistry at Simon Fraser University is seeking applicants for a tenure-track assistant professor in the field of protein biochemistry. The successful candidate must have expertise and interests in fundamental biochemical mechanisms controlling macromolecular assemblies and interactions, including but not limited to molecular machines. The candidate will be expected to develop a competitive externally funded research program and to contribute to the graduate and undergraduate teaching programs in this Department. The candidate will be joining a group of dynamic and interactive, research-intensive biochemists and molecular biologists.

A Ph.D. and relevant post-doctoral experience is required. Applicants should forward their curriculum vitae, a statement of research interests, and reprints of up to five representative research publications to:

**Dr. Michael J. Smith  
Protein Biochemist Search Committee  
Department of Molecular Biology and Biochemistry  
Simon Fraser University  
8888 University Drive  
Burnaby, B.C. V5A 1S6 CANADA**

Applicants should arrange for three confidential letters of reference to be sent directly to the Search Committee. All application materials should be received by **December 30, 2002**.

This position is subject to budgetary approval. Applicants are encouraged to visit our website at: [www.sfu.ca/mbb/](http://www.sfu.ca/mbb/).

*All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority. Simon Fraser University is committed to the principle of equity in employment and offers equal employment opportunities to qualified candidates.*

## SENIOR FACULTY POSITION DEPARTMENT CHAIR Biomolecular Nutrition / Genomics / Metabolomics

Prominent candidates with a Ph.D. or M.D./Ph.D. in biochemistry, physiology or a related discipline are sought whose experience and attributes assure outstanding leadership in emerging areas of basic biomedical research. UW-Madison has a rich history and strong foundation in biochemical and molecular nutrition. This individual will work to identify new opportunities for integrating cell and molecular information with whole body and population-based efforts aimed at understanding the role of diet in normal physiological processes and/or disease states. Priority will be given to candidates whose research takes advantage of the many resources and new initiatives in genomics, proteomics and systems biology at UW-Madison. Consideration will be given to individuals working on nutritionally relevant problems at any phylogenetic level. Formal training in Nutrition is not required.

The successful candidate will also have an aptitude for leadership in teaching and outreach programs and will maintain teaching and research activities. Candidate must have a sustained record of publications and research funding, and a record of scholarly achievement that merits tenure at UW-Madison. Send a cover letter describing your interests in, and qualifications for, this position (PVL # 42756), a CV, a statement of research interests, and three letters of reference to:

**Rick Eisenstein Ph.D.  
University of Wisconsin-Madison  
Department of Nutritional Sciences  
1415 Linden Drive  
Madison, WI 53706**

Respond on or before November 25, 2002 to ensure full consideration but applications may be reviewed until the position is filled. Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalist cannot be guaranteed confidentiality.

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**SENIOR RESEARCH SCIENTIST**, cell biology. Amicus Therapeutics is an early stage biotechnology company engaged in the development of novel therapies for a range of genetic disorders. We are seeking a highly motivated Scientist to lead a research and development team dedicated to discovery and optimization of candidates for preclinical/clinical program. You will have a strong background in cell biology and biochemistry with a Ph.D. and more than five years of experience in drug discovery in the pharmaceutical/biotechnology industry. We offer competitive salaries and full benefits. Send résumé to e-mail: [jobs@amicustherapeutics.com](mailto:jobs@amicustherapeutics.com) or Amicus Therapeutics, Inc., 675 U.S. Highway One, North Brunswick, NJ 08902. Amicus Therapeutics is an Equal Opportunity Employer.

The Department of Health and Human Services is seeking a **DEPUTY ASSISTANT SECRETARY** for science and data policy to take the lead on policy issues or initiatives that are heavily science, technology, and data based including public health issues that involve complex and/or rapidly evolving science and technology. Qualified applicants should possess senior-level experience as a member of a large scientific organization's executive team, providing leadership, strategic direction, and oversight for science, technology, or data policy resources and initiatives related to health or human services. Salary range: \$125,972 to \$138,200 plus benefits. To obtain a copy of the vacancy announcement EX-02-017 including application guidelines, please go to the HHS website: <http://career.psc.gov> or the OPM website: <http://www.usajobs.opm.gov>. Applications must be received no later than 5 p.m. on Friday, November 1, 2002. Equal Opportunity Employer.

#### LIGHT MICROSCOPIST

A technical position is available in the Microscopy Shared Resource Facility at Mount Sinai School of Medicine in New York City. The facility houses confocal multiphoton, fluorescence, and electron microscopes. The successful candidate will assist with light microscopy studies of various biological systems. Duties include instructing and assisting users of the facility, sample preparation, image analysis, and minor equipment maintenance. Applicants should have excellent communication and organizational skills, an understanding of basic laboratory procedures, and the ability to manage a large and varied workload. Qualifications include a degree in biology life sciences and at least two years of experience with laser scanning microscopy. Computer skills are essential. Please mail your résumé to: **Scott Henderson, Ph.D., Director, Microscopy Shared Resource Facility, Box 1007, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029.** We are an Equal Opportunity Employer and foster diversity in the workplace.

#### MEDICAL ADVERTISING WRITERS

You love science but also need to earn a living. Here's a golden opportunity to do both. Robert A. Becker, one of the world's largest health care advertising agencies, is seeking a **SCIENTIST** with a flair for creative writing. The successful candidate will have an advanced degree in the life sciences, superb writing skills, and possess substantial creative ability. Opportunities available in both New York and New Jersey offices. To show that you qualify, please send résumé and writing sample to: **Writer Search, c/o Robert A. Becker, Euro RSCG, 729 Seventh Avenue, New York, NY 10019.** E-mail: [emadigan@rabecker.com](mailto:emadigan@rabecker.com). For information, visit us at website: <http://www.beckernet.com>. Robert A. Becker is an Equal Opportunity Employer.

**A POSTDOCTORAL RESEARCH POSITION** is available in sunny South Carolina to investigate a potential connection between the microtubule motor, cytoplasmic dynein, and colon cancer. A competitive salary is available immediately for up to five years through a newly awarded \$11 million COBRE grant to fund the Colon Cancer Research Center at the University of South Carolina in Columbia. Experiments will involve state-of-the-art biochemical and cell biological approaches to study Lis1 and Nudel, two recently characterized dynein regulators (see *Nature Cell Biol.* 2:767 and *Neuron* 28:697) and the APC- and dynein-binding protein EB1. The position requires a Ph.D. or an equivalent degree. A background in signal transduction, embryonic development, or cytoskeletal studies would be valuable. Please e-mail curriculum vitae with the names and contact information of three references to e-mail: [deannasm@biol.sc.edu](mailto:deannasm@biol.sc.edu).

**Deanna Smith**  
Department of Biological Sciences  
University of South Carolina  
CLS 607  
715 Sumter Street  
Columbia, SC 29208  
Website: <http://www.biol.sc.edu/faculty/smith.html>

#### POSTDOCTORAL FELLOWSHIPS Musculoskeletal Training Program Indiana University School of Medicine

The NIH-sponsored Musculoskeletal Training Program at the Indiana University School of Medicine includes 19 training faculty in the areas of endocrinology, orthopedics, anatomy and cell biology, physiology, bioengineering, genetics, rheumatology, and periodontics. The Program is recruiting Postdoctoral Fellows for three positions available immediately. Candidates must have a Ph.D., M.D., or D.D.S. in any biological or engineering discipline. See our website: <http://www.anatomy.iupui.edu/musculoskeletal/>. Send curriculum vitae and names of three references to: **Dr. David Burr, Department of Anatomy and Cell Biology, MS5035, Indiana University School of Medicine, Indianapolis, IN 46202.** Indiana University is an Affirmative Action/Equal Opportunity Employer; Minorities/Females/Disabled. Minorities and female applicants encouraged to apply.

#### RESEARCH ASSOCIATE

A Research Associate position at the Guthrie Research Institute is available immediately to participate in an NIH-funded project to identify transcription factors that regulate expression of myeloid-specific leukocyte integrin genes and assess their role in myeloid cell differentiation (*Mol. Cell. Biol.* 16:2940-2950, 1996; *J. Biol. Chem.* 272:24038-24050, 1997; *J. Biol. Chem.* 275:8959-8969, 2000). The Institute is located in a rural community within 45 minutes of the Finger Lakes region of New York State and offers a competitive salary and benefits. Additional information regarding this project is available at website: <http://www.guthrie.org/research/scientists/noti.asp>. Candidates with a Ph.D. and experience in molecular and cell biology and/or transgenic mice technology should send their curriculum vitae and the names and addresses of three references to: **Dr. John D. Noti, Laboratory of Molecular Biology, Guthrie Research Institute, Sayre, PA 18840-1692.** E-mail: [jnoti@inet.guthrie.org](mailto:jnoti@inet.guthrie.org).

**A POSTDOCTORAL POSITION** is available immediately in a well-funded research laboratory for highly motivated individual interested in studying human genetic diseases. Systems include stem cell, animal models, and immunohistology. Applicants must have Ph.D. and/or M.D. and a strong background in molecular biology/cell biology. Send curriculum vitae and names of three references to: **Dr. Guanqing Wu, Department of Medicine, Division of Genetic Medicine, Vanderbilt University, 529 Light Hall, 2215 Garland Avenue, Nashville, TN 37232-0275.** E-mail: [guanqing.wu@vanderbilt.edu](mailto:guanqing.wu@vanderbilt.edu).



#### MOLECULAR GENETICS SECTION CHIEF MOLECULAR VIROLOGIST

The Centers for Disease Control and Prevention, National Center for Infectious Diseases, Influenza Branch, Atlanta, Georgia, seeks applications for a senior-level Molecular Virologist with influenza experience to serve as the Chief of the Molecular Genetics Section. Applicants must be qualified to lead a comprehensive molecular research program that investigates various aspects of influenza viruses including antigenicity, structure-function, virulence, and transmissibility. Experience in the application of reverse genetics in the above molecular studies as well as the generation of influenza vaccine candidates is highly desirable. In addition, the individual should bring other molecular skills and interests to the Branch. The Influenza Branch is housed in a state-of-the-art facility with BSL 3+ laboratory capacity. This position serves as one of the key management positions and heads up one of four Sections in the Branch: the Molecular Genetics Section, the Strain Surveillance Section, the Epidemiology Section, and the Immunology and Viral Pathogenesis Section. The position is at the GS-14 level with salary commensurate with experience and with the possible addition of physicians' comparability allowance or a recruitment bonus. For more information, contact: **Dr. Nancy J. Cox; e-mail: [ncox@cdc.gov](mailto:ncox@cdc.gov).** Please submit curriculum vitae and bibliography no later than December 31, 2002, to: **Benita Minor, Centers for Disease Control and Prevention, Human Resources Management Office, 4770 Buford Highway, MS K-15, Atlanta, GA 30341-3724.** E-mail: [bminor@cdc.gov](mailto:bminor@cdc.gov). CDC is an Equal Opportunity Provider and Employer.

#### RESEARCH SCIENTISTS Cyclis Pharmaceuticals, Inc.

Cyclis is recruiting experienced and motivated Research Scientists in molecular biology, cell biology, and protein biochemistry to investigate cell cycle checkpoints, apoptosis, and to develop novel anticancer therapeutics. You will be responsible for executing and analyzing experiments. Qualifications: Ph.D. with more than two years of relevant postdoctoral research experience. Both junior and senior Scientists are encouraged to apply. Candidates should submit their curriculum vitae to:

**Cyclis Pharmaceuticals, Inc.**  
333 Providence Highway  
Norwood, MA 02062

#### MANAGER Physical Biochemistry Facility

Ph.D.-level Scientist sought to manage spectroscopy, calorimetry, sedimentation, light scattering, and stopped-flow instruments for biomolecular analysis. For full details, see website: <http://www.indiana.edu/~bchem/>. Send résumé and three letters of reference to: **Physical Biochemistry Manager Search Committee, c/o Suzanne Schwartz, Myers Hall 150C, 915 East Third Street, Indiana University, Bloomington, IN 47405-7107.** Deadline: December 1, 2002. Indiana University is an Equal Opportunity/Affirmative Action Employer.

#### BIOCHEMIST

A full-time, immediately available Ph.D. Biochemist position in support of the development of novel polyamine and iron chelator therapeutics is available. This individual will develop biochemical procedures including enzyme assays and transport measurements. Familiarity with Michaelis-Menten kinetic analysis and differential centrifugation techniques required. Please send résumé to: **Dr. R.J. Bergeron, University of Florida, P.O. Box 100485, Gainesville, FL 32610-0485.** FAX: 352-392-8406; e-mail: [bergeron@mc.cop.ufl.edu](mailto:bergeron@mc.cop.ufl.edu). No telephone calls, please.

## SK BIO-PHARMACEUTICALS

- **BIOTECHNOLOGY LEADER**, Proteomics, Genomics-Desirable South Korea location; minimum 10 years experience
- **CLINICAL RESEARCH LEADER** Experience in CNS
- **RESEARCH PHARMACOLOGIST**, Neuroscience
- **RESEARCH PHARMACOLOGIST**, Allergy

BS/MS/PhD candidates with a minimum of 3 years pharmaceutical industry experience desired. Qualifying candidates should forward resume/CV with cover letter to:

**Human Resources Department**  
**SK Bio-Pharmaceuticals**  
 140A New Dutch Lane  
 Fairfield, NJ 07004  
 Fax: (973) 227-4488  
 Email: cson@skbp.com  
 www.skbp.com

## Faculty Position Announcement

### John A. Hannah Distinguished Professorship SSC 922 In Land Use Policy

Michigan State University invites applications and seeks nominations for a John A. Hannah Distinguished Professor in Land Use Policy. The position is jointly sponsored by the College of Agriculture and Natural Resources, the College of Natural Science, and the College of Social Science. This is a tenured position with research, teaching and outreach expectations. The individual selected should provide leadership in multidisciplinary efforts focused on integrating land use issues in Michigan and the Great Lakes Region within the context of national and global ecological and economic sustainability.

Michigan State University is searching for an individual with a distinguished record of achievement; a multidisciplinary orientation; an appreciation of a systems approach; a demonstrated sensitivity to land use issues; an ability to advocate for the entire academy as well as its parts and to bring opportunities together in new and effective ways; significant research teaching and outreach capabilities; and a demonstrated commitment to the land grant philosophy. Applicants must have earned a terminal degree in a related field, have expertise in land use issues, have a demonstrated record of obtaining extramural funding, and must be eligible to hold the rank of tenured full professor.

The John A. Hannah Distinguished Professorships were established in 1969 to expand and maintain excellence in the faculty across broad areas of MSU. They are awarded to exceptional scholar-teachers to honor Hannah's 25 years as president of the University. The individual selected for this position would have access to significant operating funds annually for program support.

Beginning date for the John Hannah Distinguished Professorship of Land Use Policy is fall 2003 and applications will be received until December 15, 2002, or until a suitable candidate is identified. Women and minorities are encouraged to apply. Send applications (including three references, CV, and statement of current/future research interests and goals) to:

**Richard E. Groop, Chair**  
**Hannah Land Use Search Committee**  
 315 Natural Science Building  
 Michigan State University  
 East Lansing, MI 48824  
 (517) 355-4651  
 groop@msu.edu

<http://www.msu.edu/unit/facrecds/jobindex.htm>

# DIVERSITY

A Science Advertising Supplement

Issue date ..... 15 November 2002

Reserve space by ..... 29 October 2002

Issues will be sent to the following minority organizations:

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- National Puerto Rican Coalition
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## Department of Organismal Biology and Anatomy University of Chicago

The Department of Organismal Biology and Anatomy is seeking an evolutionary morphologist with expertise in the areas of tetrapod biomechanics and/or physical anthropology who uses experimental approaches to address major questions in vertebrate evolution. The tenure-track position, open at either a junior or senior level, includes instructional and administrative responsibilities in a medical gross anatomy course. We particularly seek individuals interested in establishing intellectual and research collaborations with existing faculty in developmental biology, neurobiology, and paleontology. Review of applications will begin on **December 1, 2002**.

Applicants should send a curriculum vitae, statement of research and teaching interests, up to four reprints, and names and addresses of three referees to: **Morphologist Search Committee, Department of Organismal Biology and Anatomy, University of Chicago, 1027 East 57th Street, Chicago, IL 60637.**

The University of Chicago



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Résumés and cover letters may be submitted to e-mail: [humanresources@probes.com](mailto:humanresources@probes.com).  
Equal Opportunity Employer.

**PH.D. POSITIONS** in drug discovery/development available. Taxolog, Inc., a company based on discovery and development of new anticancer agents from taxane-based analogs (website: <http://www.taxolog.com>), is seeking Scientists to develop and head *in vitro* and *in vivo* investigations in their new Tallahassee, Florida, facility. Therapeutic areas of investigation include cancer, inflammation, autoimmunity, arthritis, psoriasis, polycystic and neurodegenerative diseases, and associated genomic and proteomic approaches to understanding disease processes. Applicants must have a Ph.D. in cancer biology, cell biology, molecular biology, pharmacology, toxicology, or a related scientific area with two or more years of postdoctoral experience (Scientist) and a minimum of five to seven years of experience (Principal Investigator/Project Leader) in a biotechnology/pharmaceutical environment. Taxolog, Inc., offers challenging career opportunities with competitive compensation and benefit packages to qualified applicants.

Position Number 139: **SCIENTIST** or **PRINCIPAL INVESTIGATOR/PROJECT LEADER**, tumor biology and screening/drug discovery. Development of screening assays to measure effects of compounds on cell cycle-mediated events, cytotoxic assays, and measurement of activity of tubulin interactive agents using flow cytometry and confocal microscopy. Perform tumor cell and bone marrow colony-forming assays. Design and validate novel targets to be used in screening assays for oncology and other disease indications. Provide tumor cell lines for *in vivo* propagation.

Position Number 226: **SCIENTIST** or **PRINCIPAL INVESTIGATOR/PROJECT LEADER**, inflammation and signal transduction. Investigate signal transduction mechanisms as they pertain to the effects of compound analogs on regulation and control of inflammatory disease and autoimmune processes. Must be familiar with cytokine cascade activation as a prelude to and consequence of inflammation and/or autoimmunity. Experience with various *in vitro* and experimental *in vivo* models of inflammation including arthritis, psoriasis, multiple sclerosis, and neurodegenerative disease.

Position Number 767: **SCIENTIST** or **PRINCIPAL INVESTIGATOR/PROJECT LEADER**, microarray analyses and proteomics. Explore effects of analog compounds on gene expression and function using microarray analyses and specific cell lines. Identify potential target genes for validation and implementation in screening assays. Have mastery of bioinformatic processes. Investigate and use proteomics technology to explore mechanism(s) of action of analog compounds on various models of disease.

Applicants should send their curriculum vitae, the specific Position Number of interest, and a cover letter describing their experience and research interests to: Taxolog, Inc., Attention: Biology Positions, 3216 Session Road, Suite 100, Tallahassee, FL 32303.

### POSTDOCTORAL TRAINING Computational Genomic Epidemiology of Cancer

This NIH-funded program offers an unprecedented set of instructional and research opportunities to exceptional Postdoctoral candidates in order to promote their careers as independent Researchers at the intersection of genetics, epidemiology, biostatistics, computer science, and cancer research. The Center for Computational Genomics (website: <http://genomics.cwru.edu>) and the Comprehensive Cancer Center (website: <http://cancer.cwru.edu>) serve as conduits for the program, which links together the Departments of Genetics (website: <http://genetics.cwru.edu>), Epidemiology and Biostatistics (website: <http://epbiwww.cwru.edu>), and Computer Science (website: <http://www.eecs.cwru.edu>). Trainees may work in a highly interactive fashion with multiple faculty mentors who have innovative research programs including (1) Evan E. Eichler: gene duplication and DNA transposition in the human genome; (2) Robert C. Elston: statistical methods for the identification of disease-causing genes; (3) Sanford Markowitz: molecular abnormalities, microarrays, and linkage in colon cancer; (4) Joseph H. Nadeau: mouse models of multifactorial diseases; (5) Yoh-Han Pao: data mining and machine learning; (6) S. Cenik Sahinalp: combinatorial pattern matching, data structures, and compression; and (7) John S. Witte: applied and statistical genetic epidemiology of complex diseases.

Training support is for one to three years. Salary is extremely competitive (up to \$65,000 per year), and trainees receive \$30,000 in annual research funds. U.S. citizens, permanent residents, and outstanding foreign candidates are invited to apply by e-mailing: John S. Witte; e-mail: [witte@darwin.cwru.edu](mailto:witte@darwin.cwru.edu) curriculum vitae, three letters of reference, and a statement of research interests. More information about the program can be found at website: [http://cancer.cwru.edu/training/train\\_f.html](http://cancer.cwru.edu/training/train_f.html).

Case Western Reserve University is an Equal Opportunity Employer.

### POSTDOCTORAL POSITION Spinal Cord Neural Plasticity

Position available immediately for biochemistry/molecular biology or physiology Ph.D. to study extracellular proteases (tPA, uPA, and metalloproteases) in aspects of neural plasticity in motor neuron function; survival and axonal regeneration following spinal cord injury; and in motor neuron/muscle atrophy diseases. This is an extension of ongoing studies on proteases in axonal regeneration, growth factor (HGF/c-met) cell signaling, neural development, and synaptic plasticity. Experience in molecular biology and small animal surgery required; electrophysiological recording experience is helpful.

Send curriculum vitae, summary of research interests and experience, and names and addresses of three references to: Nicholas W. Seeds, Ph.D., Professor, Department of Biochemistry and Molecular Genetics B-138, University of Colorado Health Science Center, 4200 East Ninth Avenue, Denver, CO 80262. E-mail: [nicholas.seeds@uchsc.edu](mailto:nicholas.seeds@uchsc.edu).

University of Colorado Health Science Center is an Equal Opportunity/Affirmative Action Employer.

One **POSTDOCTORAL POSITION** in molecular neurobiology is available immediately to study molecular mechanisms controlling vesicular trafficking in neurotransmitter release or in neurodegenerative diseases. For information about our ongoing studies, please visit the website: <http://www.pharm.emory.edu/LI-Lian.htm>. Highly motivated individuals with a recent Ph.D. and experience in molecular biology, cell biology, and/or biochemistry are encouraged to apply. Please send curriculum vitae and names of three references to: Lian Li, Ph.D., Department of Pharmacology, Emory University School of Medicine, Atlanta, GA 30322-3090. E-mail: [lianni@pharm.emory.edu](mailto:lianni@pharm.emory.edu). Emory University is an Equal Employment Opportunity/Affirmative Action Employer.



### CELLULAR MODELING Gene Network Sciences

See 'Cell Biology Gets Plugged In' in *Naturejobs* 417, 27 June 2002. **Ph.D./POSTDOCTORAL** level positions in molecular and cancer biology. Join the multidisciplinary team of Gene Network Sciences in creating the largest dynamic computer simulation of a human cancer cell. Details at website: <http://www.gnsbiotech.com>. Competitive salary and stock options provided.

### POSTDOCTORAL RESEARCH Cellular Neuroscience/Synaptic Plasticity The Pennsylvania State University

A Postdoctoral position is available to study the mechanism underlying synaptic plasticity in brain slices. We are particularly interested in the activity-dependent modulation of glutamate receptor trafficking and targeting to native synapses (see *Nature* 405: 454, 2000; *J. Neurosci.* 22:3881, 2002). A strong background in neurobiology, cell biology, or physical sciences and desire to learn electrophysiology are important. Candidates with prior experience in electrophysiology preferred. Interested applicants with a Ph.D. and/or M.D. should send a brief description of research interests, curriculum vitae, and three reference letters to: Dr. June Liu, Department of Biology, 419 Mueller Laboratory, University Park, PA 16802 U.S.A. E-mail: [sjl16@psu.edu](mailto:sjl16@psu.edu). Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION**, University of North Carolina Chapel Hill: A Postdoctoral position is available to study the mechanism of protein biosynthesis in mammalian mitochondria. Projects include studies on the assembly of the initiation complex, identifying features of the mRNA that are important for initiation, and using proteomic approaches to identify new initiation factors and examining the importance of the mitochondrial inner membrane in initiation. Additional projects include studies on the interaction of mitochondrial elongation factor EF-Tu with the structurally unusual tRNAs found in mammals using mutagenesis and X-ray crystallography. Contact: Linda Spremulli, Department of Chemistry, CB Number 3290, University of North Carolina, Chapel Hill, NC 27599. E-mail: [linda\\_spremulli@unc.edu](mailto:linda_spremulli@unc.edu).

### NEUROBIOLOGIST

**POSTDOCTORAL FELLOW** position available at the Institute of Physiology, University of Basel, Switzerland, to study mechanisms of retinal neuronal survival using various approaches including knockout animal models. Candidate must have a Ph.D. or M.D. education and be skilled in molecular and cellular biology. Experience in animal models is highly desirable. Candidates should submit updated curriculum vitae and names of three references to: Dr. Uwe Otten, Institute of Physiology, University of Basel, Vesalgasse 1, CH-4051, Basel/Switzerland. E-mail: [uwe.otten@unibas.ch](mailto:uwe.otten@unibas.ch); FAX: +41 61 267 35 59.

**POSTDOCTORATES**, plant molecular biology and genomics, University of Tennessee, Knoxville. Opportunities in two research programs are available. Send curricula vitae to specific Investigators. (1) Transgenic plant and molecular biology research on inducible promoters for plant disease and xenobiotics. Contact: Neal Stewart; e-mail: [nealstewart@utk.edu](mailto:nealstewart@utk.edu). (2) Dogwood gene discovery/genomics and transformation research for disease resistance and bract color. Contact: Bob Trigiano; e-mail: [rtrigian@utk.edu](mailto:rtrigian@utk.edu). The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/Americans With Disabilities Act/Age Discrimination in Employment Act Institution in the provision of its Education and Employment programs and services.

## ANNOUNCEMENTS

### Department of Health and Human Services National Institutes of Health National Cancer Institute

The National Institute of Allergy and Infectious Diseases (NIAID) and the National Cancer Institute (NCI) invite the submission of proposals to:

#### NIH Inter-Institute Program for the Development of AIDS-Related Therapeutics (IIP)

IIP will use its contract resources to facilitate the preclinical development of:

(1) Therapies for the treatment of HIV disease, AIDS-associated malignancies, opportunistic infections and tuberculosis associated with AIDS

(2) Microbicides-based prevention strategies for HIV

**IIP does not provide funding to investigators.** Successful applicants instead will receive products or information generated by NIH contractors to aids applicant's development of novel therapeutics toward clinical trial.

- The next deadline for receipt of applications is **December 1, 2002**; prior to that date (no later than November 1, 2002) a Letter of Intent must be submitted to the Inter-Institute Program Coordinator.

- Further information about this program can be found at <http://dtp.nci.nih.gov/>

- Inquiries can be made to the Inter-Institute Program Coordinator by telephone at 301-496-8720 or by email to [iip@dtpax2.ncifcrf.gov](mailto:iip@dtpax2.ncifcrf.gov)



## GRANTS

### Creating the future of biotech—Together

#### Invitrogen's Research Tools Development Grants Program

provides funding for investigators developing innovative tools for use in life science research, including investigators working in academics, not-for-profit institutions, and for-profit companies. Total funding is US\$5 million per year, with annual individual awards of up to US\$100,000. Grants are provided quarterly; each quarter focuses on a specific field of interest.

Fourth quarter 2002 funding is for the area of **amplification, labeling and quantitation** of nucleic acids—including proposals for the *in vitro* or *in vivo* applications of detection, expression, hybridization, microarrays, and screening. Deadline for full Grant Proposals is December 1. A preproposal is required prior to submitting a Grant Proposal. **For more information, visit [www.invitrogen.com](http://www.invitrogen.com), e-mail [grants@invitrogen.com](mailto:grants@invitrogen.com), or call 800 955 6288, ext. 66140.**

1600 Faraday Ave., Carlsbad, CA 92008 USA  
P: 760 476 6140 F: 760 602 6563  
[www.invitrogen.com](http://www.invitrogen.com)



#### THE UNIVERSITY OF CALIFORNIA AT BERKELEY

##### Departments of Molecular and Cell Biology and Integrative Biology Faculty Position in Genetics and Development, Genomics, Bioinformatics

The Departments of Molecular and Cell Biology, and Integrative Biology at the University of California, Berkeley are seeking candidates for a joint tenure-track position at the Assistant Professor level in the area of genetics, development and evolution, pending budgetary approval (ID #718). Applicants with a Ph.D. or M.D. and research record in any area of genetics and development will be given serious consideration. We are particularly interested in candidates who apply experimental or computational genomics and/or evolutionary approaches to the study of animal development, who would join an interdisciplinary group of evolutionary, developmental and computational biologists in the newly formed Center for Integrative Genomics. Candidates must have a strong interest in undergraduate and graduate teaching and will be expected to contribute to teaching in genetics, development and evolution or computational biology. Interested applicants should send a CV, bibliography, brief description of research accomplishments, statement of research objectives and teaching interests and selected reprints to the address below, and should arrange to have three letters of reference sent to the same address. Closing date for receipt of applications is **January 15, 2003**. Applications should be sent to: **Chair, Genetics, Development and Evolution Search #718, Department of Molecular and Cell Biology, University of California, Berkeley, 401 Barker #3202, Berkeley, CA 94720-3202.**

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



**The Division of Hematology and Oncology and the Gynecologic Oncology Research program at the Massachusetts General Hospital is seeking a postdoctoral fellow with an interest in molecular mechanisms of carcinogenesis, drug resistance, apoptosis, and/or molecularly targeted therapeutics.**

Qualified candidates should have a PhD, MD, or equivalent degree and committed to at least a two-year period of intensive research. A background in molecular biology, molecular pathology, or human tumor systems is preferable but not required. Interested applicants should send CV and three references to [mseiden@partners.org](mailto:mseiden@partners.org).

## COURSE

Smart  
engineers  
and  
scientists  
often  
become  
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*"A mind is a terrible thing to waste"*



## UNDERGRADUATE SCIENCE RESEARCH SCHOLARSHIP AWARDS

- 15 Awards Annually
- Scholarships up to \$25,000
- Two Summer Internships at a Merck Research Facility

### An applicant must:

- Be a full-time student at any four-year college or university
- Have junior year academic status
- Major in a life or physical science (first professional degrees excluded)
- Have a minimum cumulative GPA of 3.3 (4.0 point scale)

## GRADUATE SCIENCE RESEARCH DISSERTATION FELLOWSHIPS

- 12 Fellowships Annually
- Fellowship Stipends up to \$30,000
- Department Grants of \$10,000
- Support for 12-24 months

### An applicant must:

- Be enrolled full-time in a Ph.D. or equivalent doctoral program in a biomedical life or physical science
- Be engaged in and within 1-3 years of completing dissertation research

## POSTDOCTORAL SCIENCE RESEARCH FELLOWSHIPS

- 10 Fellowships Annually
- Fellowship Stipends up to \$55,000
- Department Grants of \$15,000
- Support for 12-24 months

### An applicant must:

- Hold a Ph.D. or equivalent degree in a biomedical life or physical science
- Be appointed as a postdoctoral fellow by the end of the year 2003 at an academic or non-academic research institution (private industrial laboratories are excluded)

**Applicants must be African American (Black, non-Hispanic), U.S. citizens or permanent residents, and attend an institution in the U.S.A. Applications must be postmarked by December 16, 2002**

For application forms and more information, please contact your department chairperson or Jerry L. Bryant, Ph.D., at the **United Negro College Fund**, 8260 Willow Oaks Corporate Drive, P.O. Box 10444, Fairfax, VA 22031-4511, by fax (703) 205-3574, by e-mail at [uncfmerck@uncf.org](mailto:uncfmerck@uncf.org), or visit our website at [www.uncf.org/merck/](http://www.uncf.org/merck/)

## GRANTS

**Funding Immediately Available**

### ATM BIOCHEMISTRY

- Up to \$75,000 per project per year
- Rapid, 30-day peer review decision process
- Early start date possible
- Application process not too burdensome

Funding is available to support truly novel research projects aimed at understanding the molecular basis of ataxia-telangiectasia (A-T). A major objective of grant awards will be to unravel the functional role of the ATM protein, especially in the development and maintenance of the brain, in collaboration with other labs that have already developed reagents such as ATM knock-out mice, monoclonal antibodies and biochemical assays for ATM activity.

Scientific excellence, originality, investigator competence and direct relevance to ataxia-telangiectasia are the paramount criteria in award decisions. Projects with potential for identifying therapeutic targets will be given the highest consideration.

Competitive awards for one- and two-year projects will be funded up to a total direct cost of \$75,000 per year. No administrative overhead or fixed costs are supported.

All applications receive quick reviews and decisions are usually communicated to applicants within 30 days after proposals are received. Grant periods can begin as early as 15 days after grants are awarded.

For proposal guidelines, please visit:  
[www.atcp.org/Research/grant\\_guidelines.htm](http://www.atcp.org/Research/grant_guidelines.htm)



668 South Military Trail • Deerfield Beach, Florida 33442, USA  
Telephone: (954) 481-6611 • Fax: (954) 725-1153  
Email: [grants@atcp.org](mailto:grants@atcp.org) • [www.atcp.org](http://www.atcp.org)

## COURSE

### The Santa Fe Institute

#### 2003 Complex Systems Summer School

June 8 to July 5, 2003, in Santa Fe, New Mexico, USA

Held at the campus of St. John's College

Administered by the Santa Fe Institute

**Director:** Jonathan Shapiro, University of Manchester

**Laboratory Director:** Ray Goldstein, University of Arizona

An intensive introduction to complex behavior in mathematical, physical, living, and social systems for graduate students and postdoctoral fellows in the sciences and social sciences. Open to students in all countries. Students are expected to attend the school for the full four weeks and to participate in group or individual projects. No tuition is charged. Some support for housing and travel expenses is also available.

Week one will consist of an intensive series of lectures and laboratories introducing foundational ideas and tools of complex systems research. The topics will include nonlinear dynamics and pattern formation, statistical mechanics and stochastic processes, information theory and computation theory, adaptation and evolution, computer modeling tools, and applications of these core topics to various disciplines. Weeks two and three will consist of lectures on current research in complex systems. Week four will be devoted to completion and presentation of student projects.

Applications are solicited from graduate students and postdoctoral fellows in any discipline. Some background in science and mathematics at least at the undergraduate level is required (including calculus and linear algebra).

**Application instructions:** Provide a current resume with publications list (if any), statement of current research interests, comments about why you want to attend the school, and two letters of recommendation from scientists who know your work. Include your e-mail and fax number, and specify whether you wish to be considered for a travel scholarship. On-line submission of application materials is strongly encouraged; visit <http://www.santafe.edu/csss03.html> for instructions. Application materials may also be sent via postal mail or courier to:

Summer School  
Santa Fe Institute  
1399 Hyde Park Road  
Santa Fe, NM 87501 USA

All application materials, including letters of recommendation, must be postmarked or electronically submitted no later than **January 24, 2003**.

*Women, minorities, and students from developing countries are especially encouraged to apply.*

For further information, visit <http://www.santafe.edu/csss03.html> or e-mail [summerschool@santafe.edu](mailto:summerschool@santafe.edu).





# Cold Spring Harbor Laboratory



## 2003 Meetings

### The Biology of DNA

February 26 - March 2  
David Stewart, Jan Witkowski

### Vector Targeting Strategies for Gene Therapy

March 20 - 23  
David T. Curiel, Wayne Marasco, Stephen Russell

### Learning & Memory

April 9 - 13  
Jack Byrne, Joseph LeDoux, Erin Schuman

### Ubiquitin Family

April 23 - 27  
Ray DeShaies, Mark Hochstrasser, Peter Howley

### Telomeres & Telomerase

April 30 - May 4  
Titia De Lange, Carol Greider, Vicki Lundblad

### Genome Informatics

May 7 - 11  
Ewan Birney, Suzanna Lewis, Lincoln Stein

### Protein Phosphorylation & Cell Signaling

May 14 - 18  
Sara Courtneidge, Ben Neel, Nick Tonks

### Retroviruses

May 20 - 25  
Suzanne Sandmeyer, Wes Sundquist

### 68th CSHL Symposium:

#### The Genome of *Homo Sapiens*

May 28 - June 2, 2003  
Jane Rogers, Eddy Rubin,  
Bruce Stillman, David Stewart

### Yeast Cell Biology

August 12 - 17  
Brenda Andrews, Chris Kaiser, Mark Winey

### Eukaryotic mRNA Processing

August 20 - 24  
Elisa Izaurralde, Timothy Nilsen, Donald Rio

### Mechanisms of Eukaryotic Transcription

August 27 - 31  
Joan Conaway, Richard Treisman, Jerry Workman

### Eukaryotic DNA Replication

September 3 - 7  
Thomas Kelly, Bruce Stillman

### Microbial Pathogenesis and Host

Response September 10 - 14  
Paula Sundstrom, Ronald Taylor, James Slauch

### Programmed Cell Death

September 17 - 21  
Hermann Steller, Craig Thompson, Junying Yuan

### Neurobiology of *Drosophila*

October 1 - 5  
Thomas Schwarz, Jessica Treisman

## 2003 Courses in Neuroscience

### Cell & Developmental Biology Of *Xenopus*

April 5 - 15  
Ken Cho, Jan Christian

### Structure, Function & Development

Of The Visual System June 4 - 17  
Kim McAllister, Martin Usrey

### Physiological Approaches To Ion

Channel Biology June 4 - 24  
Michael Hausser, Nelson Spruston

### Developmental Neurobiology

June 20 - July 3  
Ben Barres, Joshua Sanes

### Advanced Techniques In Molecular

Neuroscience June 27 - July 17  
Lee Henry, Kirk Jensen, Cary Lai, Daniel Lavery

### Neurobiology Of *Drosophila*

June 27 - July 17  
Steven De Belle, David Van Vactor

### *C. elegans*

July 22 - August 11  
Bruce Bowerman, Andrew Chisholm

### Imaging Structure And Function In The

Nervous System July 22 - August 11  
Fritjof Helmchen, Timothy Murphy

### Molecular Mechanisms Of Human

Neurological Diseases July 23 - 29  
Adriano Aguzzi, Sam Gandy, John Hardy

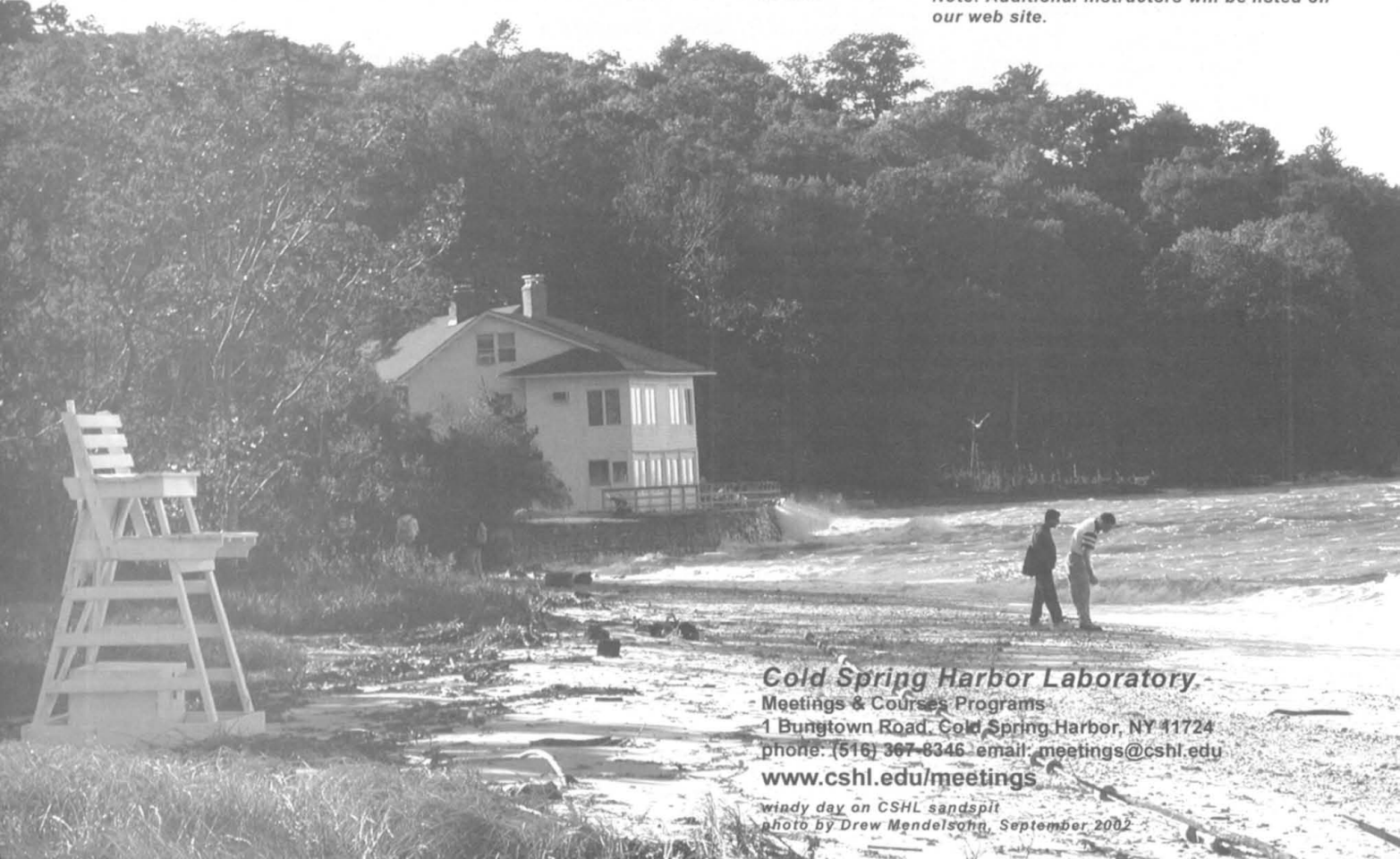
### Workshop on Magnetoencephalography

July 30 - August 4

### Cellular Biology of Addiction

August 5 - 11  
Bertha Madras

*Note: Additional Instructors will be listed on our web site.*



## Cold Spring Harbor Laboratory

Meetings & Courses Programs

1 Bungtown Road, Cold Spring Harbor, NY 11724

phone: (516) 367-8346 email: [meetings@csHL.edu](mailto:meetings@csHL.edu)

[www.csHL.edu/meetings](http://www.csHL.edu/meetings)

windy day on CSHL sandspit

photo by Drew Mendelsohn, September 2002

## POSITIONS OPEN



### CEDARS-SINAI MEDICAL CENTER. POSTDOCTORAL RESEARCHER POSITION

Maxine Dunitz Neurosurgical Institute

We are seeking applications for two Postdoctoral Fellowship positions for NIH-funded projects. Candidates must have interest and experience in neuroscience and molecular biology. Projects include investigation of potassium channels in BBB permeability regulation, drug delivery to abnormal brain regions, and DNA array studies.

Emphasis will be placed on signal transduction. Techniques offered include tissue culture; ion channel studies; microsurgery on rodents; immunohistochemistry; immunoprecipitation; and protein knock-down using antisense methods or gene transfer, radioligand uptake, and cell survival. Applicants must have a Ph.D. in neurobiology, cell biology and/or molecular biology, and have published their work in peer-reviewed journals. Please send curriculum vitae including contact information for three references to: Cindy Mizuno, Cedars-Sinai Medical Center, 8723 Alden Drive, Number 110, Los Angeles, CA 90048. E-mail: mizunoc@cshs.org.

### POSTDOCTORAL FELLOWS/SCIENTIST

Several positions are immediately available to apply contemporary and advanced molecular genetic techniques to stem cells, infectious disease, and cancer research. Examples of our recent research can be found in *PNAS* 97:2852, 2000; *JBC* 276:33129, 2001; *The Scientific World* 2:684, 2002. Investigators with a Ph.D. in molecular biology are encouraged to apply. Selected individuals will be compensated with highly competitive salary and fringe benefits. To apply, please send three recommendation letters directly to: Peter M. C. Wong, Ph.D., Department of Pathology and Laboratory Medicine, Fels Institute for Cancer Research and Molecular Biology, Temple University School of Medicine, 3307 North Broad Street, AHB, Room 552, Philadelphia, PA 19140. Telephone: 215-707-8361; FAX: 215-707-8351; e-mail: petermcw@aol.com or peter.wong@temple.edu. Temple University is an Equal Employment Opportunity/Minorities/Females/Disabled/Veterans.

**POSTDOCTORAL POSITIONS** in the Division of Molecular Medicine, Department of Anesthesiology, University of California, Los Angeles. Positions are available to study cell biology and hormonal regulation of ion channels and signaling pathways in smooth muscle and heart cells during pregnancy. The laboratory has a strong program funded by NIH grants and uses a multidisciplinary approach involving microarray analysis, molecular biology, biochemistry, immunocytochemistry, electrophysiology, and high-resolution confocal microscopy. Website: <http://www.anes.ucla.edu/~estefani/>. Applications with curriculum vitae and e-mail addresses of three references to: Dr. Enrico Stefani, UCLA, Division of Molecular Medicine, Department of Anesthesiology, Box 957115, Los Angeles, CA 90095-7115. E-mail: estefani@ucla.edu. UCLA is an Equal Opportunity Employer.

**POSTDOCTORAL FELLOWS** in biophysics/bioengineering to develop image processing and data analysis methods for fluorescence microscopy (including single molecule microscopy) and SPR experiments (with Professor R. J. Ober; EE, University of Texas-Dallas). These will be applied to ongoing studies on T cell recognition. Background in biophysics, engineering, or mathematics is desirable. Please send curriculum vitae, details of three references to: Professor E. S. Ward, Center for Immunology, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75390-8576 U.S.A. E-mail: sally.ward@utsouthwestern.edu. UT Southwestern is an Equal Opportunity Employer.

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH ASSOCIATES

The Center for Bio/Molecular Science and Engineering at the Naval Research Laboratory has openings for Postdoctoral Researchers. Positions are available in the areas of (1) postsynthetic chemical modifications of DNA/RNA, (2) cloning and manipulation of bacterial/viral genetic material, (3) fabrication of 3-D microfluidics components in plastic, (4) organic monolayer deposition on liquid crystal surfaces and interface characterization, (5) self-assembly of biomolecular materials, (6) solid phase DNA/RNA synthesis, (7) design and characterization of kinesin/microtubule-based nanoassembly line, and (8) mechanical and electropotential studies on liquid crystal elastomers and gels. CBMSE is one of the nation's leading interdisciplinary research organizations applying modern techniques from the areas of chemistry, physics, molecular biology, materials science, and chemical engineering to a variety of studies. Starting postdoctoral salaries are \$55,000 per year, and opportunities are excellent for transition to permanent status after a successful postdoctoral tenure. Candidates must have received a Ph.D. in a relevant field within the past five years. Excellent written and oral communication skills, computer knowledge, and a demonstrated ability to interact with a multidisciplinary team are required. Postdoctoral positions are available through either the NRC Research Associateship Program or the ASEE/ONR Postdoctoral Fellowship Program. U.S. citizenship or permanent residency is required. Interested persons should send or e-mail a résumé including a list of publications and names and telephone numbers of three references to: Ms. Ena Barts, Code 6930, Naval Research Laboratory, Washington, DC 20375. E-mail: enb@cbmse.nrl.navy.mil. Please indicate area of interest from above. NRL is an Equal Opportunity Employer.

The University of Georgia Complex Carbohydrate Research Center (CCRC) has an opening for a **POSTDOCTORAL RESEARCH ASSOCIATE** to study the structure and metabolism of the polysaccharide xyloglucan in the primary cell walls of higher plants. The position offers an opportunity to work in a multidisciplinary environment using state-of-the-art spectroscopic methods to isolate and characterize xyloglucans and xyloglucan-modifying enzymes from various plant tissues. Previous training in structural analysis of polysaccharides and enzymology of polysaccharide metabolism is desirable. Salary will be determined by experience. Send letter of application, names and addresses of four references, and complete curriculum vitae to: Dr. William S. York, CCRC, University of Georgia, 220 Riverbend Road, Athens, GA 30602-4712 U.S.A. E-mail: will@ccrc.uga.edu. Position open until filled. An Equal Opportunity Employer/Affirmative Action Institution.

### POSTDOCTORAL POSITIONS Washington University Pain Center

Postdoctoral positions are available to study the dorsal spinal cord development. Projects involve differential screening of dorsal horn genes and generation of knockout mice. A strong background in molecular biology is preferred. For information, see website: <http://dbbs.wustl.edu/RIB/Chen.html>. Send curriculum vitae to e-mail: chenz@morpheus.wustl.edu. Dr. Zhou-Feng Chen, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, MO 63110 U.S.A.

### LEVINE FELLOWSHIP

**POSTDOCTORAL FELLOWSHIP** available immediately to investigate the molecular microbiology of the skin. Applicants should have an M.D. or Ph.D. degree and be a citizen or permanent resident of the United States. Please send your curriculum vitae and the names and telephone numbers of three references to:

Martin J. Blaser, M.D.

Professor of Medicine and Microbiology  
New York University School of Medicine  
550 First Avenue OBV A606  
New York, NY 10016

## POSITIONS OPEN

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[www.training.nih.gov](http://www.training.nih.gov)

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

### POSTDOCTORAL POSITION Cellular Neurophysiology

Our research at the OHRI, affiliated with the University of Ottawa, focuses on intrinsic and synaptic properties; transmitter-receptor interactions; ligand- and voltage-gated ion channels; second messengers and electrotonic coupling in mammalian hypothalamic and spinal cord neurons engaged in pathways regulating neuroendocrine, sympathetic, and circadian functions. Projects utilize single and dual patch clamp techniques assisted with near-infrared videomicroscopy, single cell PCR, confocal and multiphoton imaging, and intracellular and retrograde tracers in hypothalamic and spinal cord splices. For details, check our laboratory at website: <http://www.ohri.ca>. Requires M.D. or Ph.D. degree, experience with *in vitro* slice and/or dissociated cell preparations, and patch clamp recording techniques. Salary commensurate with experience and Canadian Institutes of Health Research guidelines. E-mail: lprenaud@ohri.ca; FAX: 613-761-5330 covering letter, curriculum vitae and names of three references to: Dr. Leo Renaud, Neurosciences, Ottawa Health Research Institute, 725 Parkdale Avenue, Ottawa, Ontario K1Y 4E9 Canada.

### POSTDOCTORAL POSITION Developmental Neuroscience

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

### POSTDOCTORAL/RESEARCH FACULTY Structural Biology

Two positions are available immediately to study (1) subunit folding and dynamics in mechanisms of virus assembly and (2) structural determinants of recognition of DNA-protein complexes. Research involves the use of Raman and UV-resonance Raman spectroscopy to probe biomolecular structure/function relationships. Experience in protein expression systems or protein/DNA isolation and characterization is required. English proficiency is essential as some supervision of graduate students is expected. Please send résumé and have three letters of reference forwarded to: Dr. George J. Thomas, School of Biological Sciences BSB403, University of Missouri-Kansas City, 5100 Rockhill Road, Kansas City, MO 64110. UMKC is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

### POSTDOCTORAL AND RESEARCH ASSOCIATE POSITIONS HIV Biochemistry

Several positions are available in the laboratory of **Dr. Michael A. Parniak** in the Center for Viral Diseases, University of Pittsburgh, to participate in studies concerning the development and characterization of inhibitors of HIV ribonuclease H, an underexplored target for chemotherapy. The laboratory is located in the Center for Viral Diseases, a newly established, well-funded, and well-equipped research unit at the University of Pittsburgh School of Medicine. Candidates must have a Ph.D. in chemistry or biochemistry and a demonstrated record of research accomplishments. Candidates must be highly motivated, possess excellent oral and written communication skills, be able to work in a multidisciplinary team environment, and be able to oversee several research projects. Salaries will be highly competitive and commensurate with experience. Scientists showing exceptional promise may be provided with the opportunity for tenure-track positions. Qualified applicants are invited to send curriculum vitae, a description of research accomplishments and interests, and the names and contact information of three references by e-mail to: **Dr. Michael A. Parniak**; e-mail: [parniakm@msx.dept-med.pitt.edu](mailto:parniakm@msx.dept-med.pitt.edu).

### POSTDOCTORAL POSITIONS Proteomics of the Eukaryotic Transcription Machinery Vanderbilt University Medical Center

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

**POSTDOCTORAL and RESEARCH ASSISTANT** positions available in the Department of Cellular and Structural Biology at the University of Texas Health Science Center in San Antonio.

We use genetics, molecular biology, and biochemistry to study development and aging in *C. elegans*. The successful applicants will be highly motivated, have excellent organizational skills, and work well with the others in the group. Publication in international journals is a prerequisite for Postdoctoral applicants. Send a brief letter stating your research interests, complete curriculum vitae, and the names of three references and contact information (including e-mail addresses) of three references to: **Dr. Pamela L. Larsen**, Department of Chemistry and Biochemistry, 607 Charles E. Young Drive East, Box 951569, Los Angeles, CA 90095-1569. E-mail: [larsen@chem.ucla.edu](mailto:larsen@chem.ucla.edu). Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS** available to study the genetics, molecular biology, and biochemistry of aging with emphasis on yeast (*Exp. Gerontol.* 37:1023, 2002; *Genetics* 162:73, 2002; *Annu. Rev. Microbiol.* 56:769, 2002). Recent Ph.D.s with proficiency in molecular techniques encouraged to apply. Send complete curriculum vitae including bibliography and e-mail addresses of three references to: **S.M. Jazwinski**, Department of Biochemistry, Louisiana State University Health Sciences Center, 1901 Perdido Street, New Orleans, LA 70112. E-mail: [sjzawi@lsuhsc.edu](mailto:sjzawi@lsuhsc.edu). Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### PLANT CONSERVATION BIOLOGY

The Department of Biological Sciences, University of Denver, and the Denver Botanic Gardens are offering a joint position in plant conservation biology. This tenure-track appointment will be at the **ASSISTANT** or **ASSOCIATE** level. We seek candidates in plant conservation biology/ecology with a minimum of three years of experience beyond the postdoctoral level. The successful candidate will have a one-half position in the Department of Biological Sciences and will be expected to supervise M.S. and Ph.D. students and become involved in graduate and undergraduate teaching. The one-half position at Denver Botanic Gardens will involve leading, overseeing, and supporting a small but active research and herbarium staff. Both institutes expect the successful candidate to develop her/his own funded research program relating primarily to conservation of plants in the Rocky Mountain Region. Visit websites: <http://www.du.edu/biology/> and <http://www.botanicgardens.org> for information on the Department and the gardens. Applicants should submit curriculum vitae, two recent publications, statements of teaching and research interests, and arrange to have three letters of recommendation sent to: **Plant Conservation Biology Search Chair**, Department of Biological Sciences, University of Denver, Denver, CO 80208. Screening of applicants will begin on December 9, 2002. The position begins September 1, 2003. The University of Denver and Denver Botanic Gardens are committed to enhancing the diversity of their faculty and staffs and encourage applications from women, minorities, people with disabilities, and veterans. The University of Denver and the Denver Botanic Gardens are Equal Employment Opportunity/Affirmative Action Employers.

### POSTDOCTORAL POSITION

Postdoctoral Research Fellow position is available immediately in the Laboratory of **Edouard Cantin**, Ph.D., at Beckman Research Institute of the City of Hope, to study innate resistance to HSV infection. This NIH-funded project involves mapping and isolation of genes that determine resistance of HSV using a variety of approaches including genetic analysis of murine inbred strains, DNA microarray analysis, and immunological characterization of resistant and susceptible strains.

Ph.D. with a strong background in genetics, molecular immunology, or virology is required. Qualified applicants should submit a cover letter, curriculum vitae, and names and addresses of three references to: c/o **Ileana Abich**, Needleman Building, Room 220, City of Hope, 1500 East Duarte Road, Duarte, CA 91010. FAX: 626-930-5300; e-mail: [iabich@coh.org](mailto:iabich@coh.org).

City of Hope is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

## GLOBAL OPPORTUNITIES

### GROUP LEADERS

#### Laboratory for Cell Dynamics (LCD) University of Science and Technology of China

LCD was established in 1999 by the joint support from Chinese Academy of Science, Chinese Ministry of Education, and Natural Science Foundation of China. Over the last two years, LCD has set up the state-of-the-art instrumentation including MALDI-TOF mass spectrometer and two-photon excitation microscope.

LCD invites applications for Group Leader positions, **ASSOCIATE** or **FULL PROFESSORSHIP**, in the areas of proteomics, molecular genetics, cell and developmental biology, and neurobiology. Generous start-up fund, competitive salary, family housing, and ample laboratory space will be provided. Applicants should possess a Ph.D. degree and record of success. Interested candidates should send curriculum vitae, summary of research interests and accomplishments, and names of three references to: **Ms. Dongmei Wang**; e-mail: [wangdm@ustc.edu.cn](mailto:wangdm@ustc.edu.cn).

## POSITIONS OPEN

**POSTDOCTORAL POSITION** in neuroscience. NIH funded. Exciting opportunity to participate in a multidisciplinary project to study ion channel and synaptic mechanisms regulating the excitability of central neurons underlying the control of autonomic and neuroendocrine functions. M.D. or Ph.D. in related field required. Expertise in patch clamp techniques, fluorescent imaging, immunohistochemistry, and/or *in situ* hybridization is preferred. Review of applications to begin on November 6, 2002. For additional details, see website: <http://www.med.wright.edu/pharm/stern/index.html>. Send curriculum vitae and a list of three references to: **Dr. Javier Stern**, M.D., Ph.D., Department of Pharmacology and Toxicology, Wright State University, 3640 Colonel Glenn Highway, Dayton, OH 45401. E-mail: [javier.stern@wright.edu](mailto:javier.stern@wright.edu). An Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL RESEARCH POSITIONS** available immediately to study the critical role of the cellular process of autophagy and beclin 1 autophagy gene product in development, apoptosis, breast cancer, and host defense. Approaches include molecular genetic, cell biological, and knockout strategies in mice and in *C. elegans*. Applicants should have an M.D. or Ph.D. in a related area. Send curriculum vitae and statement of research interests to: **Beth Levine**, M.D., Department of Medicine, Columbia University, P and S 8-463, 630 West 168th Street, New York, NY 10032. E-mail: [levine@cancercenter.columbia.edu](mailto:levine@cancercenter.columbia.edu). Columbia University is an Affirmative Action/Equal Opportunity Employer.

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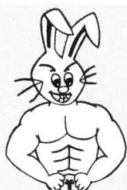
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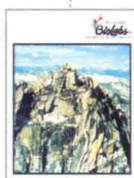
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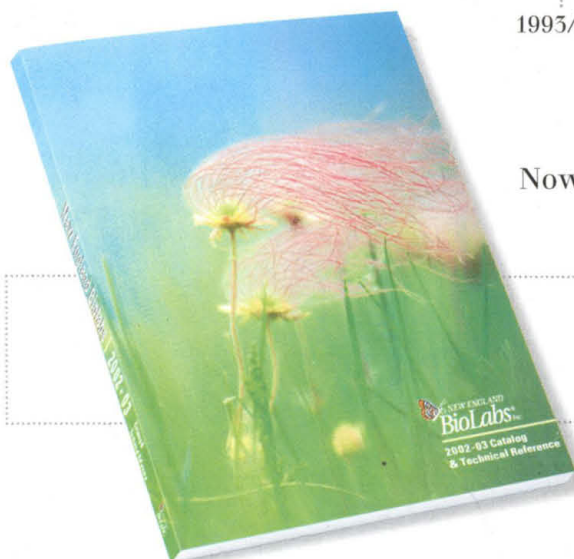
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