

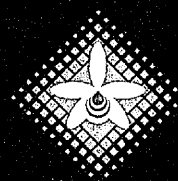
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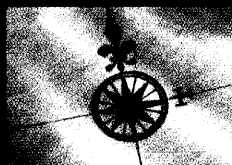
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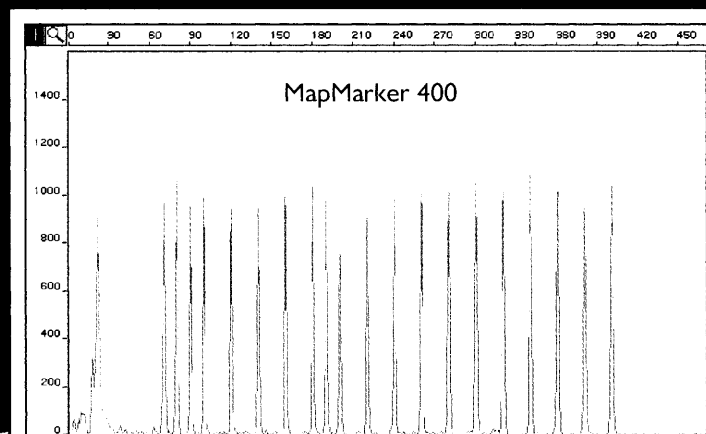


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## PIX TOOLS

ImagePro Plus from Media Cybernetics is one of a family of image processing and analysis programs. A simpler and less flexible version (ImagePro Express) is also available. This review is focused on the Plus version

and differences in the Express version will be highlighted where appropriate. Both programs are protected with a "hardware key."

The starting point for both programs is the image database that contains images acquired from a camera, scanner, or other source. Tools for querying the database are provided to allow retrieval of images by using a variety of tags. Once an image is selected and displayed, a tool bar at the top of the screen allows easy access to most program functions. Tools are conveniently grouped and are accessible through drop-down menus. The first group of tools provides for selection of areas of interest (AOIs) within an image and include regular geometric shapes, such as rectangle and ellipse. A "magic wand" automatically selects irregularly shaped features.

The second set of tools is for image manipulation and includes contrast enhancement, histogram equalization, background correction or subtraction, and fast Fourier transformation (FFT). Image arithmetic, image segmentation, and pseudocoloring are also available, and there is considerable flexibility in choice of parameters. Multiple levels of "undo" function allow for extensive backtracking. The program's dialog box shows a thumbnail of the image and the effect of a particular operation before the user applies it to the whole image. Line profiles through regions of the image and surface plots can also be easily calculated. The latter can be rotated, tilted, and shaded to give the best representation. ImagePro Express has fewer tools and options; for example, there is no FFT or image arithmetic, but the program layout is essentially the same.

One last set of tools performs geometric and intensity measurements, including automatic counting and measuring of objects (not in ImagePro Express) and determination of distance, angle, and thickness. If the same operations or measurements are to be made on a series of images, a macro language allows for ready automation (not in ImagePro Express). The macro language is very rich and can be either coded directly or recorded via a series of operations from within the program.

In addition to its "local" features, the program is also well integrated with the Internet. Images can be sent directly from within ImagePro. The Plus version can also establish a client-server relationship with a remote image database, as well as "conference" using Internet Relay Chat.

In summary, ImagePro Plus offers users most of the common image processing and analysis tools they are likely to need with a clean and easy-to-learn interface. The Express version, while more limited in its functionality, still provides a range of useful tools.

—Tony Cass

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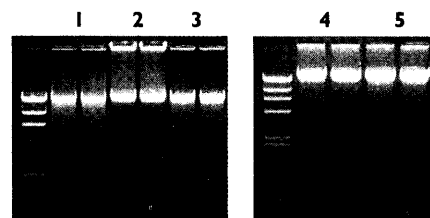
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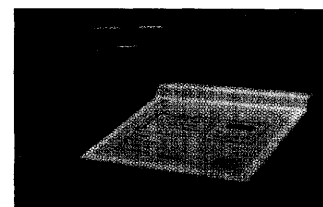
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The underlying combined research in a broad range of scientific disciplines including, among others, medicinal chemistry, genomics, proteomics, pharmacogenetics, toxicogenetics, pharmacokinetics, toxicokinetics, evidence-based medicine, molecular epidemiology, immunology, statistics, and bioinformatics defines the new research field of theragenomics. Theragenomics reflects the paradigm of behavior of a human individual when exposed to a drug or any other chemical agent.

TheraStrat is an early-stage company with the primary mission to develop sets of theragenomic tools, which in concert will help to provide personalized drug safety to individual patients. Eventually, these tools will allow to select, among the drugs available for an intended therapeutic intervention, the right drug (i.e. essentially free of serious ADRs) for the individual patient or to exclude individuals from a specific health threatening chemical risk.

Towards that end, TheraStrat is developing SafeBase™, a sophisticated postgenomic knowledge management and discovery system on the molecular and genetic basis of serious ADRs with a focus on those risk factors critical for the prediction of serious ADRs towards a given drug in individual patients. Future products will include SafePat™ with diagnostic sets of fingerprints of risk factors predictive for ADRs in individual patients.

TheraStrat is looking for partners and collaborations.

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FOCUS ON CAREERS

# Genetics

PERIOD OF TRANSITION

by Peter Gwynne

**GENETICS IS UNDERGOING A TRANSITION FROM A FOCUS ON THE IMPACTS OF SINGLE GENES TO STUDIES THAT INVOLVE MULTIPLE GENES. TO THRIVE IN THIS NEW ENVIRONMENT GENETICISTS SHOULD WORK ON THEIR COMPUTATIONAL SKILLS AND BECOME COMFORTABLE WITH MULTIDISCIPLINARY SITUATIONS.**

Genetics is a broad discipline whose proponents can choose to work in the research laboratory, the field, the regulatory arena, the clinic, or the ethics office. At present the field's application to health care is in the midst of a significant transition from concentration on diseases caused by readily identifiable single genes to the effort to understand conditions that stem from the impact of several genes.

To appeal to employers in academe and industry, therefore, geneticists must demonstrate a strong foundation of classical genetics along with a feel for, and some exposure to, the complexity of multigene problems. An understanding of such modern technologies as high throughput analysis helps. So does some familiarity with related fields, especially bioinformatics.

Here we talk to representatives of a university genetics department, a government institute, and three corporations. They discuss their need for geneticists and the career prospects for scientists with qualifications in the discipline.

**DURHAM, NORTH CAROLINA:** "I like to classify the situation as work in a transition time driven by the advances in genomics," says Joseph Nevins, professor of genetics at Duke University. "There has been a long history of studying the phenotypes, including disease, resulting from single genes. Now we're in a position in which people are going to make headway in finding the genes that contribute to the more common disorders such as cardiovascular disease and cancer. These clearly have genetic contributions but they don't come from a single gene. The future of human genetics rests on the ability to find those genes using technologies that allow the study of gene variations in populations and finding genetic contributions to disease susceptibility."

treating the data set as a whole instead of an independent set of observations. The ability to do that really depends on statistics."

That fact illustrates the multidisciplinary nature of modern research in genetics. "No one person is really in a position to do the whole thing," says Nevins. "But to be successful people need to appreciate the complexity of the problems and how the various pieces fit together."

When selecting postdoctoral fellows for his laboratory, Nevins has always looked for evidence of scientific achievement. "In my lab it's never been much of an issue what postdocs' backgrounds are in terms of specific skills other than having been successful in what they have done," he says. "I look for evidence that they have been productive, such as publications in

- **Duke University**
- **Exelixis Plant Sciences**
- **Human Genome Sciences, Inc.**
- **National Cancer Institute**
- **Roche Genetics**

Nevins's laboratory uses microarray data to characterize samples of breast tumors and to find patterns that can predict the samples' behavior. The group is also involved in a collaboration that uses patients' samples to discover gene expression patterns that lead to the development of atherosclerosis. Both investigations rely heavily on statistical work. "The real power of microarray experiments is finding the patterns in the data," Nevins explains. "It's

# Aventis Cambridge Genomics Center

*The Aventis Cambridge Genomics Center, located at the Massachusetts Institute of Technology's University Park, is developing leading edge genomic technologies designed to elucidate the molecular basis of human disease. The Center employs functional genomics technologies in a high-throughput, high-output manner with the goal of assisting the DI&A disease groups in contributing innovative targets to the drug discovery pipeline. High-throughput is achieved by advanced automation and "best-in-class" gene discovery technologies. High-output is enabled via an integrated informatics approach to experimental design & analysis. Using these approaches, multiple targets may be simultaneously advanced through a better understanding of target function in the context of complex biological pathways. We currently have the following openings:*

## SENIOR MANAGEMENT

### Program Manager

**Job Code: DIA3223**

You will be a member of the Genomics Center management team which is responsible for the initiation and progression of multiple functional genomics projects focused on the discovery of pharmaceutically relevant targets. You will support global projects through the formation of project teams, formulation of goals, and coordination of resources across multiple genomics technology platforms. You will define, mentor, and lead high-visibility projects/programs; participate in the definition of scientific strategy; and track the progression and resource utilization of multiple projects. You will also act as local advocate for the biological context of projects and resource needs of Aventis disease groups.

**Requirements:** Ph.D. in molecular or cellular biology or equivalent with extensive experience with functional genomics approaches. Eight years experience in pharmaceutical and genomics research. Demonstrated project management experience through leadership of successful project teams involving the application of genomics technologies. Excellent communication skills. Fluency in French and/or German a plus. International travel required.

## BIOINFORMATICS

### Head of Bioanalysis

**Job Code: DIA3057**

Responsible for leadership of the Bioanalysis group at the Aventis Global Target Discovery Center in Cambridge, MA. You will serve as a member of the management team at the Center and aid in setting scientific direction. Activities will include: prioritizing genomic projects, QA/QC of data and communication of these data, and project status reports to Disease Group customers. Interact with the Bioinformatics Development Group for development of novel methodologies and applications.

**Requirements:** Ph.D. or equivalent level with background in bioinformatics, molecular biology, or other life science is required. Must have experience with PERL, Unix, sequence analysis tools, and sequence databases as well as significant experience in sequence analysis and/or transcriptional profiling data. Excellent communication skills and ability to work in a team environment required. Must have strong management skills including personnel management.

### Analyst, Gene Expression

**Job Code: DIA3224**

Responsible for scientific analysis of large data sets derived from chip-based gene expression experiments using standard statistical methodologies as well as existing commercially available software. You will work in a high throughput, high output environment to QA/QC data produces at the Genome Center and interface with project teams in the Disease Groups for analysis & presentation of results. Work with the Bioinformatics Development Group on evaluation & deployment of new tools & methodologies for analysis of expression information.

**Requirements:** Ph.D. in bioinformatics, statistics, or related field with hands-on experience in expression profiling data analysis required. Must have experience with PERL, Unix, NT, and standard statistical analysis software. Must be self-motivated, have excellent communication skills, and be able to work in a team environment.

## GENOMICS PLATFORM TECHNOLOGIES

### Platform Head, Gene Expression Profiling

**Job Code: DIA2593**

Lead a gene expression profiling group to compare expression patterns in normal and disease states using high density micro array technologies and DNA sequence analysis. Involves implementing and improving state-of-the-art technologies in high-throughput formats.

**Requirements:** Ph.D. in a related field with at least 3-4 years of postdoctoral research. Leadership abilities in managing a group, analyzing complex data in collaboration with bioinformatic researchers, and effecting improvements with bio-automation scientists are essential. Expertise in genomics, mammalian genetics and diseases as well as experience with gene expression technologies and/or genomics are highly desirable.

### Associate Scientist, Pathway Validation, 2 openings

**Job Code: DIA2848**

Member of a team of scientists responsible for designing, implementing, & running mammalian cell-based assays in a variety of disease areas. Interact with Aventis scientists from different disease groups to establish genomics approaches to identifying and validating drug targets. Act as an internal resource for technology development in the area of cell biology.

**Requirements:** Ph.D. in biology or equivalent area with at least 2-3 years of postdoctoral experience. Expertise in development of cell-based assays using biochemical, molecular biological, or functional readouts. Experience with in vitro cell differentiation systems and gene transfer technologies into mammalian cells is highly desirable. Experience in immunology, molecular biology and automation of cell-based assays would be helpful.

### Research Biologist Pathway Validation

**Job Code: DIA3041**

Member of a team responsible for implementing & running mammalian cell-based assays in a variety of disease areas and for establishing genomics approaches to identify and validate drug targets. Participate in technology development in the area of cell biology.

**Requirements:** Master's degree in biology or equivalent area. Expertise in cell-based assays using biochemical, molecular biological or functional readouts. Experience with in vitro cell differentiation systems & gene transfer technologies into mammalian cells is highly desirable. Experience in molecular biology and automation of cell-based assays would be helpful. Prefer 1-2 years of corporate experience.

### Research Biologist Pathway Validation

**Job Code: DIA3225**

Member of a team responsible for implementing & running mammalian cell-based assays in a variety of disease areas and for establishing genomics approaches to identify and validate drug targets. Participate in technology development in the area of cell biology. Responsible for FACS backup.

**Requirements:** Master's Degree in biology or equivalent area, preferably with 1-2 years of corporate experience. Expertise in cell-based assays using biochemical, molecular biological, or functional readouts. Must also have expertise in FACS analysis & sorting (FACSCalibur, FACS Vantage). Experience with in vitro cell differentiation systems & gene transfer technologies into mammalian cells is highly desirable. Experience in molecular biology and automation of cell-based assays would be helpful.



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for?

### Research Scientist, Functional Genomics

**Job Code: DIA3227**

Identify target genes in genetic screens utilizing viral technology. Must have strong molecular biology background and extensive experience with viral vectors (retrovirus, lentivirus). Should be proficient in cell biology and have experience with genetic screens.

Requirements: Ph.D. or equivalent with 2-3 years postdoctoral training. Broad knowledge in neurobiology, cardiovascular disease or stem cell biology is desired.

### FACS Operator

**Job Code: DIA3226**

Responsible for all aspects of a state-of-the-art flow cytometry laboratory that supports the research efforts of the Genomics Center. Operate, maintain & troubleshoot equipment that consists of a FACSCalibur and multilaser FACSVantage SE. Responsibilities include multicolor analysis, cell sorting, data analysis and interpretation.

Requirements: Bachelor's Degree, preferably in biological or physical science and a minimum of 3 years of cell sorting experience. Skills in molecular biology and tissue culture are a plus.

### Research Associate, Gene Expression Profiling Technology

**Job Code: DIA2754**

Conduct gene expression profiling using state-of-the-art transcript profiling technologies. The candidate will function as part of a team to use gene expression analysis technologies to investigate gene targets in various diseases.

Requirements: B.S. or M.S. in life sciences with emphasis and significant experience in molecular biology techniques, including the isolation and handling of RNA, cDNA synthesis, and PCR. Strong technical, communication and organizational skills and the ability to work in a team environment are essential. Practical experience with microarray profiling technology and analysis of expression data is highly preferred.

### Senior Research Biologist

**Job Code: DIA3228**

Highly motivated, innovative scientist with strong skills in molecular biology to work in the library group of the Cloning section. Participate in such activities as: RNA isolation, cDNA library construction, library amplification, genomic DNA isolation, random shotgun cloning, PCR, and other standard molecular biology techniques. Lead several technology development projects aimed toward isolation and characterization of alternate splice forms of target genes.

Requirements: BS/MS with 3 years of relevant experience that includes library construction with an emphasis on library normalization & subtraction protocols; RNA isolation; and shotgun library cloning. Must have knowledge of use of various sequence analysis tools. Supervisory and industry experience a definite plus.

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### Kenilworth, NJ

#### BIOTECHNOLOGY DEVELOPMENT

##### Senior Engineer

You will plan, supervise and evaluate pilot scale fermentation and recovery studies for monoclonal antibody, hybridoma, gene therapy and recombinant bacterial processes. Requirements include a PhD in chemical/biochemical engineering and 3-6 years of experience in process development, scale-up and clinical production of cell culture products including a background in cGMP production. **Job Code: PAD/SCI/SRI/1337HS**

##### Principal Engineer

Leading a team of scientists, engineers and operating staff, you will oversee the development, scale-up and technology transfer of purification processes and provide technical support to clinical manufacturing and offshore commercial manufacturing operations. Requirements include a PhD in biochemical engineering or related field, 6+ years of experience (including a background in GMP manufacturing and compliance) and knowledge of protein purification and scale-up principles. **Job Code: PAD/SCI/SRI/141HS**

##### Scientist I

Providing technical support in mammalian cell line maintenance, you will evaluate/implement new preservation techniques and develop methods to monitor cell banks. Requirements include a BS and 10 years of experience, or an MS in microbiology, cell biology or related field and 5-8 years of experience. A laboratory background (5-10 years) is essential. **Job Code: PAD/SCI/SRI/127HS**

##### Assistant/Associate Scientist I

Responsible for microbiological support testing of R&D products, you will investigate/implement state-of-the-art analytical methods for micro testing and develop/validate new test methods. A BS in biology, 1-5 years of experience and knowledge of cell culture/sterile techniques are required. A background in cell-based bioassays or microbiological assays is desirable. **Job Code: PAD/SCI/SRI/2038HS**

#### STRUCTURAL CHEMISTRY

##### Postdoctoral Researcher

Responsible for the study and structural analysis of enzymes in complex RNA, emanating from recent structural studies of the hepatitis C virus RNA helicase and RNA-dependent RNA polymerase. This assignment is for one year with the opportunity to renew for one additional year. Requirements include a PhD in Biochemistry, Molecular Biology with experience in macromolecular structure solution and analysis, or 2+ years of experience working with protein/RNA complexes. **Job Code: PAD/SCI/SRI/2090HS**

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### Union, NJ

#### CHEMICAL DEVELOPMENT

##### Senior Scientist

You will design and implement strategies aimed at the discovery, development and optimization of chemical synthesis for the preparation of drug substances. This will involve laboratory experiments to define processes for synthesis of bulk pharmaceutical compounds. A PhD in organic chemistry and 0-4 years of experience, which includes organic synthesis, are required. **Job Code: PAD/SCI/SRI/148HS**

##### Chemical Engineer

You will perform scale-up and implementation of bulk chemical manufacturing processes; select chemical equipment trains for production processes; and provide technical guidance and supervision to junior engineers or operating personnel. Requirements include a BS and 4-7 years, an MS and 2-5 years, or a PhD and 0-3 years of experience in the chemical processing industry (fine or pharmaceutical bulk chemicals). Knowledge of cGMPs, OSHA guidelines and applicable environmental regulations along with an aptitude for chemical development are necessary. **Job Code: PAD/SCI/SRI/1095HS**

##### Principal Scientist

Design and conduct scientific studies towards the discovery, development and optimization of chemical synthesis for the preparation of drug substances. Requirements include a PhD, 3-6 years of experience including a record of developing and converting new synthetic strategies into useable processes and excellent leadership skills. **Job Code: PAD/SCI/SRI/1081HS**

##### Assistant/Associate Scientist

You will perform assigned chemical development tasks to support the chemical synthesis and manufacture of bulk pharmaceutical compounds. Requirements include a BS in chemistry or related field and 2-4 years of experience, or an MS in chemistry with 2+ years of experience. A strong R&D aptitude as demonstrated by thesis or technical publication is necessary. **Job Code: PAD/SCI/SRI/762HS**

##### Postdoctoral Scientist

We seek a Scientist in Organic Chemistry with 0-2 years of postdoctoral experience in synthetic organic chemistry research. Demonstrated aptitude for solving R&D problems and familiarity with modern spectroscopic and analytic techniques are essential. **Job Code: PAD/SCI/SRI/322HS**



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## Neuroscience Drug Discovery Wallingford, CT

Job Code: SM/1005/JS

Neurophysiologist: PhD with at least 2 years' postdoctoral or industry expertise, particularly with in vivo electrophysiology and/or brain slice physiology (transmitter release, electrophysiology). Candidates should have advanced knowledge of Affective Disorders and/or Psychosis; experience in broader areas, such as behavioral science, is advantageous. In joining the Drug Discovery Division, this individual will supervise associate scientists and guide Affective Disorders/Psychosis research efforts.

## Dementia Disease Biology

Wallingford, CT

Job Code: SM/1005/JS

Neurobiologist: PhD and 3 years' comprehensive experience in molecular biology and/or neuropharmacology. Strong research track record in etiology, genetics, or treatment of Alzheimer's disease a must. Selected candidate will have strong communication skills and be able to collaborate with a team of Dementia scientists focused on drug discovery for Alzheimer's disease. We'll rely on you to lead project teams and manage a laboratory of 1-4 neuroscientists.

## Exploratory Technology

Princeton, NJ

Job Code: SM/1005/NR

Transgenic Specialist: PhD in Biology or related field with 2-5 years' postdoctoral experience in mouse genetic technologies. Biological background in either immunology or cancer relating to genetic animal models is key, as is transgenics and/or mouse knockouts expertise. We require full knowledge of cloning, molecular biology, Northern Blots, and PCR; familiarity with mouse biology, physiology, and husbandry; and advanced genetic systems expertise (inducible transgenic systems or cre/lox gene manipulations). You will conduct daily operations of our facility directed at generating animal models of immunological disorders and cancer, as well as establish a system for applying mouse transgenics to novel drug target evaluation. In providing leadership in characterizing the phenotype of engineered animals and establishing their use in drug discovery, the candidate will generate transgenic constructs, engineer embryonic stem cells, analyze gene expression in cells/animals, and oversee colleagues responsible for embryo manipulation and husbandry of chimera/founder breeding.

## Bioimaging

Princeton, NJ

Job Code: SM/1005/NR

Bioimaging Research Scientist: MD or PhD with an impressive background in in vivo magnetic resonance techniques, including an in-depth understanding of NMR theory and MRI/MRS applications in biological systems. The capacity for thriving as part of a multi-disciplinary team and heightened problem solving skills are crucial. You will provide in vitro MRI/MRS support to drug discovery programs by interacting closely with biologists engaged in biomarker identification and assay development. Responsibilities also entail working with clinical scientists to develop and adapt NMR technologies for drug development problems.

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## Metabolic Research

Princeton, NJ

Job Code: SM/1005/MS

In Vivo Pharmacologist: Experienced (2-4 years' post-Master's and 4-7 years' post-Bachelor's) scientist desired with a background in behavioral neuroscience, physiology, or pharmacology. Familiarity with drug dosing (central and peripheral), stereotaxic surgery, behavioral testing and models of obesity and metabolic disorders is essential. Other critical assets include good organizational skills, PC hardware/software proficiency, and data analysis skills. This role involves providing in vivo support for drug discovery programs, conducting hypothesis-driven scientific experiments, and generating/developing biological models of obesity and metabolic disorders. Frequent collaboration with other functional and therapeutic areas is required.

## Dyslipidemia and Atherosclerosis Molecular and Cell Biology

Princeton, NJ

Job Code: SM/1005/MS

Research Investigator: PhD with 2 or more years' postdoctoral experience and a record of accomplishment in research in lipid metabolism and/or vascular biology and the molecular pathophysiology of atherosclerosis. The successful candidate will have demonstrated expertise in current techniques of cellular and molecular biology including gene expression and protein biochemistry, and be familiar with in vivo lipid and lipoprotein metabolism and animal models of atherosclerosis. Previous experience in the pharmaceutical or biotechnology industry environment is desired. The candidate will work in a multidisciplinary drug discovery team and initiate and participate in research programs for the discovery and characterization of novel therapeutic agents in atherosclerosis and dyslipidemia.

## Vascular Biology

Princeton, NJ

Job Code: SM/1005/MS

Research Scientist: BS/MS in Biology or Pharmacology with a minimum of 5 years' pharmaceutical industry experience to establish and use thrombosis models for in vivo proof of principle and dose response analysis for pharmacologic agents. This individual will also work to identify and measure ex vivo biomarkers of drug activity in thrombosis and vascular disease models, and assist in developing in vitro models of thrombosis, blood coagulation and fibrinolysis. Working knowledge of animal physiology and surgical experience with small and large species are required; familiarity with monitoring and interpreting cardiovascular parameters desired. Experience with blood coagulation and/or platelet function assays is necessary, with some experience in microplate assays preferred. Computer proficiency is a must for data handling.

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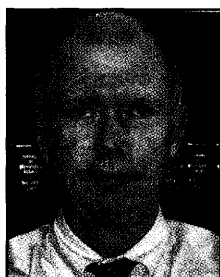
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# Genetics

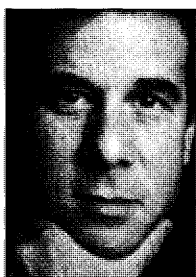
PERIOD OF TRANSITION



**JOSEPH NEVINS**

ed to a career in science."

But in the future, Nevins expects that it will become more and more important for candidates to show an ability or an interest in computation. "Individuals with those skills can fit into the milieu of a traditional genetics group and develop unique approaches to problems," he says. "I think the future of biology will be very much influenced by those who are adept at and comfortable with computational approaches and who can take advantage of the development of massive databases."



**CRAIG ROSEN**

six novel drugs into the clinic based on genomics."

The company has concentrated on applying genomics since its foundation in 1992. "We were one of the first groups to collect and sequence genes," says Rosen. "We collected cDNAs. And we have genes in our freezers to make into proteins for targets or drugs."

When it hires life scientists HGSi demands experience in molecular biology and genomics. "Genomics is a new field that involves understanding of genetics, proteins, and molecular biology," Rosen explains. "You don't find people with degrees in genomics. So we want people with an understanding of biology, pharmacology, and computer skills who can learn to work with large sets of genes. We also need engineers to make proteins."

Bioinformatics plays a significant role in the company's activity. However, the company expects its recruits to show familiarity with that subdiscipline rather than deep expertise in it. "Incoming scientists need to know statistics and how to interpret data," says Rosen. "The more geneticists and molecular biologists know about informatics, the better. But instead of asking them to do the computer programming, it's better to have specific bioinformatic groups."

HGSi does expect applicants to have knowledge of working with multiple genes. In Rosen's view that's a general requirement for the industry. "I don't see scientists going back to the old way of working on one gene at a time," he says. "The skills of working on many genes will be necessary wherever you are."

Collegiality is also critical. "Working as a team has become much more important than the individual's work. That is something new for many sci-

entists who like to carry on research from the beginning to the end," Rosen says. "Communication skills are also very important."

The company doesn't restrict its scientists to the laboratory. "There are many opportunities and you can find your niche," Rosen says. "We have plenty of mobility in the company."



**MARK GREENE**

participating in an international collaborative study on testicular cancer that has mapped a gene to the X chromosome and is in process of identifying it."

After identifying culprit genes, Greene's program aims to move the laboratory findings into application to patients. In doing so the team faces social clinical management dilemmas. In the setting of hereditary breast cancer, for example, "We must answer such questions as: Is it safe for susceptible people to take replacement hormones or use certain oral contraceptives?" says Greene. "The ability to identify individuals at increased risk of cancer on the basis of mutations in major cancer susceptibility genes has led to a host of challenging questions, the answers to which remain unknown."

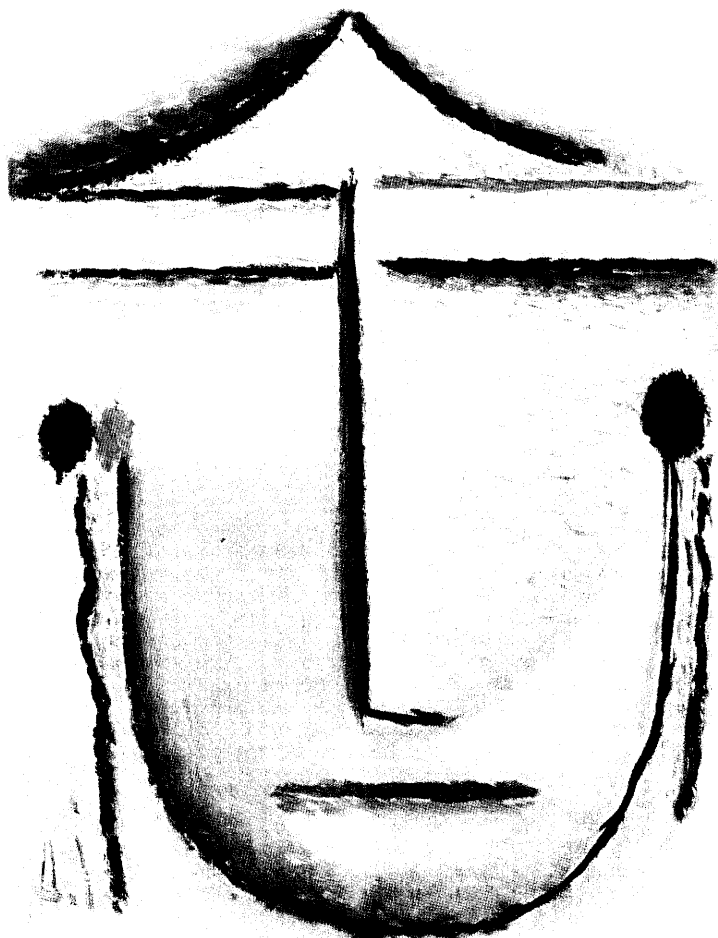
The team also deals with issues related to "little genes." These, says Greene, "have minor genetic variations in significant proportions in the general population. Illnesses related to them don't cluster in families. But as the associated genetic variants, or polymorphisms, are common, disease-related alterations in the genes such as these can account for a substantial fraction of that disease." Take NAT2, a gene that can apparently detoxify certain carcinogens in cigarette smoke. "Certain variations in the gene are associated with an increased risk of bladder cancer, particularly in smokers," says Greene. "There's a huge amount of ongoing epidemiologic work looking for relationships between the risk of specific diseases and minor variations in these genes. It's turning out to be a very complicated area, but one that holds a lot of promise."

To carry out that research Greene needs scientists with a feel for several disciplines. "I'm looking for medical oncologists with some experience in genetics and epidemiology," he says. "I need geneticists with some understanding of oncology and perhaps some epidemiology."

Tracking down those individuals isn't easy. "We're having difficulty finding good people," says Greene, who currently wants to hire two investigators. "We want experienced senior investigators and postdocs capable of conducting their own independent research and mentoring the junior peo-



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## Human Genome Sciences

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**Job Code: TS**

##### ANTIBODY DEVELOPMENT SCIENTISTS

PhD/MD in Molecular Biology, Cell Biology, Immunology, Biochemistry or related discipline with 2 years postdoctoral work in an R&D environment, including experience with recombinant protein expression/purification systems. *In vitro*, *in vivo* and *ex vivo* assay development desired. **Job Code: VA**

##### BIOPROCESS ENGINEERS

BS/MS/PhD in Bio/Chemical Engineering or Biotechnology and experience in the production of recombinant proteins from yeast expression systems. Knowledge of fermentation and background in biotech/pharmaceutical process or product development desired. **Job Code: CB**

##### PRECLINICAL DEVELOPMENT SCIENTISTS

PhD in Immunology or related field with 3 years experience in developing *in vitro* allergy models. Experience in ligand-receptor interactions desired. Industry experience in drug discovery or development preferred. **Job Code: DH**

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## Proteomic Technologies, Pathway Genomics

### Senior Scientist

(Research Triangle Park, NC Opportunity)

In this opportunity you will collaborate with the Expression Proteomics groups and Interaction Proteomics/Pathway Discovery groups within Genetics Research in the design, implementation and management of transnational proteomics projects. You will be responsible for the development of fractionation and digestion protocols for a variety of samples (gel spots, total protein mixtures, immunoprecipitations, affinity column fractions), and coordination of their analysis using automated nanoscale capillary LC/MS/MS and MALDI/MS/MS. Along with your Ph.D. in a biological science or related field, you will have up to 3 years of relevant research experience. Substantial knowledge of cell biology, protein biochemistry, protein purification/fractionation technologies, and the application of mass spectrometry to the analysis of proteolytic digests is essential. (Job Code: 13280)

## Gene Interference

### Senior Investigator

(Research Triangle Park, NC Opportunity)

Using your demonstrated ability to supervise and manage both line and project research teams, you will lead scientists that assess the pathophysiological and therapeutic impact of specific genes as molecular targets using technologies that alter gene/protein activities (e.g. viral vectors expressing normal/mutant proteins, antisense oligonucleotides, and double stranded RNA (RNAi)). You will also serve as a point of contact for these gene modulation studies by establishing and maintaining key interactions with GSK scientists in many disciplines, including disease biology, protein target classes, genetics, genomics, and bioinformatics, and by participating in interdisciplinary project teams. Your Ph.D. or equivalent in cell/molecular biology or related discipline and an additional 10 years of experience, with a research and/or publication record to substantiate this expertise are necessary. Extensive knowledge of cell biology, protein/RNA analysis, cell-based assay development is essential, as is management experience. Pharmaceutical/biotech experience preferred. (Job Code: 12390)

## Genomic Histology

### Senior Investigator

(Research Triangle Park, NC and suburban Philadelphia, PA Opportunities)

Your ability to motivate both line and project research teams will play a key role, as you will lead scientists in the performance of molecular histology-based RNA and protein expression/localization profiles in support of target identification/validation research. You will also serve as a point of contact for genomics molecular pathology by establishing and maintaining key interactions with Pathologists and other Molecular Pathology Scientists in Safety Assessment and participating in interdisciplinary project teams. Your Ph.D. or equivalent in molecular pathology, molecular/cell biology or related discipline and an additional 8 years of research experience, with a research and/or publication record to substantiate molecular pathology expertise are necessary. Extensive knowledge of molecular pathology, histology, *in situ* hybridization, immunohistochemistry, and tissue-processing procedures applied to morphological localization of RNA and proteins are essential. Pharmaceutical/biotech experience preferred. (Job Code: 12321 (RTP) and Job Code: 01-1114 (Philadelphia))

## Pathway Discovery

Our Pathway Discovery Department currently has several opportunities available in our Interaction Proteomics group, which investigates biological pathways using various techniques to discover and confirm specific protein-protein interactions. As appropriate, additional work will be done with internal and external scientific collaborators to devise cell-based functional assays for further target validation or pathway expansion. These efforts will be critical for decisions regarding drug target selection and validation within a wide variety of therapeutic areas. Prior research experience with protein interaction assays such as yeast two-hybrid or *in vitro* binding assays and familiarity with cellular fractionation/isolation of protein complexes are highly desirable for Interaction Proteomics openings.

### Investigator, Interaction Proteomics

(Research Triangle Park, NC Opportunity)

As a Ph.D. level scientist, you will conduct and supervise experiments relating to the isolation and identification of proteins within large complexes. Your expertise in mammalian cell transfection, affinity purification, and immunoprecipitation is necessary. Post-doctoral experience in molecular biology, biochemistry, or a related area is necessary, and experience with fluorescence or bioluminescence resonance energy transfer (FRET/BRET) is desirable. Excellent communication, leadership, and teamwork skills are essential. (Job Code: 13229)

### Scientist, Interaction Proteomics

(Research Triangle Park, NC Opportunity)

Two opportunities are also available in our interaction proteomics group for MS or BS level scientists with technical experience in mammalian cell transfection, protein expression, affinity purification, and immunoprecipitation. Strong molecular and cellular biology skills are necessary. The ability to work with minimal supervision and manage a tissue culture facility is essential, as are exceptional communication and teamwork skills. (Job Code: 13230 and 13231)

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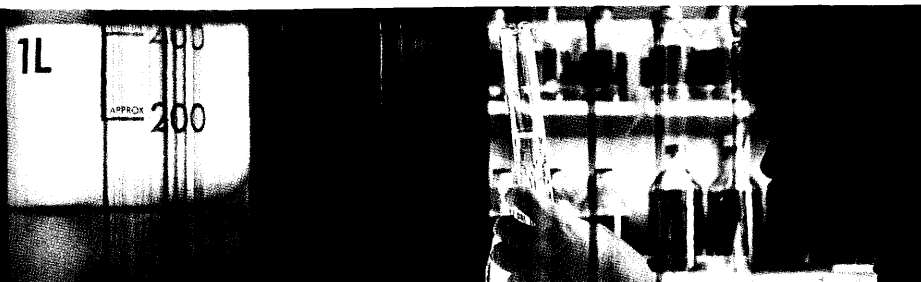
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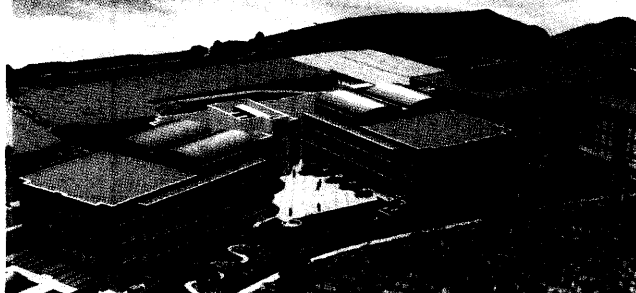
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#### **Sr. Scientist**

Leading our research team of scientists in directed and molecular evolution, you will work on several projects targeted at the evolution of proteins for industrial and pharmacological applications. You will use your scientific and patent literature knowledge in the field of protein engineering and evolution, as well as your experience with a variety of *in vitro* and cell-based assays and molecular biology techniques.

Requires a PhD in a related field and demonstrated experience in supervising researchers. Excellent communication and computer skills combined with a strong grasp of statistics and probability are essential. PA-89R-01SCI

#### **Scientist II**

You will utilize molecular diversity to develop novel proteins with pharmaceutical or industrial applications. Using your broad knowledge of molecular biology techniques and library construction and high-throughput approaches, you will manage and expand our portfolio of methods for the generation of random or semi-random libraries. Requires a PhD in Molecular Biology, Enzymology, or Cell Biology and postgraduate experience in areas such as applied molecular evolution, phage display, and protein engineering. You should have strong skills in cell culture, bioinformatics, statistics and probabilities, and biochemistry. Excellent communication and team skills are essential. PA-59N-01SCI

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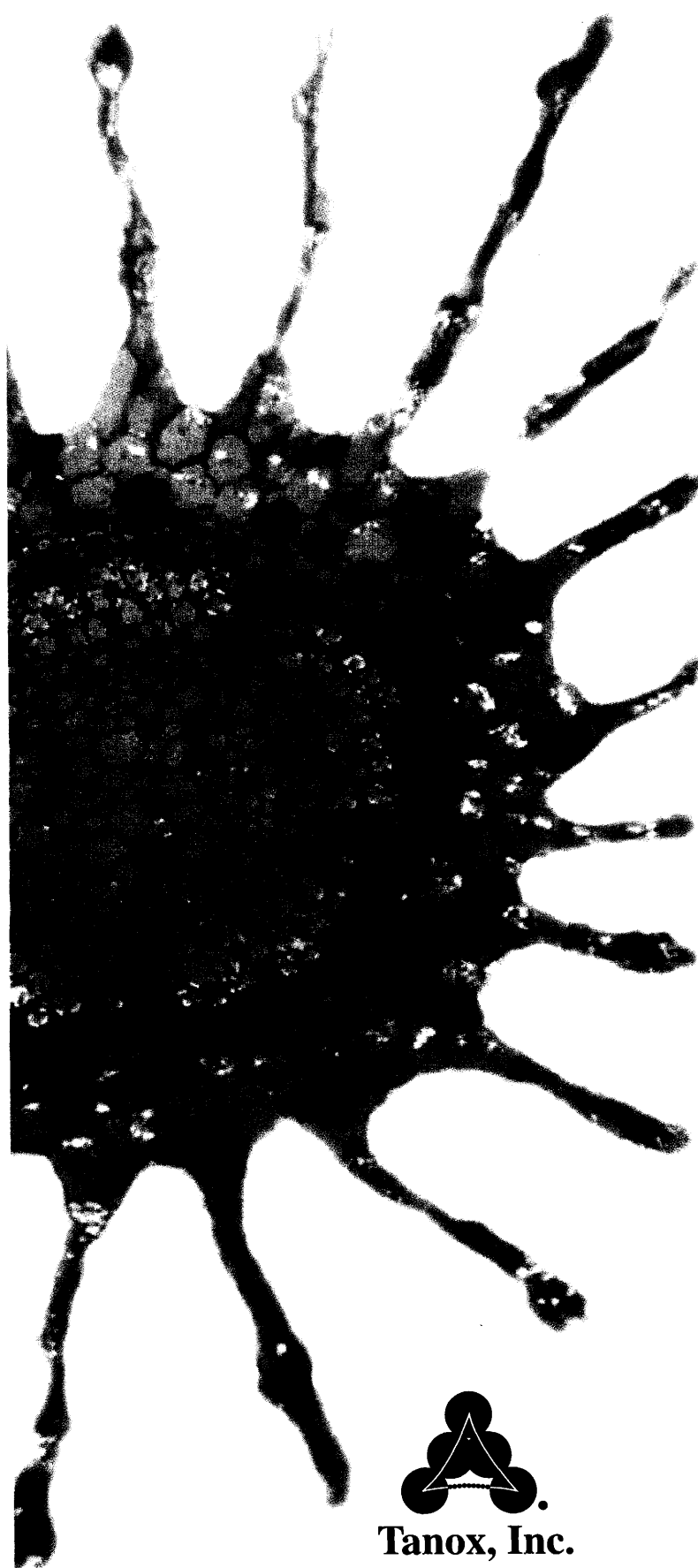
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As one of the top biotechnology companies in the world, Genencor offers an informal, highly creative work setting in which high team spirit, open communication and environmental responsibility are considered company hallmarks. Our competitive compensation and benefits package features a generous 401(k) matching plan, stock options, and a retirement plan. For consideration, please submit your resume/c.v. online to our careers page at [www.genencor.com](http://www.genencor.com) or send to: Genencor International, Inc., 925 Page Mill Road, Palo Alto, CA 94304-1013; fax to: (650) 845-6500. Background checks will be conducted. An equal opportunity employer M/F/D/V.



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This position will be responsible for leading a research effort to provide in vitro characterization and validation of novel therapeutic targets in the areas of immunology and allergy. PhD in Molecular Biology, Immunology or related field with two or more years' post-doctoral training and a strong publication record required.

**RESEARCH ASSOCIATE**

This position will be part of a research team focused on the discovery and evaluation of therapeutic target candidates using cutting-edge functional genomics approaches. BS/MS degree in life sciences with one year or more laboratory experience required. Must possess a broad set of molecular biology laboratory skills, with experience in mRNA purification and characterization, cDNA manipulation and cell culture.

**CELL BIOLOGY**  
**RESEARCH SCIENTIST**

This scientist will be focused on the discovery of novel targets. PhD/MD with at least two years post-doctoral experience focused on the human immune system is required. Must be skilled in immunological and cell-based assays for cytokines, soluble proteins and receptors. Knowledge of signal transduction and apoptosis is desirable.

**RESEARCH ASSOCIATE**

This position will be part of a team responsible for the generation of therapeutic monoclonal antibodies. BS/MS is required with at least three years' experience in the areas of cell culture, hybridoma generation, and monoclonal antibody characterization by cell-based assays, ELISA, and flow cytometry.

**MOLECULAR BIOLOGY**  
**RESEARCH SCIENTISTS**

These scientists will work in the area of antibody engineering. PhD with up to six years' demonstrated experience in affinity maturation, decreasing immunogenicity or modification of half-life required.

**PROTEIN CHEMISTRY**  
**RESEARCH SCIENTIST**

This position will be responsible for the purification and characterization of antibodies and other proteins for research and pre-clinical studies. PhD in biological sciences and one or more years' industry experience required. Must be familiar with a broad range of protein purification methods including affinity column chromatography and other biochemical/biophysical techniques. Good communication skills and a strong publication record are essential.

**RESEARCH ASSOCIATES**

These associates will be responsible for the purification and production of recombinant proteins. BS/MS in Biological Sciences required, with at least one year of relevant experience to include HPLC, column chromatography, mammalian cell culture, protein isolation and recombinant DNA techniques.

Candidates are invited to send resumes in confidence to:

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# Genetics

## PERIOD OF TRANSITION

ple in the program as well as postdocs who are eligible for tenure track appointments."

Recruits must show their ability to work in multidisciplinary teams and function in a collegial fashion. "Communication skills, both writing and verbal presentation, are also critical," Greene adds. "Being able to present your thoughts in a lucid and coherent fashion is essential if you're going to influence your field. We are particularly eager to find investigators who have a flair for thinking etiologically. This is a gift that some folks have and others simply don't."

How can geneticists pick up the necessary skills? "Look for opportunities to be exposed directly to this kind of research through summer jobs, clinical clerkships, and similar programs," Greene advises. "If you can bring expertise in more than one area to a job interview you'll be at an advantage."



**RY WAGNER**

**PORTLAND, OREGON:** Exelixis Plant Sciences, a wholly owned subsidiary of Exelixis, Inc., expects its geneticists to have a strong grounding in Mendelian genetics but to be experienced in modern approaches to molecular biology and biochemistry. "The geneticists we've hired in the recent past all have had some exposure to high throughput or large-scale analysis," says vice president of research Ry Wagner. "More and more that's an important component in an industry setting."

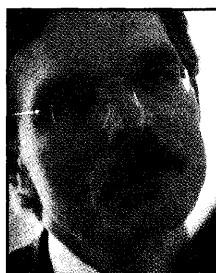
It's particularly critical for Exelixis Plant Sciences because the company is moving toward what it calls "biochemical genomics." "Our program has been amazingly productive in identifying a number of traits through high throughput analysis," Wagner says. "We have been able very quickly to direct the action from phenotypes back to genes."

Nevertheless, Wagner desires at least some classical training for the geneticists he hires. "Some of our greatest successes have come with approaches that rapidly lead us to single gene effects," he says. "For example, we've used high throughput analyses to quickly characterize mutant collections and identify traits, but eventually we need to relate these mutant phenotypes to allelic effects to understand protein function and the potential for related gene functions to exist in agriculturally important plant species. We always have to go back to the basic genetic information. The high throughput genomic approaches identify a tremendous amount of information, but you need to distill that to a single gene level. Doing so requires training in genetics."

When selecting scientists, says Wagner, "The most important criterion I apply in reviewing candidates is 'creative potential.' Often people trained in a more classical approach have that and shine in it. Currently we are also interested in investigators who have had exposure to bioinformatics. Scientists who can cross the bridge between genetics and bioinformatics in understanding how to deal with complex issues using modern tools are extremely valuable. Scientists who can cross the bridge between genetics and bioinformatics in understanding how to deal with complex issues using modern tools are extremely valuable to the success of current research programs."

How about less tangible qualifications? "We look for creativity and the motivation to carry projects through to the end; that means publication for academic projects," Wagner says. Recommendations from coworkers are also important, and are often particularly strong for students who have

worked on collaborative projects with scientists outside their own laboratories. "Some of the strongest candidates have worked in one area but have built bridges with collaborating groups," Wagner explains. "That gives them not only a broad base of recommendations, but recommendations made as a result of more familiar experience. It also shows that they have been able to operate in a team setting. Many of our own projects — including some of those within Exelixis — are over long distances. Often these involve overseas collaborations. People who have experienced collaboration across time zones are usually at ease with long distance team projects."



**KLAUS LINDPAINTNER**

**BASEL, SWITZERLAND:** "We can't think about health care progress without genetics," says Klaus Lindpaintner, director of Roche Genetics, a unit in the pharmaceuticals and diagnostic company F. Hoffmann-La Roche. "We know about rare, classic genetic diseases. But we also know that every one of the common diseases has a genetic component."

Not surprisingly, then, drug discovery involves a healthy dose of the discipline. "In the very early discovery stages we talk about new targets. Genetics is powerful in finding new targets via causation rather than association," says Lindpaintner. "Then, when you're looking for molecules to modulate a target, genetics and genomic approaches and tools increase the likelihood of finding a successful compound." Genetic research confers more immediate benefits on diagnostics. "If you have a gene variant contributing to a disease," he continues, "you have the basis of a diagnostic test."

Roche Genetics seeks geneticists across a broad spectrum, from individuals to work on DNA sequencing and genotype screening to population geneticists, clinical geneticists, and statistical geneticists. "We take excellent applicants at all stages," Lindpaintner says. "We have a number of postdoctoral students working with us. We cherish them because they allow our senior scientists to keep their hands in research that has more of an academic flavor. We also take doctoral students in genetics and genomics. That's valuable for them and attracts some of the best, as one of the great advantages we have is cutting edge technology. Some of the students actually work on technology development itself. In fact my research group has a commitment to spend about 25 percent of its time advancing molecular genetic and genomic technologies relevant to drug discovery."

The multidisciplinary nature of genetics puts a premium on the skills of effective communication, fast understanding, and effective teamwork. "We often find ourselves dragging a molecular geneticist into a clinical team," Lindpaintner says. "So they have to understand clinical, ethical, and regulatory issues. We expect them to be broad in understanding, willing, and capable of communication. At the same time we're very supportive in helping them to develop."

The perfect genetics career can involve exposure to two strands of research. "It's wonderful if you can do both academic and industrial research," says Lindpaintner, who was himself an associate professor of medicine at Harvard Medical School before joining Roche Genetics. "But academic will rarely give you the thrill of being part of a team that turns a discovery into something that actually will help people lead a healthier life. The ultimate goal of all science must be to improve the human condition. And industry is an essential part of getting there. It's clear that this is a tall task that can be mastered only by collaboration and teamwork." III



## ENDOWED PROFESSORSHIP IN MOLECULAR BIOLOGY & FUNCTIONAL GENOMICS

The Department of Genetics at the University of Georgia in Athens is seeking a distinguished faculty member with national and international accomplishments for appointment as the **Norman H. Giles/Georgia Research Alliance Eminent Scholar in Molecular Biology and Functional Genomics**. This highly endowed Eminent Scholar Position has been established as part of the Georgia Research Alliance (GRA) Bioinformatics Initiative. The GRA is a partnership among the state's research universities, the business community, and state government, and is designed to create science and technology-driven economic development. In addition to the Endowed Professorship, a generous start-up package will be provided.

The successful applicant must be a recognized authority in molecular genetics/functional genomics with an outstanding record of sustained research productivity, funding, and the promise of continued achievement commensurate with a tenured full professor position. The scholar is expected to develop and direct a vigorous research program.

The Department of Genetics at the University of Georgia consists of 18 faculty including four members of The National Academy of Sciences. Established strengths exist in plant, bacterial and animal molecular genetics and in population genetics and molecular evolution. The Department is housed in a recently constructed state-of-the-art Life Sciences Building on the Athens Campus. Athens, located 75 miles from Atlanta in the rolling hills of northern Georgia, provides a pleasant, college-town living environment. For additional information, visit our web site at [www.genetics.uga.edu](http://www.genetics.uga.edu) or contact Dr. John F. McDonald, Head of the Department (706-542-8000, [mcgene@arches.uga.edu](mailto:mcgene@arches.uga.edu)).

Nominations and curriculum vitae should be sent to: **The Eminent Scholar Search Committee, Department of Genetics, University of Georgia, Athens, GA 30602; or via E-mail to: [scholar@arches.uga.edu](mailto:scholar@arches.uga.edu).**



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### UNIVERSITY OF CALIFORNIA, DAVIS CENTER FOR GENETICS AND DEVELOPMENT

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The Center for Genetics and Development, University of California, Davis, invites applications for tenure-track positions at the levels of Assistant, Associate, or Full Professor. The Center will be a physical and intellectual focal point for research in advanced molecular genetics and development across the five sections of the Division of Biological Sciences and in related campus units. The Center will be recruiting 14 new faculty members at the Assistant, Associate, and Full Professor levels over the next four years. These appointments will be made jointly with an academic unit in the biological sciences as is appropriate to the background and interests of the candidates, and appointments will reside in an appropriate academic department to be determined in consultation with the successful candidate. A Ph.D. (or equivalent) is required. Candidates must have an outstanding record of achievement in research and will be expected to develop a strong research program in an area broadly related to genetics and development. We seek outstanding individuals in all areas of molecular, cellular, and developmental biology, and we seek to augment and complement existing strength in chromosome biology and signal transduction. The successful candidate will be expected to teach and advise at the undergraduate and graduate level. Applicants should submit (1) a curriculum vitae, (2) copies of no more than five published and in-press papers, (3) a statement of current and proposed research, and (4) arrange to have at least three letters of recommendation sent to:

**Dr. Stephen Kowalczykowski, Director  
Search Committee  
Center for Genetics and Development  
University of California, Davis  
One Shields Avenue, Davis, CA 95616-8665**

Closing date: Open until filled, but all application materials, including letters of recommendation, should be received by October 15, 2001 to be assured full consideration.

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#### PLANT CELL BIOLOGIST

Exelixis Plant Sciences Inc., an agricultural functional genomics company, is seeking a creative scientist to provide leadership and bench level expertise to programs in Cell Biology. A Ph.D. in plant sciences in the area of agricultural biotechnology is required and a record of post doctoral accomplishment in academia or industry is desired. The successful candidate will have a strong background in the regeneration and transformation of crop plants and a track record of productivity and innovation. Responsibilities may include developing protocols for high-throughput production of transgenic plants, the development of in vitro screening procedures, manipulation for increased biomass in culture and evaluation of transgenic plants. Familiarity with the molecular techniques used in the analysis of transgenics is expected. Excellent oral and written communication skills are essential and experience leading a research team in a collaborative environment is desired. The candidate must demonstrate a commitment for excellence in research and will be expected to document research to support patents and publications. The successful candidate will be a team player who is highly motivated, seeks responsibility and takes initiative.

To apply, please send a cover letter with curriculum vitae, a selection of publications, and the names and contact information for three references by November 30, 2001 to:

**Human Resources  
Exelixis Plant Sciences, Inc.  
16160 SW Upper Boones Ferry Road  
Portland, Oregon 97224  
Fax: (503) 213-2063 or e-mail: [pkhan@exelixis.com](mailto:pkhan@exelixis.com)**

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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 could be the opportunity you've been searching for.

**THE MOUSE GENOME INFORMATICS PROGRAMS  
HAVE THE FOLLOWING OPENINGS:**

## Scientific Curators

Professional positions are available as 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 and the Gene Ontology Project. 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.

(Please refer to job # sci/083/1T.)

**JAX RESEARCH SYSTEMS (JRS) HAS THE FOLLOWING OPENINGS:**

## Director of Technology

Reporting to the President of JRS and responsible for providing scientific leadership and vision for JRS in all areas related to technology and applied research. Areas include: typing laboratories and programs responsible for the testing and validation of JAX Mice; identification, acquisition and development of new mouse models as biomedical research tools; development of new products, services and research applications; developing the scientific infrastructure to support applied research; and JAX Mice Technical Information Services. The Director will be a liaison to the Scientific Staff of The Jackson Laboratory, and will be key to ensuring the resources and services provided to the biomedical research community are reliable, effective and technologically advanced. Qualifications: a Ph.D. with excellent communication skills, managerial experience and a strong background in biotechnology and mouse genetics/mouse biology.

(Please refer to job # sci/158/OJ.)

## Technical Relations and Programs Scientist

Position is the key liaison to research organizations using JAX resources and services. Responsibilities include: identifying new product and service development opportunities; organizing conferences aimed at the biotechnology and pharmaceutical scientific community; presenting technical seminars; organizing meetings between corporate representatives and The Jackson Laboratory scientific staff; and providing technical support on the use of mice in biomedical research. Qualifications: a Ph.D. in a biological science; excellent communication and presentation skills; extensive knowledge of the use of mouse models in biomedical research; and a solid understanding of the technologies and approaches used to support healthcare discovery research.

(Please refer to job # sci/140/IJ.)

Interested applicants for all positions should send c.v. and cover letter to: Human Resources, The Jackson Laboratory  
600 Main Street, Bar Harbor, ME 04609  
Email: jobs@jax.org • Fax: (207) 288-6106

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**www.jax.org**

## Cancer Genetics Tenure-Track Faculty Position

The Section of Cancer Genetics is recruiting a tenure track Assistant Professor to establish an outstanding research program in the area of cancer genetics. Individuals working in human or mouse systems to study the pathways altered in cancer are encouraged to apply. The department has strong ongoing programs in human and mouse genetics, signal transduction, cell cycle, DNA repair, and development. We offer a very attractive recruitment package, an active graduate and post-doctoral training program and the unmatched scientific environment of the Texas Medical Center. Applicants should hold Ph.D. and/or M.D. degrees and be able to demonstrate their potential as independent scientists. Those interested should send a curriculum vitae, a two-page research summary, and the names and addresses of at least three references before **November 30, 2001** to:

**Guillermina Lozano, Ph.D.**  
Chair of the Search Committee  
Department of Molecular Genetics, Box 11  
The University of Texas M.D. Anderson Cancer Center  
1515 Holcombe Blvd., Houston, TX 77030

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## Cancer Meetings Program Director

Cold Spring Harbor Laboratory, a world-renowned research and teaching institution, has a position available in the Banbury Center. The Center is a small conference center known for the excellence and timeliness of its discussion meetings on topics in molecular biology and genetics, neuroscience, plant science and science policy. Further information about the Center will be found on its web site:  
[www.cshl.org/banbury](http://www.cshl.org/banbury).

We are seeking a highly motivated, versatile individual to develop a new program of meetings designed to promote the transfer to the clinic of research on cancer treatments based on biological molecules. The program is supported by the Herbert J. Siegel Fund for Cancer Pharmacogenomics. In addition, there will be opportunities to expand the cancer meetings program at Banbury; for example, by developing a series examining genetic and environmental influences on cancer.

Applicants should have a Ph.D. or M.D. and at least three years experience of postdoctoral research in molecular biology, cell biology, or developmental biology. Preference will be given to individuals who have research experience in cancer related topics. Scientists working in editorial positions are also invited to apply. Good writing skills are essential and applicants will be asked to submit samples of their work. Most important are a willingness and enthusiasm to cultivate interests in a wide number of fields; to work independently; and to interact well with other people.

We offer a competitive salary and comprehensive benefits including on-site child care. Please send your CV and three references to: Human Resources, CMPD,

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## Associate Professor / Director of Bioinformatics UCSF Comprehensive Cancer Center and Cancer Research Institute University of California, San Francisco

The UCSF Comprehensive Cancer Center invites applicants for a Director of Bioinformatics. The position will be made in the Cancer Research Institute at the Associate Professor level. The successful candidate will be expected to develop informatics techniques to manage, integrate, and interpret the vast amounts of genetic and biological information from modern genomic, genetic, and biological research. This will involve basic research in statistical, machine-learning, visualization, and other approaches in order to leverage: 1) the biological data being collected; 2) expansion and spatial consolidation of the Cancer Center bioinformatics program; 3) development of web-oriented information exchange capabilities so individuals throughout the Cancer Center can contribute to and access communal databases; and 4) development of standard data dictionaries and data exchange protocols.

Applicants should have a strong interest in translational cancer research; PhD-level formal training in computer science; experience in analysis of large-scale data, including molecular profiles of human cancers; and expertise in genetics and proteomics. A background in molecular modeling is a plus.

Submit application (including CV and names of three references) before November 30, 2001, to Frank McCormick, PhD, FRS, c/o Joanne Deming, UCSF Comprehensive Cancer Center, 2340 Sutter Street, N-321, San Francisco, CA 94143-0128.

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### RESEARCH

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Gene Therapy – Adenovirus Vector Program

#### SCIENTIST

Gene Therapy – Oversee our pre-clinical GVAX Vaccine program

#### SENIOR RESEARCH ASSOCIATE(S)

Assist in the development of stable packaging and producer clones for the Lentivirus project and development of cell lines for GVAX clinical use.

Help further our pre-clinical gene therapy programs. Responsibilities include: cell biology, preparation of recombinant viruses and antibody screenings/ELISA's.

Characterize paracrine p27-916 as anti-angiogenic agents. Participate in viral immunobiology studies. Develop/characterize monodonal antibodies targeting angiogenic factors in tumors. Assist DNA virus and lentivirus groups in the preparation of virus for preclinical studies.

### DEVELOPMENT

#### ASSOCIATE SCIENTIST/SCIENTIST – LENTI

Play a lead role in developing analytical methods for lentivirus gene vector characterization.

#### ASSOCIATE SCIENTIST/SCIENTIST

Responsible for the development and optimization of various upstream cell culture processes.

#### ASSOCIATE SCIENTIST/SCIENTIST

Responsible for developing scalable production processes for viral vector products.

*Please send your resume to:*

**Cell Genesys, Inc.**

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Foster City, CA 94404

Fax: 650 349-4785

Email: [HR@cellgenesys.com](mailto:HR@cellgenesys.com)

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# Best in your field? We're looking for the cream of the crop!



**Torrey Mesa Research Institute** (formerly Novartis Agricultural Discovery Institute, Inc.), a research institute of Syngenta Research & Technology, is one of the largest, single, fully-funded research endeavors dedicated to agricultural genomics, consumer health, and post-genomics technology. As an innovative and team-oriented company, we develop and apply cutting-edge biotechnology to match genes with traits for improved agribusiness products, including consumer and animal health products. TMRI's Genome Technology group offers an exciting, highly interactive, multidisciplinary research environment in which leading edge technologies are exploited and novel approaches developed for understanding the specifics of plant regulatory gene function. We currently seek the following talented individuals:

## Senior Research Associate

Successful candidate will be responsible for supervision of the Custom Sequencing Group at TMRI. Must be knowledgeable in all phases of the DNA sequencing process. This typically will include the steps of subclone library construction, template DNA preparation, DNA sequence reaction setup, fluorescent sequence detection and preliminary data characterization and analysis. Group works directly with advanced automation, including robotic colony pickers, liquid pipetting robots and automated capillary DNA sequencers. Data analysis tasks involve the use of numerous public, commercial and custom sequence analysis tools. Requires a BS/MS degree and 5+ years' experience (laboratory and supervisory). Supervisory skills must include good communication skills as well as a strong customer focus and team orientation. Will work in conjunction with 2 Production groups' supervisors and supervise a group of 3 RA's. Additional responsibilities will include training, performance evaluations, departmental reports, and project management. Job Code: SRA/TMIG-SCI

## Research Associate/Senior Research Associate

We are looking for two highly motivated individuals to apply their skills to our rice functional genomics project. Requires a BS/MS in Molecular Biology and 2-5 years' experience. Successful candidates will have demonstrated experience in core molecular biology skills including DNA and RNA extraction and purification, gel electrophoresis, plasmid construction, PCR and recombinant protein expression and purification. Plant Molecular Biology experience is desired but not necessary. Selected candidates will contribute to our team to utilize our proprietary rice genomic sequence to establish regulatory networks controlling traits of value, clone regulatory gene cDNAs, prepare constructs for plant transformation and assist in identifying and characterizing proteins that bind to cis elements identified in our bioinformatics effort. We aim to use this information to identify gene leads for our company wide functional genomics effort for the production of economically important new plant varieties. Job Code: RA/POE-SCI

## DATA MINING OPPORTUNITIES

*The objective of TMRI's Data Mining team is to extract commercially useful information from the vast amount of whole genome and EST sequence, as well as expression and proteomics data. We currently have 2 open positions:*

## Programming Associate

Successful candidate will be responsible for organizing and evaluating public and proprietary sequence, expression and proteomics data to enable and assist in efficient data mining. Requires a BS in Molecular Biology, Computer Science or a related field and a minimum 1 year experience in the bioinformatics field. Also requires experience with Java or PERL and an understanding of biological processes and experimental biology techniques. Excellent communication and interpersonal skills and an ability to work in a team environment are essential. Job Code: PA/GPRE-SCI

## Bioinformatics Specialist

The data mining effort will be driven in part by this individual, who will create and use modular tools to efficiently mine sequence and expression data for useful genes. The successful candidate will be familiar with sequence analysis and alignment tools, phylogenetic analysis, domain and motif searches. Requires an MS or a Ph.D. in Bioinformatics or a Ph.D. in Biological Sciences with a solid background in both (evolutionary) biology and bioinformatics. Also requires experience with Java or PERL, an understanding of biological processes as well as experimental and computational biology methods. Excellent communication and interpersonal skills and an ability to work in a team environment are essential. Job Code: BS/GPRE-SCI

TMRI offers excellent compensation and a great benefits package, including 401(k) with match and immediate vesting. For confidential consideration, please send cover letter indicating position of interest and resume including salary history and expectations to: **Torrey Mesa Research Institute**, Attn: HR/Job Code), 3115 Merryfield Row, San Diego, CA 92121-1102. Fax: (858) 812-1096. EOE

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

## Faculty Position in Computational and Statistical Genomics Assistant Professor

### Cornell University Ithaca Campus

Applications are invited for a tenure track assistant professor position in the use and development of databases in biology. Applicants should have a Ph.D. either in mathematical sciences, computer science, biology, or engineering. The position is aimed to bridge between different disciplines, and the successful candidate must demonstrate outstanding research accomplishments and potential in the field.

The position is a part of the University-wide Cornell Genomics Initiative at Ithaca (<http://genomics.cornell.edu>) and a tri-institutional collaboration (Rockefeller, Sloan Kettering, and Cornell/Weill Medical College) in Computational Biology. The department of the appointment at the Cornell Ithaca campus is open and will be decided based on the interests and the qualifications of the successful candidate.

Position open until filled; review of applications to commence on November 15, 2001.

**How to Apply:** Mail CV, list of publications, statement of research interest, and the names of at least three referees who are familiar with your work to:

**Ms. Helene Croft**  
Department of  
Computer Science  
Upson Hall 4130  
Ithaca, NY 14853

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<http://chronicle.com/jobs/profiles/2377.htm>

## Faculty Position, Cell or Developmental Biology of the mouse

Department of Molecular Biology  
and Genetics - Cornell University

The Department of Molecular Biology and Genetics seeks a tenure-track ASSISTANT PROFESSOR investigating questions of CELL OR DEVELOPMENTAL BIOLOGY using the MOUSE as a model organism. This will be the first of at least two anticipated positions for mouse biologists in this department, as part of a campus-wide expansion in mammalian biology. The successful candidate will be expected to establish a vigorous independent research program, participate in the teaching of cell or developmental biology at both graduate and undergraduate levels and contribute to departmental and university initiatives in mammalian genomics (see <http://genomics.cornell.edu>). The department includes faculty with research programs in developmental biology, cell biology, genetics, molecular biology, structural biology and biochemistry (see <http://www.mbg.cornell.edu>).

Candidates should submit a curriculum vitae, a description of research plans and arrange for three letters of recommendation to be sent to:

**Dr. Kenneth Kempthorne**  
Mouse cell/development  
search committee  
Department of MBG  
107 Biotechnology Bldg.  
Cornell University  
Ithaca, NY 14853

The committee will begin reviewing applications on November 15.

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## **Laboratory Head in the Bioanalytical Group of Drug Metabolism/Pharmacokinetics (DMPK)**

Members of this team should possess the following responsibilities

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- Conduct of studies and validation of assay parameters.
- Acting as a responsible study manager in all studies which are performed according to good laboratory practice (GLP)
- Delegation of tasks and projects to colleagues; supervising scientific staff during development work as well as during the determination of bigger sample series.
- Adherence to the compliance of both internal and external quality standards (e.g. GLP, FDA and ICH Guidelines).
- Acquisition and pharmacokinetic interpretation of analytical data with appropriate software programs (e.g. WinNonlin).
- Representation of DMPK in multifunctional project teams.
- Development of strategies to overcome potential pharmacokinetic issues.
- Writing of reports for research and approval purposes. Presentation of analytical results and active participation in research and project teams.

### **Requirements (Research Scientists):**

Qualified candidates will possess a Ph.D. in organic, analytical or physical chemistry and possibly a postdoctoral fellowship. The candidate should be able to demonstrate success in solving challenging analytical problems.

- Wide experience with chromatographic analytical systems (HPLC, LC-MS/MS, GC, GC-MS)
- Experience in pharmacokinetic data interpretation
- Good experience in EDP (MS-Office etc.)
- Strong communication skills with the ability to work in multidisciplinary teams are essential.
- Good knowledge of the English language (spoken and written).

We offer a creative scientific and international environment, which will allow you to further develop your skills very quickly. Our state-of-the-art facilities provide you with every opportunity to be successful in this challenging position and prepare you for your future career. In addition we are able to offer you a competitive salary and an attractive bonus package which will suit your qualifications.

If you are interested, please send a complete CV indicating your full career details and salary requirements to:

**Aventis Pharma Deutschland GmbH**  
Human Resources Recruitment & Marketing  
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D-65926 Frankfurt am Main  
Germany  
E-Mail:  
[ApplicationService.Pharma@Aventis.com](mailto:ApplicationService.Pharma@Aventis.com)

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**For additional information, visit our web site at: [www.neogenesis.com](http://www.neogenesis.com)**

## Director of Business Development

**Job Code: BD-120**

Reporting to the Vice President of Business Development, you will be responsible for identifying and managing new business opportunities with biotech and pharmaceutical companies including; management of proposal developmental activities, participation in contract negotiation, client presentations, targeting of new accounts, leading business development teams as well as growing relationships with assigned accounts. Requires a strong knowledge of the pharmaceuticals and biotech industries. MS/Ph.D. in Chemistry or Life Sciences. Minimum 5 years of experience in business development in a biotech and/or pharma industry is required.

## Program Executives

**Job Code: BD-110**

Seeking several outstanding Program Executives to provide leadership and direction to project teams. These individuals will ensure that project goals are integrated with the business objectives of the company and will be responsible for developing, managing, and advancing a relationship with a partner company. The ideal candidate will have a Ph.D. in Chemistry/Biochemistry/Biology/Pharmacology and 5-10 years of experience in Drug Discovery/Development in a biotech or pharmaceutical company, of which at least 3 years as a Project Leader overseeing a successful Program. Interpersonal savvy is critical, as are excellent communication skills.

## GLOBAL OPPORTUNITIES

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## Group Leader in Drug Design

Institute for Molecular Bioscience

The Institute for Molecular Bioscience (IMB) is one of Australasia's leading research institutes, linking leading edge genomic discovery and bioinformatic facilities with state-of-the-art research to better understand human and animal biology, and to develop new pharmaceuticals, diagnostics, nanotechnologies and disease therapies.

An experienced and dynamic individual is required for a Group Leader position in Drug Design using molecular modelling/computational chemistry and structural approaches.

**Contact:** visit [www.jobsatUQ.net](http://www.jobsatUQ.net) to obtain a copy of the position description and selection criteria.

**Reference No:** 12088730901.



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Sr Scientist/Group Leader, Pharmacology & Pre Clinical Studies  
Scientist/Sr Scientist, Medicinal Chemistry  
Sr Scientist/Group Leader, High Throughput Screening  
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Combinatorial Chemistry PhD Scientist  
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**Contact Singapore, 675 Massachusetts Avenue, 5<sup>th</sup> Floor, Cambridge, MA 02139. Email: [boston@cs.org.sg](mailto:boston@cs.org.sg). Tel: 617-492-9843. Fax: 617-492-9845**

*Contact Singapore*

### Genome Institute of Singapore

Research Scientists – High Throughput Sequencing  
Molecular and Cell Biologists  
Bioinformatics and Statistics  
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### Biotechnology Processing Centre

Process Development  
Proteomics/Mammalian Cell Culture  
Cell/Molecular Biology

### Office of Life Sciences - National University of Singapore

Email: [olskans@nus.edu.sg](mailto:olskans@nus.edu.sg)  
Leaders in research in the following Areas:  
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Infectious Diseases  
Bioinformatics / Artificial Cognition  
Bioengineering  
Experimental Therapeutics  
Immunology  
Genomics / Proteomics / Structural Biology



## ENDOWED CHAIR IN MACROMOLECULAR STRUCTURE AND FUNCTION

### The Ohio State University

The College of Biological Sciences at The Ohio State University seeks applications to fill the faculty position of Ohio Eminent Scholar. The successful applicant for this fully endowed chair will have well-documented research qualifications using biochemical approaches to investigate macromolecular structure and function. Individuals with research interests in proteomics, protein engineering, structure determination, molecular recognition and targeting, signal transduction, or other generally related areas are encouraged to apply; however, more than the specific focus, the quality of the research and promise for future accomplishments will be of primary importance. The successful applicant will be provided with a very competitive salary, ample laboratory space, generous start-up funding for equipment and personnel, and an on-going operating budget.

The Ohio State University has designated the Molecular Life Sciences as an area for research investment, with the College of Biological Sciences, which consists of six academic departments with a total of ~100 faculty members, playing a central role. The Ohio State University, Ohio's flagship institution of higher education, is located in Columbus, a growing and affordable metropolitan area of ~1.5 million people with a stable and diversified economy. Columbus is consistently ranked as one of the most attractive cities in which to live and work. General information about the University, College, and community is available through links at: <http://www.biosci.ohio-state.edu>.

Informal enquiries are encouraged (contact: [swenson.1@osu.edu](mailto:swenson.1@osu.edu)). A curriculum vita, a description of research experience and future plans, and the names and addresses of three individuals who could be contacted to provide supporting information should be sent to the **Eminent Scholar Search Committee, College of Biological Sciences, The Ohio State University, 484 West 12th Ave., Columbus, Ohio 43210**. Applications will be accepted and reviewed continuously.

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# Howard Hughes Medical Institute

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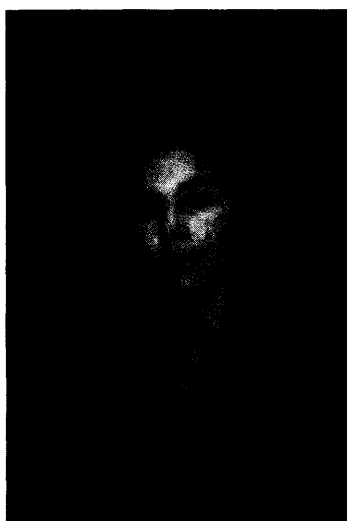


Photo by William K. Geiger

**Angelica L.M. Cadavid**  
**Former HHMI**  
**Predoctoral Fellow**  
**at the University**  
**of Texas–Austin**

The Howard Hughes Medical Institute has established fellowship programs that support training in fundamental biological and biomedical research. Graduate students, medical students, and physicians may be eligible to apply for the programs listed below.

**Predoctoral Fellowships in Biological Sciences** Five years of support for full-time graduate study toward a Ph.D. degree in designated biological sciences or related fields. (Application deadline: November 13, 2001.)

**Research Training Fellowships for Medical Students** Support is awarded for one year of full-time fundamental research in a laboratory at the student's medical school or another institution (except NIH in Bethesda, Maryland). (Application deadline: November 15, 2001.)

**Research Scholars at the National Institutes of Health** Under this joint HHMI–NIH program, medical students in the United States spend an intensive year of research in the intramural program at NIH in Bethesda, Maryland. (Application deadline: January 10, 2002.)



Angelica Cadavid, Ph.D., is interested in how complex multicellular structures arise during development. Her thesis project focused on the fruit fly eye as a system for the genetic dissection of one biochemical pathway that is involved in cell interactions critical to eye morphogenesis. Research on such essential proteins and pathways will contribute to our understanding of many fundamental aspects of cell and developmental biology.



The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and underrepresented minorities to apply.

**For more information: [www.hhmi.org/fellowships](http://www.hhmi.org/fellowships)**

## ASSISTANT PROFESSOR, NEUROBIOLOGY ASSISTANT PROFESSOR, BIOLOGICAL ENGINEERING BIOTECHNOLOGY LABORATORY, THE UNIVERSITY OF BRITISH COLUMBIA

The Biotechnology Laboratory is seeking applications for two tenure-track faculty positions at the level of Assistant Professor.

The Biotechnology Laboratory is an interdisciplinary, interdepartmental scientific research and teaching unit established 14 years ago by Nobel Laureate Michael Smith. There is a strong emphasis on interaction, collaboration and overlap in research interest among the individual investigators' laboratories. The Biotechnology Laboratory offers an exceptional environment in state-of-the-art facilities and is an active partner in developing genome science in British Columbia. Both positions require candidates who can establish a vigorous research program in their fields.

**Neurobiology** Candidates should hold a Ph.D. in Neurobiology/Neurophysiology or related field, a minimum of two years' postdoctoral research experience, and a record of demonstrated success in studying nervous system structure, function and development using the nematode *Caenorhabditis elegans*. The successful candidate will play an integral role in expanding the University's strengths in molecular and genetic neurobiology, have numerous opportunities for collaboration, and will participate in the Neuroscience Graduate Program.

**Biological Engineering** Candidates should hold a Ph.D. in Chemical Engineering or related field, and a record of demonstrated success in collaborative research between engineering and biology. Applicants from a broad range of areas including bioprocessing, biomaterials, tissue engineering, cellular therapy, biomedical modeling, metabolic engineering, the bioengineering of gene therapy, genomics and proteomics, will be considered. Relevant industrial experience and eligibility for registration as a Professional Engineer are desirable. The successful candidate will participate in teaching in the Department of Chemical and Biological Engineering.

Candidates should provide a C.V., a concise statement of research interests, and copies of representative publications. In addition, three letters of recommendation should be sent directly to: **Dr. Philip Hieter, Director, Biotechnology Laboratory, University of British Columbia, 6174 University Blvd., Room 237, Vancouver, BC V6T 1Z3 Canada. Fax: 604-822-2114 or e-mail: biotinfo@interchange.ubc.ca.**



Screening of applicants will begin **November 15, 2001**, and continue until the positions are filled. Expected start date is **July 1, 2002**. For more information, visit our website: <http://www.biotech.ubc.ca>.

UBC hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply. Applicants must identify citizenship and/or immigration status on their application. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.



## The University of Texas at Austin

### Senior Faculty Positions The Institute for Cellular and Molecular Biology

The Institute for Cellular and Molecular Biology invites applications for tenured Associate Professor or Professor positions, including two Endowed Chair positions. Academic appointments will be held in an appropriate academic unit in the College of Natural Sciences. Candidates should have a well established research program involving application of molecular biological and/or biochemical approaches to important biological problems. The positions carry excellent salaries and start-up packages in a supportive, interactive and interdisciplinary research environment.

The Institute provides administrative and financial support for the University-wide Graduate Program in Cell and Molecular Biology and for state-of-the-art core facilities for DNA and protein analysis, electron and confocal microscopy, mouse genetic engineering, DNA microarrays and robotics.

Building on a strong existing faculty, recent hires include Andy Ellington, Ellen Gottlieb, Robin Gutell, Adron Harris, Ken Johnson, Bob Krug, Paul Macdonald, John Sisson, John Tesmer, Tanya Paull, Ben Liu, Vishwanath Iyer, Jon Huibregtse, Edward Marcotte and David Stein.

Austin is located in the Texas hill country and is widely recognized as one of America's most beautiful and livable cities.

Please send curriculum vitae, summary of research interests, and names of at least three referees to:

**Dr. Alan M. Lambowitz, Director**  
**Institute for Cellular and Molecular Biology**  
**The University of Texas at Austin**  
**2500 Speedway**  
**Austin, Texas 78712-1095**

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AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

**DIRECTOR  
PROGRAM IN MOLECULAR CELL BIOLOGY  
RUTGERS UNIVERSITY-NEWARK**

Rutgers University is undertaking a major new multi-disciplinary initiative in molecular cell biology at its Newark campus. We seek an established, well-funded, creative scientist who will bring an established group and/or recruit several new faculty appointees into the Department of Biological Sciences on tenure-track lines. This individual will also play a significant role in recruiting faculty with complementary interests into other science departments and will provide leadership in the biological sciences. A new science building, a portion of which will be devoted to this initiative, is currently being planned. Significant resources will be provided, including state-of-the-art instrumentation, excellent salaries, staff support, and competitive start-up allowances for new hires. The Department of Biological Sciences serves Rutgers University and the New Jersey Institute of Technology (NJIT) and includes faculty from both institutions. Rutgers University-Newark and NJIT are part of a cluster of adjacent institutions in University Heights, including the University of Medicine and Dentistry of New Jersey and the Public Health Research Institute, committed to research in the life sciences. Review of applications will begin on November 15, 2001. Interested individuals are encouraged to submit a letter of interest, Curriculum Vitae, and research statement to: **Dr. Steven J. Diner, Dean, Faculty of Arts and Sciences, Rutgers University, 325 Hill Hall, University Heights, Newark, New Jersey 07102 USA. E-mail inquiries: [cbsearch@andromeda.rutgers.edu](mailto:cbsearch@andromeda.rutgers.edu).**

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**UNIVERSITY OF PITTSBURGH  
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IN EXPERIMENTAL BIOLOGICAL PHYSICS**

The Department of Physics and Astronomy of the University of Pittsburgh is searching for an established experimental researcher in biological physics to assume a Mellon Professorship. This tenured appointment, which is subject to budgetary approval, would begin with the Fall Term 2002 or thereafter.

The successful candidate will have an outstanding record of research accomplishments and will likely have an established record as an educator having demonstrated teaching effectiveness at both the graduate and undergraduate levels.

Applicants should also have a demonstrated ability to build and successfully fund a creative, independent and broad-based research program, to provide cohesion with existing efforts and to initiate new directions. Potential for interactions with faculty and researchers in the natural and life sciences, engineering, and the School of Medicine and the Medical Center of the University of Pittsburgh will be considered favorably.

The relevant research can be in any area of biology-inspired physics at the interface between physics and biology. An associated search for a junior faculty member working in biological physics will be constituted as soon as practicable.

Please send a curriculum vitae, bibliography, statement of research interests and proposed directions, and a list of references to: **David Jasnow, Chair, Department of Physics and Astronomy, 100 Allen Hall, University of Pittsburgh, Pittsburgh, PA 15260.** Applications should be received before February 15, 2002 to ensure full consideration. Nominations are welcome.

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Opportunity Employer. Women and members of minority  
groups that are under-represented in academia are especially  
encouraged to apply.*



**Faculty Position in Biochemistry  
Vanderbilt University School of Medicine**

Applications are invited for a position at the rank of Assistant, Associate, or Full Professor. The Department of Biochemistry at the Vanderbilt University School of Medicine is a multi-disciplinary department, including faculty belonging to the following Centers: Vanderbilt-Ingram Cancer Center, Center for Structural Biology, Center in Molecular Toxicology, Center for Cellular and Molecular Neurosciences, Diabetes Center, and Clinical Nutrition Unit. While all areas of modern molecular biochemistry will be considered, preference will be given to individuals studying regulatory mechanisms, including, but not limited to: receptor-mediated signaling, gene expression, proteolysis, and the cell cycle. Applications are also encouraged from individuals using genomic, proteomic, or bioinformatic approaches. Information about the Department, current faculty research interests, Vanderbilt University, and Nashville can be found at: <http://medschool.mc.vanderbilt.edu/biochemistry/html/positions.htm> Members of the search committee can be contacted for additional information: Graham Carpenter, Bruce Carter, Larry Marnett, and Jennifer Pietenpol.

Interested applicants must have completed a Ph.D. and/or M.D. degree as well as postdoctoral training. Applications must be received by December 1, 2001. Submit a curriculum vitae, statement of research interests, and three letters of recommendation either electronically to: [marlene.jayne@mcmail.vanderbilt.edu](mailto:marlene.jayne@mcmail.vanderbilt.edu) or by mail to the following address:

**Search Committee  
Department of Biochemistry  
607 Light Hall  
Vanderbilt University  
Nashville, TN 37232**

**MIT  
FACULTY POSITION**

**Massachusetts Institute of Technology  
Division of Health Sciences and Technology, and  
Department of Electrical Engineering and  
Computer Science**

The Massachusetts Institute of Technology seeks candidates for a tenure-track faculty position offered jointly in the Harvard University-Massachusetts Institute of Technology Division of Health Sciences and Technology (HST) and the MIT Department of Electrical Engineering and Computer Science (EECS).

We seek candidates with backgrounds in interdisciplinary fields of biomedical engineering and/or the biomedical sciences, particularly those with an interest in biomedical technologies, bio/medical informatics, computational biology or biomedical imaging. Faculty duties will include teaching at the undergraduate and graduate levels, research, and supervision of theses. Collaborative opportunities with investigators at MIT, Harvard University, Harvard Medical School and its teaching hospitals are abundant. In addition, with access to an exceptional student body, there are rich opportunities to build an interdisciplinary biomedically-oriented research group. There are currently 320 students enrolled in the HST's degree programs as M.S., Ph.D., and/or M.D. candidates, and 750 students enrolled in EECS's M.S. and Ph.D. programs. We seek candidates who will interact productively with students and faculty in both HST and EECS, thereby fostering interdisciplinary research and teaching.

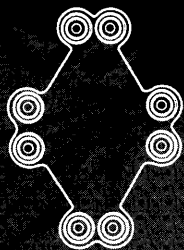
HST and EECS are strongly committed to diversity in their faculties and student populations. We encourage applications from men and women of all demographic backgrounds. All candidates should reply to the address below. The application should include a curriculum vitae, statements of professional interests in both research and teaching, and the names and addresses of three or more individuals who will provide letters of recommendation. Please arrange to have such letters sent directly to the address below. The deadline for receipt of applications is November 1, 2001.

Send applications to: **Martha L. Gray, Ph.D., Edward Hood Taplin Professor of Medical Engineering and Electrical Engineering, Co-Director, Harvard-MIT Division of Health Sciences & Technology, Massachusetts Institute of Technology E25-510, 77 Massachusetts Avenue, Cambridge, MA 02139**



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# EXELIXIS

Exelixis, Inc., is a leading genomics-based company focused on the discovery and development of innovative new drugs for major human diseases. Using our integrated biological platform and expertise in comparative genomics and model system genetics, Exelixis is finding novel, proprietary drug targets. We use aggressive high-throughput screening and chemistry to accelerate these targets through the drug discovery process, developing effective new therapies for the treatment of cancer and other diseases.

## **We have the following exciting career opportunities available:**

### **Research Scientist, Pharmacology**

You will be responsible for the implementation and development of *in vivo* toxicological related animal models, as well as manage a pharmacology lab focused mainly on *in vitro* HTS, *in vivo* toxicity and PK studies. Requires a PhD or equivalent with 2+ years experience in pharmacological and toxicological research on cellular signal transduction, apoptosis, inflammation, organ injury mechanism and drug metabolism. Expertise in pathology preferred. (Job #: 01-141/147)

### **Research Scientist, Molecular Pharmacology**

You will use in-depth knowledge of angiogenesis and endothelial cell biology to develop and implement novel cell-based assays and characterize lead compounds emerging from high-throughput screens against novel angiogenesis targets. You will also contribute to the identification and development of new techniques and platforms for assay development and drug characterization. Requires a PhD or equivalent in cell biology, biochemistry or related field with 3+ years experience in endothelial cell and molecular biology. Experience with fluorescence microscopy and tissue culture and knowledge of modern molecular biology techniques are required. (Job #: 01-120)

### **Research Scientist/Senior Research Scientist, Angiogenesis**

You will be responsible for implementation and development of *in vivo* angiogenesis models relating to tumor angiogenesis and hypoxia. You will use the latest cell and animal genetic techniques to help validate therapeutic targets for anti-tumor angiogenesis. Requires a PhD or equivalent with 3+ years experience in the study of angiogenesis. Experience with various *in vivo/in vitro* angiogenesis models, including cell-based, tissue, and animal models, such as tumor xenograft and/or mouse transgenic, is required. (Job #: 01-173)

### **Assistant/Associate Research Scientist**

#### **Research Scientist**

#### ***C. elegans* Genetics**

You will identify novel therapeutic targets for human pharmaceutical development while utilizing *C. elegans* genetics, comparative genomics, and molecular biology techniques. **Research Scientist** position requires a PhD or equivalent with in-depth *C. elegans* genetics and molecular biology experience. **Assistant/Associate Research Scientist** position requires a BS, MS or equivalent with molecular biology, genetics, microscopy and/or *C. elegans* experience. (Job #: 01-117/174/175)

### **Sr. Research Scientist/Research Scientist, Oncology**

#### **Assistant/Associate Research Scientist, Oncology Cell Biology**

You will play a direct role in the validation of oncology therapeutic gene targets that have been identified in model organism genetic screens. You will design, execute and assist in experiments using cell biology and biochemistry to validate human targets. **Sr. Research Scientist/ Research Scientist** positions require a PhD, MD or equivalent and 5+ years experience in cancer research. Broad knowledge of oncology-related assays, such as cell cycle and apoptosis, strong cell and molecular biology, and biochemistry background required. **Assistant/Associate Research Scientist** positions require a BS, MS or equivalent with 2+ years experience in cell and molecular biology and biochemistry techniques. (Job #: 01-103-105/164-171)

Exelixis offers competitive salaries and benefits, equity participation, and an interactive research setting that recognizes and rewards achievement. Please send your resume/CV to Exelixis, Inc., HR Department; Job # \_\_\_\_; Fax: (650) 837-7226; or Email: [careers@exelixis.com](mailto:careers@exelixis.com). EOE

Please visit our website at  
**[www.exelixis.com](http://www.exelixis.com)**

to view additional exciting career  
opportunities and job descriptions.

### Biochemist and Physical Chemist - The Williams College

Chemistry Department invites applications for two tenure-track positions at the Assistant Professor level for Fall 2002. (A senior appointment is possible in exceptional circumstances.) Preference for the **biochemistry** position will be given to applicants with research interests in experimental biochemistry. Initial teaching assignment in this position, depending upon the successful candidate's subspecialty, will include two courses from: biochemistry, biophysical chemistry, introductory chemistry, and a course for non-science majors. Preference for the **physical chemistry** position will be given to applicants with research interests in experimental physical chemistry; interests in environmental chemistry/analysis will be a plus. Initial teaching assignment in this position, depending upon the successful candidate's subspecialty, will include two courses from: physical chemistry, introductory chemistry, introductory environmental science, and instrumental methods of analysis. A semester teaching load for each position normally includes complete responsibility for one course and two laboratory sections, and supervision of student research projects. Candidates should have a Ph.D. or completed dissertation by September 2002. Postdoctoral experience is preferred. The successful candidates must have a strong commitment both to teaching at the undergraduate level and to developing a productive research program.

Williams College is a highly selective, coeducational liberal arts institution of approximately 230 faculty and 2000 undergraduates, located in northwestern Massachusetts. The Chemistry Department, with 12 faculty members and about 25 majors each year, has excellent facilities for teaching and research. A new 47-million dollar science complex was completed in 2000. The College is actively working to increase the ethnic and gender diversity of its science majors and seeks individuals who can help us meet these goals.

Send resume, undergraduate and graduate transcripts, description of teaching philosophy, description of research projects for undergraduates, and three letters of recommendation to: **Professor David P. Richardson, Chair, Department of Chemistry, Williams College, Williamstown, MA 01267**, by November 27, 2001. For additional information about the Chemistry Department visit our website at <http://www.williams.edu/Chemistry>.

*Williams College is an EO/AA Employer.*

## Androgen Receptor Research

**LIGAND Pharmaceuticals Incorporated** discovers, develops and markets new drugs that address critical-unmet medical needs of patients in the areas of cancer, skin diseases, and men's and women's hormone-related diseases, as well as osteoporosis, metabolic disorders and cardiovascular and inflammatory diseases. The Company's proprietary drug discovery and development programs are based on its leadership position in gene transcription technology, primarily related to Intracellular Receptors (IR) and Signal Transducers and Activators of Transcription (STATs). Currently, we seek an outstanding individual to join us and provide scientific leadership to our Androgen Receptor discovery and drug development program.

### Associate Director/Director

You will be leading a multidisciplinary team dedicated to the discovery and preclinical development of novel drugs that act as modulators of the androgen receptor. You must be a highly qualified MD, PhD, or DVM with a well-recognized reputation on the biology of androgen and other nuclear receptors and their role in men and women's health, HRT, frailty and osteoporosis. Requirements for this position include: ten + years' experience, preferably in the biopharmaceutical industry; familiarity with the role of nuclear receptor signaling pathways in the regulation of development, growth and metabolism; and proven expertise in physiology, pharmacology, cellular and molecular biology of androgen receptors and corresponding models of disease. Knowledge and expertise in bone and muscle biology is highly desirable. You must have excellent leadership, organizational, and presentation skills, proven originality and independence, extensive and successful supervisory experience, and be able to interact well in a team-oriented environment within the company and externally with our pharmaceutical partners.

LIGAND, located in the Torrey Pines area of San Diego, offers an attractive salary and benefits package, including stock options. Please submit your resume to: **LIGAND Pharmaceuticals, Dept. 7400-DIR-SM, 10275 Science Center Drive, San Diego, CA 92121. Fax: (858) 550-5649. E-mail: [jobs@ligand.com](mailto:jobs@ligand.com). EOE.**



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## POSTDOCTORAL POSITION



The Schepens Eye Research Institute, an affiliate of Harvard Medical School and the world's largest independent organization solely devoted to research in the mechanisms of vision and eye diseases, has an immediate opening for a Postdoctoral Fellow. You will conduct research on the molecular biology of corneal endothelial cell cycle. Research is expected to lead to novel therapies to transiently stimulate proliferation to replace cells lost due to trauma or disease. Candidate will have knowledge of signal transduction mechanisms and cell cycle kinetics. Also, knowledge of eye tissue structure and function will be helpful, but not essential. Experience in molecular biology techniques such as gene expression and antisense technology; cell biology techniques such as immunocytochemistry, confocal microscopy, flow cytometry; and tissue culture methods required. Must have a recent Ph.D. or M/Ph.D. and meet eligibility requirements to apply for an NRSA.

Please send curriculum vitae and names of three references to:

**Dr. Nancy Joyce**  
**The Schepens Eye Research Institute**  
**20 Staniford Street**  
**Boston, MA 02114**  
**E-mail: [njoyce@vision.eri.harvard.edu](mailto:njoyce@vision.eri.harvard.edu)**

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## INNOVATE!

Ambion, Inc., is looking for talented individuals with strong skills in RNA-related technologies. Candidates should have a Ph.D. and postdoctoral experience, a strong publication record and an innovative and entrepreneurial spirit. Ambion offers a stimulating scientific environment where scientists have the independence to exercise their creativity.

### CURRENT OPENINGS:

**In situ Hybridization Job #312** : Requires experience in in-situ hybridization or histology.

**RNA Methodology-Job #313** : Requires experience in RNA technologies.

**RNA Isolation Job #314** : Requires an interest in working at the interface of molecular biology and chemistry to develop new technologies for RNA isolation.

**Molecular Diagnostics Job #315** : Requires experience in developing new assays or nucleic acid isolation.

**Pathology-Histology Job #316** : Requires a strong background in the area of histology/pathology or other areas of molecular diagnostics.

Ambion is located in Austin Texas. We offer competitive salaries, benefits, bonus plan and an employee stock option plan. For more information about these and other opportunities or to submit your resume visit:

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THE RNA COMPANY™



## **NATIONAL EYE INSTITUTE**

### **DIRECTOR, DIVISION OF INTRAMURAL RESEARCH**

We seek an outstanding scientist to lead the Division of Intramural Research (DIR) of the National Eye Institute (NEI), National Institutes of Health (NIH), located in Bethesda, Maryland. The Director, DIR, leads a vision research program of national and international scope that is staffed by approximately 240 scientists and support personnel and has an annual budget of more than \$40 million. DIR scientists perform laboratory, translational, and patient-oriented vision research. In addition, the Director, DIR, will be expected to carry out independent laboratory research on the visual system relevant to development, maintenance of normal visual functioning, neurodegeneration, or neuronal rescue or regeneration.

The applicant must be a laboratory scientist with a national and international reputation for excellence. The applicant must possess a Ph.D. or equivalent degree in a biomedical or related field and possess broad knowledge in the range of sciences relevant to the normal and diseased eye and visual system. The Director, DIR, is responsible for creating and maintaining a nurturing research environment which facilitates creativity, collaboration among scientists from different disciplines, and the efficient utilization of resources. Therefore, the applicant should have experience in directing and managing a scientific research program, with responsibility for recruiting and retaining highly capable, culturally diverse employees. Salary ranges from \$120,261 to \$200,000 per year. A recruitment bonus of up to 25% of base pay may be available to a non-federal employee selected for this position, subject to individual approval. A relocation bonus of up to 25% of base pay may be available to a permanent federal employee who must relocate to accept this position, subject to individual approval.

All applications should include the following: a statement of research interests; a career synopsis; a current curriculum vitae and bibliography; and the name and addresses of six references. A list of the requirements and additional information about the position should be obtained by contacting Ms. Wild at the address listed below. Applications should be sent to:

**NIH, National Eye Institute  
Attention: Ms. Cheryl Wild  
Building 31, Room 6A18  
31 Center Drive – MSC 2510  
Bethesda, Maryland 20892-2510**

Applications must be postmarked no later than November 1, 2001.

Applicants with access to E-mail may transmit their materials to the following E-mail address: [CWild@nei.nih.gov](mailto:CWild@nei.nih.gov).

Applicants with access to the Internet's World Wide Web may wish to browse the NIH/NEI Home Page at <http://www.nei.nih.gov/jobs/index.htm>. Application materials may be Faxed to (301) 496-3958

**Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, gender, national origin, political affiliation, marital status, disability, age, sexual orientation, or membership or nonmembership in an employee organization.**

*NIH is an Affirmative Action/Equal Opportunity Employer.  
Women, minorities and individuals with disabilities are encouraged to apply.*

# fellowships

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

## AAAS Science + Technology Policy Fellowships, 2002:03 >>>

**What >>>** 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 \$55,000.

**Who >>>** Applicants must have a Ph.D. 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 ineligible. Approximately 50 fellowships are awarded in 10 different programs. Underrepresented minorities and persons with disabilities are encouraged to apply.

**When >>>** The fellowship year begins September 1, 2002. 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, 2002.**

**Where >>>** 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, the Department of Justice, the Department of Energy and other federal offices.

**Why >>>** 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/NTI Fellows in Global Security         |
| + AAAS/NIH Science Policy Fellows          | + Defense Policy Fellows                      | + Risk Policy Fellows                         |
| + AAAS/NSF Science and Engineering Fellows | + Science, Justice, and Public Policy Fellows | + Roger Revelle Fellows in Global Stewardship |
|  | + Environmental Fellows                       |   |

**How >>>** For application instructions and further information: [www.fellowships.aaas.org](http://www.fellowships.aaas.org). 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)

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





**Walter G. Ross Endowed Chair in Developmental Neuroscience  
University of Miami School of Medicine**

Applications are invited to fill the Walter G. Ross Chair of Developmental Neuroscience at the University of Miami. The Ross Chair will support an internationally recognized neuroscientist with an outstanding record of accomplishment in the general area of neural development. We are especially interested in individuals whose research is targeted to one or more of the following areas:

- initial development of nerve cells from uncommitted stem cells
- neuronal cell survival and protection from injury
- growth and regeneration of neuronal processes
- formation of specific connections between neurons and their targets during development and regeneration
- relationship between basic neuroscience and human neurological diseases

Priority will be given to researchers with the ability to complement and synergize with existing excellent programs in clinical and basic neuroscience at the University. Excellent laboratory space and development funds will be available to the Ross Professor. Rank and salary will be commensurate with experience.

Review of applications will begin October 15, 2001, and will continue until the position is filled. Please send curriculum vitae, statement of research accomplishments and plans, and the names of three references to:

**John L. Bixby, Ph.D., Chair**  
**Ross Professor Search Committee**  
**Department of Pharmacology R-189**  
**University of Miami School of Medicine**  
**1600 NW 10th Avenue**  
**Miami, FL 33136**

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**Boyce Thompson Institute**

**FACULTY POSITIONS IN  
PLANT MOLECULAR  
BIOLOGY / GENOMICS**

The Boyce Thompson Institute for Plant Research, a not-for-profit organization at Cornell University, invites applications for three tenure-track faculty positions, at any level. We are seeking scientists who use molecular, biochemical, genetic, cell biological, genomic and/or proteomic approaches to elucidate mechanisms underlying plant development, plant-microbe/insect interactions, or chemical/molecular ecology. Research emphases of interest include, but are not limited to gene expression, signal transduction, and primary or secondary metabolism.

The successful candidates will establish vigorous, extramurally funded research programs and will have opportunities to collaborate in the Boyce Thompson Institute; they will also be expected to develop close ties with one or more departments or programs at Cornell University. Scientists at the junior level will receive highest consideration, but mid- and senior-level scientists are encouraged to apply. Excellent start-up funds and state-of-the-art genomics and plant growth facilities are available. Review of applications will begin **November 15** and will continue until the positions are filled.

Applicants should send a curriculum vitae, a three to five page statement of research interests, and the names of four references to **Dr. Gary Blissard, Chair, Plant Molecular Biology Search Committee, Boyce Thompson Institute, Ithaca, New York 14853; e-mail: gwb1@cornell.edu.**

*Boyce Thompson Institute is an affirmative action, equal opportunity employer and is committed to increasing the diversity of its faculty and staff. Applications from women and minorities are encouraged.*

**FACULTY POSITIONS (MULTIPLE)  
(RANK OPEN)**

**DEPARTMENT OF MATERIALS SCIENCE AND ENGINEERING  
UNIVERSITY OF ILLINOIS  
AT URBANA-CHAMPAIGN**

At a time of major new hiring, the Department of Materials Science and Engineering at the University of Illinois at Urbana-Champaign invites applications for regular, full time tenure-track or tenured faculty positions in the broad areas of advanced materials research, especially polymers, biomaterials and biomolecular materials, ceramics and nanomaterials. To be considered for a tenured position, the applicant must have recognized national and international stature. All applicants are asked to provide a professional curriculum vitae including teaching experience and interests, a list of publications, and an outline of a few pages describing their proposed program of research. Candidates for tenure-track positions should also request that three (3) letters of reference be sent directly to the department. Candidates for tenured positions should include the names, addresses, e-mail and telephone numbers of at least three (3) references.

Applicants must hold an earned doctorate in an appropriate field. Salary and rank will be commensurate with qualifications. The proposed starting date for these positions is January 2002 or later. To ensure full consideration, applications must be received prior to December 14, 2001. Interviews may take place during the application period, but a final decision will not be made until after the deadline for applications.

Applications should be addressed to:

**Chair, Faculty Search Committee**  
**Department of Materials Science and Engineering**  
**1304 W. Green St.**  
**Urbana, IL 61801**  
**Telephone: (217) 333-1440**  
**Fax: (217) 333-2736**  
**Email: mse@uiuc.edu**

*The University of Illinois is an Affirmative Action,  
Equal Opportunity Employer.*

## POSITIONS OPEN

The Department of Biological Sciences invites applications for three tenure-track positions starting fall 2002. All positions require a Ph.D. Appointments at the **ASSISTANT PROFESSOR** level are preferred, but outstanding candidates with appropriate experience will be considered for appointment at the Associate Professor level. Successful candidates will be expected to develop active research programs involving undergraduates, participate in teaching an introductory course for majors, and teach/develop courses in areas of expertise. They are also expected to participate in activities of the Center for Integrative Natural Science and Mathematics ([website: http://www.cinsam.org/](http://www.cinsam.org/)). Positions are (1) Plant Physiological Ecologist (to teach plant ecology, plant physiology, and other courses in specialty); research emphasis is open but should include use of modern tools on terrestrial ecosystems. (2) Plant Systematist (to teach plant systematics, general botany, dendrology, and other courses in specialty); research emphasis is open but preference will be given to individuals with mastery of classical systematics techniques as well as modern biochemical and molecular tools. An added responsibility will be to serve as Curator of a growing herbarium (about 35,000 specimens). (3) Environmental Toxicologist (to direct program/advise students in an established environmental science program); develop/teach courses in environmental science, toxicology, and other courses in specialty. Research emphasis is open but preference will be given to individuals with molecular capabilities and interest in local/regional concerns. Detailed descriptions of each position plus departmental information may be found on the [website: http://www.nku.edu/~biosci/](http://www.nku.edu/~biosci/). Send letter of application; brief statement of professional goals; statements of teaching/research philosophy; curriculum vitae; transcripts; and names, addresses, telephone numbers, and e-mail addresses of three references to: **(Name of Position) Search Committee, Department of Biological Sciences, Northern Kentucky University, Highland Heights, KY 41099**. All application materials must be received by November 15, 2001. *Northern Kentucky University is an Affirmative Action/Equal Opportunity Employer and actively seeks applications from minorities and women.*

### FACULTY POSITION BACTERIOLOGY, MYCOLOGY, OR PARASITOLOGY

The Department of Microbiology at the University of Colorado Health Sciences Center in Denver invites applications for a tenure-track appointment as an **ASSISTANT, ASSOCIATE, or FULL PROFESSOR**. Candidates who work on molecular analysis of pathogenic mechanisms and/or host-parasite interactions are particularly encouraged to apply. The faculty teaches medical students and participates in graduate programs in microbiology, molecular biology, and biomedical sciences for Ph.D. and M.D./Ph.D. students. Assistant Professor candidates are expected to develop independent, externally funded research programs. Candidates for Associate Professor or Professor must have established research programs and external funding. The academic environment, newly renovated research facilities, and start-up support are excellent. Rank and salary are commensurate with training and experience. Requirements include a Ph.D., M.D., or equivalent degree; experience in microbiology or a closely related field; at least two years of postdoctoral experience; and a strong record of peer-reviewed publications. All candidates should submit curriculum vitae; research plan; and names, mailing addresses, telephone numbers, and e-mail addresses of three professional references. Associate Professor and Professor candidates must also list their active research grants and pending grant applications. Send correspondence to: **Faculty Search Committee Chair, Department of Microbiology, Campus Box B175, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262**. Review of applications will begin immediately and continue until an appointment is made or the search is terminated. *The UCHSC is committed to Equal Opportunity and Affirmative Action.*

## POSITIONS OPEN



### FACULTY POSITIONS Developmental, Cell, and Molecular Biology Department of Biology

The Department of Biology at Duke University invites applications for two tenure-track/tenured faculty positions at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** rank starting September 1, 2002. We seek applicants in two areas: Plant developmental, cell, and molecular biology. We are interested in applicants who conduct exciting research in plant developmental, cell, and molecular biology.

Cellular and developmental biology: Outstanding applicants in any area of cellular and developmental biology will be considered but we are particularly interested in those who work with nonmammalian model systems.

These positions are a part of an ongoing expansion of the Developmental, Cell, and Molecular Biology group within the Department of Biology (for more information, see [website: http://www.dcm.b.duke.edu](http://www.dcm.b.duke.edu)). We seek applicants who have made important research contributions, have the ability to establish a vigorous research program, and have an interest in graduate and undergraduate education. The successful candidates will have the opportunity to join universitywide graduate programs in Cell and Molecular Biology, Genetics, and the newly established Program in Developmental Biology.

Applicants should provide curriculum vitae, a two-to-four-page description of present and future research, reprints of recent publications, a one-page statement of teaching experience/interests, and arrange for three letters of recommendation to be sent to either: **Plant Biology Search or Cellular and Developmental Biology Search, B343 Levine Science Research Center, Duke University, Durham, NC 27708-1000**. Review of applications will begin on November 15, 2001. *Duke University is an Affirmative Action/Equal Opportunity Employer.*

The Department of Microbiology and Immunology at the SUNY Upstate Medical University is recruiting new faculty at the rank of **ASSISTANT or ASSOCIATE PROFESSOR**. Candidates should have a M.D., Ph.D., or equivalent and have sufficient experience to establish an independent, funded research program in basic microbiology, virology, or immunology. Applicants with research interests in the molecular mechanisms of microbial pathogenesis are encouraged to apply. Competitive salary and start-up packages are available including newly renovated laboratory and office space. Additional information about the Department and the prospective laboratory space can be found at our [website: http://www.upstate.edu/microb/](http://www.upstate.edu/microb/). Applications should be received by November 15, 2001, to receive full consideration but the search will continue until all positions are filled. Send curriculum vitae, summary of research interests, and three letters of reference to: **Steven Taffet, Ph.D., Chair, Faculty Search Committee, Department of Microbiology and Immunology, SUNY Upstate Medical University, 750 East Adams Street, Syracuse, NY 13210**. *The Upstate Medical University is an Affirmative Action/Equal Opportunity Employer.*

Tenure-track **ASSISTANT PROFESSOR** of animal physiology. The Biology Department of the University of Colorado at Denver seeks a Ph.D. Physiologist to begin August 12, 2002. Candidates will be expected to teach human physiology and two specialty courses (four courses per year) and to develop an active research program. Review begins December 15, 2001. For more information, a detailed job description, and application procedures, see [website: http://carbon.cudenver.edu/public/biology](http://carbon.cudenver.edu/public/biology). *Equal Employment Opportunity/Minorities/Women/Disabled/Veterans. Colorado Open Records Act applies.*

## POSITIONS OPEN

### TENURE-TRACK POSITIONS BIOLOGY

Wellesley College, a preeminent liberal arts college for women with a long-standing tradition of excellence in the sciences, has two entry-level, tenure-track positions available in cell biology and animal systems physiology to begin July 1, 2002.

The Department of Biological Sciences invites applications from broadly trained Cell Biologists. Teaching responsibilities would include introductory cell biology, cell physiology, and an advanced cell biology course in the candidate's area of specialization. Candidates with expertise in the area of cell signaling, immunology, or developmental genetics are of particular interest.

The Department of Biological Sciences also invites applications from broadly trained Animal Systems Physiologists. Teaching responsibilities would include introductory organismal or human biology, an intermediate physiology course, and an advanced course in the candidate's area of specialization. Candidates with expertise in the areas of systems physiology, environmental/ecological physiology, or endocrinology are of particular interest.

The successful candidates must have a commitment to teaching excellence, will be expected to develop a research program that involves undergraduates, and will compete for extramural funding. Qualifications include a Ph.D. and postdoctoral training. Interested individuals should send curriculum vitae, a list of undergraduate and graduate biology courses completed, statement of research and teaching interests, and three letters of recommendation to: **Dr. Barbara S. Beltz, Department of Biological Sciences, Wellesley College, Wellesley, MA 02481**. Applications will be accepted until December 1, 2001, but will be reviewed as they are received. *Wellesley College is an Equal Opportunity/Affirmative Action Educational Institution and Employer; successful candidates must be able to work effectively in a culturally diverse environment. Applications from women, minorities, veterans, and candidates with disabilities are encouraged.*

### CHAIRPERSON

Western Michigan University invites applications for the position of Chair of the Department of Biological Sciences beginning fall 2002. The Department, currently with a faculty of 19, provides a broad integrative biology program leading to B.Sc., M.S., and Ph.D. degrees. Current NIH-, NSF- and USDA-supported research involves students at all levels and encompasses topics across the biological sciences. The successful candidate is expected to provide leadership for the research, teaching, and service missions of the Department. The candidate is also expected to interact successfully with colleagues having interests that span molecular, cellular, and organismal levels (see [website: http://www.wmich.edu/bios](http://www.wmich.edu/bios)). The candidate must have an established, Investigator-initiated research program and is expected to maintain extramural funding at Western Michigan University.

The candidate will be a nationally recognized scholar and broadly trained Biologist with a substantial history of extramurally funded, independent research. The successful candidate will possess strong administrative, leadership, and interpersonal skills and will also demonstrate a commitment to teaching excellence. Candidates must currently hold tenure in an academic department, have credentials consistent with the rank of **FULL PROFESSOR**, and demonstrate willingness to encourage the independent scholarly activities of faculty.

Send a letter of application, curriculum vitae, statement of research interests, and names of five persons who may be contacted as references to: **Dr. Alexander Enyedi, Search Committee Chair, Department of Biological Sciences, 1903 West Michigan Avenue, Kalamazoo, MI 49008-5410**. E-mail: [enyedi@wmich.edu](mailto:enyedi@wmich.edu). Review of applications will begin November 15, 2001, and continue until the position is filled. *Western Michigan University, a student-centered research university, encourages applications from under-represented minorities.*





**MAYO CLINIC**  
**Postdoctoral Training in**  
**Cardiovascular Research**  
**NIH-Training Grant Positions**  
**Foundation-Supported Positions**

Opportunities exist to study cardiovascular biology and disease in the laboratory of an NIH-funded investigator at the Mayo Clinic in Rochester, MN. Candidates with an M.D. or Ph.D. may apply. American citizenship or permanent residency is required for the NIH-Training Grant positions. Outstanding foreign applicants with previous research experience will be considered for Foundation-Supported positions. The Faculty and research areas include:

**J.C. Burnett, Jr., MD** – The natriuretic peptides and other humoral factors in heart failure and atherosclerosis

**M.M. Redfield, MD** – Diastolic heart failure and humoral control of ventricular function in hypertension and heart failure

**R.D. Simari, MD** – Vascular biology and gene transfer for cardiovascular diseases

**A. Lerman, MD** – Endothelial function, coronary physiology and imaging

**T.M. Olson, MD** – Genetic basis of cardiovascular diseases

**V.L. Roger, MD** – Population studies of coronary disease

**R.J. Rodeheffer, MD** – Epidemiology of heart failure

**A. Terzic, MD, PhD** – Ion channel biology, bioenergetics and nuclear transport in the heart

**V.K. Somers, MD, PhD** – Neurohumoral, vascular and metabolic mechanisms linking normal and disordered sleep to cardiac and vascular disease

Salary is determined by the successful candidate's experience. An attractive benefit package is offered. Mayo Clinic Rochester is a non-profit, physician led, clinical practice with education and research in a unified multi-campus system.

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

**M.M. Redfield, MD**  
**Cardiorenal Laboratory**  
**Guggenheim 9**  
**Mayo Clinic**  
**200 First Street, SW**  
**Rochester, MN 55905**

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

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The best is getting even better! As the world's largest pharmaceutical research enterprise, Pfizer is dedicated to providing the best innovations in medicine while pursuing tomorrow's discoveries in research and development. With an R&D budget of \$5.1 billion, our team has spurred Pfizer's exceptional performance in 30

countries and across 6 continents. If you share our dedication to discovering, developing and delivering medicines to improve the health of both people and animals worldwide, we want yours to be the newest Face of Pfizer. Consider the following opportunities at Pfizer Global Research and Development facilities in La Jolla, California, and Groton, Connecticut.

### Senior Biochemist/Group Leader (La Jolla)

In this role, you will work in a multidisciplinary project environment with chemists, protein crystallographers, computational chemists, and biologists to discover novel drugs using combinatorial chemistry and structure-based drug design. Responsibilities include implementing novel assay technologies, conducting enzyme and inhibitor characterization and guiding project teams in the use of such data in drug design to contribute to our expanding drug discovery pipeline in the therapeutic areas of Oncology, Antivirals, Ophthalmology, Diabetes and Obesity. This position requires a PhD in Biochemistry or a related field and 10 years experience in quantitative enzymology, protein chemistry, biophysical techniques, and structural biology. Req. #01-0673-SV135ZH

### Assistant/Associate Scientist, Virology (La Jolla)

As a member of our expanding Virology team, you will participate in research aimed at the discovery of novel therapeutic antiviral agents. Responsibilities include applying basic virology techniques, conducting cell culture and assay development, and providing expertise in molecular biology and biochemistry lab techniques. This position requires a BS/MS and experience with infectious HIV, positive strand RNA viruses and automation for high-throughput screening. Req. #01-0510-128AP

### Research Scientist/Senior Research Scientist/Group Leader, Virology (La Jolla)

We are seeking experienced virologists to perform experimentation and direct internal and external collaboration in order to discover, identify and evaluate preclinical antiviral compounds and to support the clinical development of antiviral drugs. This position requires a PhD in Virology or Molecular Biology and a comprehensive knowledge of virology as it applies to molecular biology and/or biochemistry. Experience with positive strand RNA virology or HIV antiviral drug discovery and development is preferred. Req. #01-0729-SV128AP

### Assistant Scientist I, Biology (Groton)

We are seeking a BA/BS-level scientist to investigate the metabolic effects of hormones or test compounds on cells in culture as well as in various in vivo models of obesity. Primary responsibilities include conducting detailed analysis of hormone receptor binding assays, using either tissues, cells, partially purified sub-cellular components or recombinant proteins; preparing extracts from cells or tissues; and carrying out biochemical analysis of plasma, tissue or cell extracts for metabolic substrates, enzymes, or specific protein expression. In addition to a BA/BS (MS preferred), you must have 3+ years experience and the ability to create and maintain stable cell lines using standard tissue culture techniques. A demonstrated knowledge of standard molecular biology techniques is desirable. Req. #14Jun0105609

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



Life is our life's work.

## 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 Institute of Genetic Medicine. We are especially interested in candidates with a focus on the genetic control of differentiation of embryonic stem cells to specific lineages, genetic reprogramming of adult differentiated cells, somatic cell nuclear transfer, and microarray assessment of mammalian gene expression. 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 Institute 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 that includes faculty from the Weill Medical College and the Sloan-Kettering Institute and in the Tri-Institutional M.D./Ph.D. program that 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.*

### EXPERIMENTAL PARASITOLOGIST

The University of Illinois at Urbana-Champaign (UIUC) announces a full-time, tenure-track **ASSISTANT OR ASSOCIATE PROFESSOR** position in experimental parasitology within the Department of Veterinary Pathobiology in the College of Veterinary Medicine available January 1, 2002, or thereafter. The successful applicant must have a Ph.D., M.D./Ph.D., or D.V.M./Ph.D. degree with advanced academic training or postdoctoral experience in experimental parasitology. Such training could encompass but would not be limited to immunoparasitology and molecular parasitology. Duties will include the development of a strong research program, teaching parasitology to veterinary and graduate students, and providing limited diagnostic parasitology service through the Veterinary Diagnostic Laboratory. Salary is negotiable and commensurate with qualifications. Special consideration may be given to applicants with demonstrable interest in veterinary parasitology and whose research interests will strengthen current departmental research priorities in infectious diseases, drug efficacy testing, and parasite control. There are opportunities for collaboration with other departments within the College as well as departments in other colleges at UIUC.

Letters of application, curriculum vitae, and the names of three references should be sent to: **Dr. A. Paul, Chair, Parasitologist Search Committee, Department of Veterinary Pathobiology, College of Veterinary Medicine, 2001 South Lincoln Avenue, Urbana, IL 61802. Telephone: 217-333-2907.** The letter of application should include a one-to-two-page description of research interests and future plans. To ensure full consideration, all materials should be received by November 1, 2001.

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

## POSITIONS OPEN



### DIRECTOR Center for Bioinformatics and Computational Biology University of Maryland, College Park

The University of Maryland, College Park, invites applications for the position of Director of the newly established Center for Bioinformatics and Computational Biology.

The campus has committed substantial resources to the Center including funds for the recruitment of nine new faculty. It is anticipated that the primary specialization areas of the faculty in the Center will collectively span the fields of computer science, mathematics and statistics, molecular biology, molecular evolution and phylogeny, and biochemistry.

The Director will be an outstanding Scientist who will play a leadership role in developing and implementing a vision for the Center leading to nationally visible research programs in selected areas of computational genomics, proteomics, and molecular evolution. Candidates for this position must have an established international reputation in interdisciplinary research with strong leadership skills. The appointment will be made at the **FULL PROFESSOR** level and will be joint with one or more of the related academic departments on campus. To apply, send a letter of application, curriculum vitae, and URL for additional information to e-mail: [cecilia@umiacs.umd.edu](mailto:cecilia@umiacs.umd.edu) and have at least five letters of recommendation sent to:

**Cecilia Kullman  
Center for Bioinformatics and  
Computational Biology  
Institute for Advanced Computer Studies  
2131 A. V. Williams Building  
University of Maryland  
College Park, MD 20742  
Website:**

<http://www.umiacs.umd.edu/centers/bio.htm>

Applications will be accepted until the position is filled. *The University of Maryland is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

### ENDOWED PROFESSORSHIP PLANT MOLECULAR GENETICS

The Section of Molecular Cell and Developmental Biology at The University of Texas at Austin seeks an internationally recognized Scientist currently of **ASSOCIATE** or **FULL PROFESSORIAL** rank to hold the D. J. Sibley Centennial Professorship in plant molecular genetics. The successful candidate will also be eligible for affiliation with the Institute for Cellular and Molecular Biology, which provides state-of-the-art facilities and supports an excellent graduate program. The molecular biology community at UT Austin is in an exciting phase of growth with recent hires in cell biology, developmental biology, structural biology, and related areas.

Applications will be considered from 29 October 2001 until a suitable candidate is selected. Applicants should send their curriculum vitae, statement of research and teaching interests, and representative publications as well as the names and contact information of at least three reviewers to:

**Dr. Stan Roux  
Chairman, Search Committee  
Section of Molecular Cell and  
Developmental Biology  
University of Texas  
BIO 311, 205W 24th Street  
Austin, TX 78712**

**Websites:**  
<http://www.biosci.utexas.edu/MCDB/>  
<http://www.icmb.utexas.edu/>

*The University of Texas, Austin, is an Equal Opportunity Employer. Qualified women and minorities are encouraged to apply.*

## POSITIONS OPEN

### FACULTY POSITIONS CARDIOVASCULAR BIOLOGY

The Department of Pharmacology and the newly established Institute for Cardiovascular Research (ICR) at the SUNY Upstate Medical University invite applications for two tenure-track faculty positions at the **ASSISTANT/ASSOCIATE PROFESSOR** level. We seek two outstanding individuals who will be expected to develop exciting and independent research programs as well as to contribute to both graduate and medical education in pharmacology. The ICR focuses on research of mechanisms of cell-to-cell communication, cardiac arrhythmias, heart failure/cardiomyopathies, and developmental cardiology and thrombosis from the gene to the whole organ level. In addition, the ICR serves as a forum for basic researchers and Physician-Scientists with expertise in the study of cardiovascular diseases to interact and collaborate as well as to share information and resources. It is a very fertile environment for nurturing young, independent Investigators through the establishment of multidisciplinary teams. Individuals with expertise in molecular genetics, structural biology, and electrophysiology as well as in the use of fluorescent probes (at the organ and cellular levels) and implantable devices are encouraged to apply. For details of current departmental research programs and faculty, see **website: <http://www.upstate.edu/pharm/>**. Requirements for each position are a Ph.D. degree or equivalent, postdoctoral experience, and an excellent record of productivity. Salaries are competitive at the national level. In addition, modern laboratory space, core facilities, and highly competitive start-up packages will be provided by the ICR. Send applications including a statement of research interests and goals, curriculum vitae, and three letters of reference to: **José Jalife, M.D., Chair, Department of Pharmacology, SUNY Upstate Medical University, 750 East Adams Street, Syracuse, NY 13210.** Review of applications will commence immediately. *An Affirmative Action/Equal Employment Opportunity/Americans With Disabilities Act Employer committed to excellence through diversity.*

### INSTRUCTOR DNA, Forensics

The Department of Biological Sciences at Duquesne University (**website: <http://www.science.duq.edu>**) has a position available at the rank of Instructor (nontenure track, renewable). Ph.D. or equivalent experience required. The candidate's responsibilities will be to develop and administer a new course in population genetics and DNA methods in the forensic science program (**website: <http://www.law.duq.edu>**), to participate in other advanced undergraduate laboratory courses in biology and to supervise students in the use of departmental equipment. Experience with DNA sequencing/fragment analysis preferred.

Evaluation of applications will begin November 1, 2001, and will continue until the position is filled. Interested candidates should send curriculum vitae and three letters of reference to: **Dr. David Lampe, Forensic Biology Search Committee, Department of Biological Sciences, Duquesne University, 600 Forbes Avenue, Pittsburgh, PA 15282.** *Equal Opportunity Employer.*

**ASSISTANT PROFESSOR** of biology. Tenure-track, nine-month position beginning August 2002. Oxford College (**website: <http://www.emory.edu/OXFORD>**), a two-year division of Emory University, is located 38 miles east of Atlanta, Georgia. Required: Doctorate in biological sciences and strong commitment to teaching first- and second-year students in a liberal arts, residential context. Teaching responsibilities: introductory biology, genetics, and anatomy/physiology. Send curriculum vitae; letter describing teaching experience and teaching philosophy; official transcripts; and contact information for three references by November 19, 2001, to: **Dr. Evelyn Bailey, Chair, Biology Chair, Oxford College of Emory University, Oxford, GA 30054.** *Affirmative Action/Equal Opportunity Employer.*



**Georgia Institute  
of Technology**

**GEORGIA INSTITUTE OF  
TECHNOLOGY  
DEAN OF ENGINEERING**

The Georgia Institute of Technology invites applications and nominations for the position of the Dean of the College of Engineering. The new Dean will lead the Institute's strongest academic unit and one of the nation's top-ranked colleges of engineering. Through its nine on-campus schools, its international programs in France and Singapore and the Georgia Tech Regional Engineering Program, the College of Engineering offers undergraduate and graduate degrees in 23 fields spanning traditional disciplinary and emerging multi-disciplinary areas. For the past several years, the College has granted more total degrees in engineering, more degrees to women engineers, and more graduate degrees to African-American engineers than any other college of engineering in the country.

The new Dean must have a strong commitment to education, an outstanding personal record of research, ability to work well with both faculty and other administrators, and a clear understanding of education and R&D policies and how to influence those policies. He or she will be expected to provide strong leadership in development activities for the College and strong support for Georgia Tech's pre-eminent role in economic development within the State of Georgia as well as nationally and internationally.

The Georgia Institute of Technology is situated on an attractive campus in the heart of Atlanta, a vibrant and diverse city with great economic and cultural strengths. The Institute is a member of the University System of Georgia and the Georgia Research Alliance. The College of Engineering at Georgia Tech is the only public engineering college in the state. For more information, please consult the search web site at: [www.coe.gatech.edu/deansearch](http://www.coe.gatech.edu/deansearch).

The search is commencing immediately and will continue until the position is filled. It is expected that the new Dean of the College of Engineering will be selected by the winter of 2002. Georgia Tech is being assisted in this search by A. T. Kearney, Inc. Nominations and applications (to include detailed résumé, reference list, and other supporting documentation) should be sent, in confidence and preferably electronically, to the **Dean of Engineering Search Committee c/o: Shelly Storbeck, Managing Director and Vice President, A.T. Kearney Education Practice, 333 John Carlyle Street, Alexandria, VA 22314, Phone: 703/739-4613, Fax: 703/518-1782, Email: GTDean@atkearney.com**

*Georgia Tech is an Equal Opportunity Employer.*



**Tenure-Track Faculty Positions**

**School of Medicine, Department of Microbiology  
Bacterial and Viral Pathogenesis**

The Department of Microbiology of the University of Pennsylvania School of Medicine is seeking applicants for at least two tenure-track faculty at the level of Assistant Professor/Associate Professor or above. Academic rank will be commensurate with credentials and experience. We are seeking applicants who are conducting research in bacteria or viruses, especially in the areas of pathogenesis or genomics, to join an active group of investigators at the University. The position offers an attractive start-up package, newly renovated laboratory space, and an outstanding research environment. Candidates should have a Ph.D. or M.D. degree, a strong record of research accomplishments, and an interest in graduate and medical education. Applicants should submit a curriculum vitae, a statement of current and future research interests, and arrange to have three letters of reference sent by January 1, 2002 to:



**Search Committee,  
Department of Microbiology,  
University of Pennsylvania,  
225 Johnson Pavilion,  
Philadelphia, PA 19104-6076**

*The University of Pennsylvania is an affirmative action/ equal opportunity employer. We strongly encourage applications from women and under-represented minorities.*



**Explore Your  
Potential**

**Postdoctoral Fellowships**

**Van Andel Research Institute (VARI)**

is an independent, not-for-profit organization building programs of basic science in the battle against cancer. Our investigators use cutting-edge technology and equipment, and have access to our core facilities in Monoclonal Antibody Production, Microarray Technology, Mouse Germline Modification, and Analytical, Cellular and Molecular Microscopy. Postdoctoral Fellowships are currently available for those who are motivated by a vision of excellence.

**Faculty Includes:**

**George F. Vande Woude, PhD – (Director)**

**Molecular Basis of Cancer**

**Sara A. Courtneidge, PhD – (Deputy Director)**

**Signal Regulation and Cancer**

**Art S. Alberts, PhD – Cell Structure and Signal Integration**

**Brian Cao, MD – Monoclonal Antibody Production**

**Nick S. Duesbery, PhD – Developmental Cell Biology**

**Brian B. Haab, PhD – Microarray Technology**

**Han-Mo Koo, PhD – Cancer Pharmacogenetics**

**Cindy K. Miranti, PhD – Integrin Signaling and**

**Tumorigenesis**

**James H. Resau, PhD – Analytical, Cellular & Molecular**

**Microscopy**

**Pamela J. Swiatek, PhD – Mouse Germline Modification**

**Bin Tean Teh, MD, PhD – Cancer Genetics**

**Craig P. Webb, PhD – Tumor Metastasis and Angiogenesis**

**Michael D. Weinreich, PhD – Chromosome Replication**

**Bart O. Williams, PhD – Cell Signaling and Carcinogenesis**

**Nian Zhang, PhD – Mammalian Developmental Genetics**

Fellowships are awarded on an equal opportunity basis to recent recipients of a PhD, MD or equivalent biological or biochemical science degree. VARI offers a competitive salary and a comprehensive benefit package that includes health, life and disability insurance plus a 401K.

Although applications are accepted at any time, candidates are encouraged to apply for open positions well in advance of their availability dates. If interested, send a letter describing your research interests, curriculum vitae, plus names and addresses of three references to:

**(Investigator's Name)**

**Van Andel Research Institute**

**333 Bostwick N.E.**

**Grand Rapids, MI 49503**

Visit our Web site at [www.vari.org](http://www.vari.org) for additional information about our organization. VARI is an Equal Opportunity Employer.



**Van Andel Research Institute®**

**Leaders in Discovery**

## POSITIONS OPEN

### TWO ASSISTANT PROFESSOR POSITIONS

The University of Mississippi, Department of Biology, invites applications for two Assistant Professor positions (tenure track) to complement the Department research focus in ecology, evolution, and conservation. Both appointments require the Ph.D. in biological sciences or a related discipline and demonstrated excellence in research and teaching. Successful candidates will be expected to establish extramurally funded research programs involving Doctoral training. In addition to specific duties listed below, the successful candidates will teach nonmajors biology courses on rotation, advise undergraduate students, direct graduate and undergraduate research, and provide service to the Department and the University. (1) Vertebrate physiology: Candidates having molecular/cellular or whole animal approaches to the study of vertebrate physiological processes within an environmental context are especially desirable. Those with a comparative focus will be considered. The incumbent will teach general physiology and courses in specialty. (2) Population genetics: We seek an individual who uses contemporary mathematical and molecular techniques in the study of population genetics. The incumbent will teach population genetics, general genetics (on rotation), and courses in specialty. Submit (1) statement of research and teaching interests and philosophy, (2) curriculum vitae, (3) reprints of up to five recent published or submitted papers, (4) evidence of teaching effectiveness, and (5) names and postal and e-mail addresses of four references to: **Dr. Glenn Parsons** (physiology) or **Dr. Richard Buchholz** (population genetics), Department of Biology, P.O. Box 1848, University of Mississippi, University, MS 38677-1848. Website: <http://www.olemiss.edu>. Materials may be submitted electronically to e-mail: [biology@olemiss.edu](mailto:biology@olemiss.edu). Positions available fall 2002. Review of applications begins 1 October and continues until positions are filled. *The University of Mississippi is an Affirmative Action/Americans with Disabilities Act/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.*

### FACULTY POSITIONS

#### Genomics, Proteinomics, and Gene Regulation Temple University

The College of Science and Technology of Temple University is inviting applications or nominations for multiple faculty positions in the Center of Biotechnology with tenure-track appointments in the Department of Biology. As a result of a major basic science expansion, nine faculty members have joined/are joining the Department of Biology, which now has peer-reviewed grant support in excess of \$10 million per year. Faculty members will be expected to conduct high-quality funded research and to contribute to Temple's educational mission at both the undergraduate and graduate levels. The levels of academic appointment and decisions concerning a tenured appointment will be based on levels of research and teaching accomplishments. Applications for **ASSOCIATE PROFESSOR** or **PROFESSOR** must have a research program supported by external peer-reviewed grant support and a substantial publication record. Strengths in the life sciences at Temple include the areas of molecular biology, neurobiology, virology, neurovirology, cell biology, genetics, and biochemistry. Emphasis in the current search will be placed on the applicant's ability to contribute to an interdisciplinary approach to genomics, proteomics, and gene regulation. Applications should include curriculum vitae, publication list, statements of recent research achievements and research plans, and teaching experience and philosophy. Please include the names, addresses, and telephone numbers of four references. Materials should be addressed to: **Dr. Ralph Hillman**, Chair, Biotechnology Search Committee, College of Science and Technology, Room 409 A, Barton Hall, Temple University, Philadelphia, PA 19122. Additional information can be obtained at website: <http://www.temple.edu/biology>.

*Temple University is an Equal Opportunity/Affirmative Action Employer. Applications from women and members of underrepresented minorities are encouraged.*

## POSITIONS OPEN



### SYSTEMATIC BIOLOGIST

The Department of Biology, University of Miami, invites applications for a tenure-track position in systematic biology at the rank of **ASSISTANT PROFESSOR**. Candidates must have a Ph.D. or equivalent degree and will be expected to establish an independent research program and to teach at the undergraduate and graduate levels. We encourage applications from persons working with plants and with interests in conservation biology. Departmental strengths lie in tropical biology, evolution, ecology, and behavior. The Department has cooperative relationships with Fairchild Tropical Gardens, Everglades National Park, and the Smithsonian Tropical Research Institute and is a founding member of the Organization for Tropical Studies. Applications will be reviewed beginning 15 January 2002. Applicants should send a statement of research interests and plans, curriculum vitae, representative publications, and the names and addresses of three references to: **Dr. Theodore H. Fleming**, Systematic Biologist Search, Department of Biology, University of Miami, P.O. Box 249118, Coral Gables, FL 33124. *The University of Miami is an Affirmative Action/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.*

### ASSISTANT PROFESSOR Molecular Endocrinology

The Division of Molecular Endocrinology, Department of Physiology, Faculty of Medicine, University of Manitoba, invites applications for a full-time, tenure-track position at the level of **ASSISTANT PROFESSOR** commencing July 1, 2002, or as soon thereafter as possible. Applicants must hold a Ph.D. or equivalent degree and possess a strong research record in an area of molecular endocrinology. The successful candidate is expected to establish and maintain an externally funded research program and contribute to graduate and undergraduate teaching. Applicants should submit a cover letter; curriculum vitae; description of research goals; and the names and contact information of three references by January 15, 2002, to: **Dr. Robert Shiu**, Department of Physiology, Faculty of Medicine, University of Manitoba, 730 William Avenue, Winnipeg, Manitoba R3E 3J7 Canada. Website: <http://www.umanitoba.ca/faculties/medicine/physiology/>. *In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. The University of Manitoba encourages applications from qualified women and men including members of visible minorities, aboriginal peoples, and persons with disabilities.*

**ASSISTANT PROFESSOR**, animal biology. Augustana College invites applications for a tenure-track position beginning in September 2002. The successful applicant for this position will participate with other faculty members in teaching introductory biology courses for majors and nonmajors and will teach an advanced course in his/her area of expertise. The successful candidate will be expected to direct undergraduates in publishable research and to secure extramural funding to support that research. Qualified applicants must possess a Ph.D. in animal biology or ecology. An interest in evolution and/or remote sensing is a plus. A commitment to scholarly and professional growth and to the mission of a church-related, liberal arts college is expected. The EROS Data Center of the USGS is located 15 miles from the college, providing opportunity for cooperative research using remote sensing. Visit our website: <http://www.augie.edu> or e-mail the Department Chair at e-mail: [diggins@inst.augie.edu](mailto:diggins@inst.augie.edu). Send letter of application, curriculum vitae, graduate transcripts, three letters of reference, and a statement of teaching philosophy to: **Dean of the College, Augustana College, Box 763, Sioux Falls, SD 57197** by November 7, 2001. *Equal Opportunity Employer/Affirmative Action.*

## POSITIONS OPEN

### FACULTY POSITION MOLECULAR IMAGING

Departments of Physiology and Radiology  
Michigan State University

The Departments of Physiology and Radiology invite applications for a full-time, tenure-track appointment at the **ASSISTANT/ASSOCIATE PROFESSOR** level. The successful candidate will be expected to develop an independent research program that exploits physiological or molecular imaging methods. Individuals whose research exploits modern NMR for study of chronic diseases, e.g., detection of brain function, tumors, and metabolic and/or cardiovascular disorders, are encouraged to apply. Candidates must hold a Ph.D., M.D., or equivalent Doctoral degree; have postdoctoral experience; and demonstrate potential for developing a vigorous, externally funded research program and outstanding teaching in the Department's educational program. Interested individuals should provide complete curriculum vitae, a brief statement of research interests, and copies of key publications. Applicants should also request letters of recommendation from three individuals who can evaluate their accomplishments and future potential for research and teaching. Review of applications will begin December 1, 2001, and continue until the position is filled. Applications should be sent to:

**Ronald A. Meyer, Ph.D.**  
Chairperson, Molecular Imaging  
Search Committee  
Department of Physiology  
Michigan State University  
East Lansing, MI 48824-1101  
E-mail: [rmeyer@pilot.msu.edu](mailto:rmeyer@pilot.msu.edu)  
Website: <http://www.psl.msu.edu>

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

### DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY

University of California Santa Barbara

The Department announces the availability of three tenure-track faculty positions in biochemistry and biophysics for appointment July 1, 2002. One appointment will be tenured and two appointments will be at the **ASSISTANT PROFESSOR** level. Candidates with an outstanding record of teaching and research in any related subdiscipline are encouraged to apply. Potential areas of research include but are not restricted to (1) macromolecular structure and dynamics including X-ray crystallography and NMR; (2) structure-function analysis applied to cellular processes, biochemical thermodynamics, and catalysis; and (3) biomaterials applications. Send curriculum vitae, up to five selected reprints, brief research plan, and three letters of recommendation to: **Chair of Biochemistry Search Committee, Department of Chemistry and Biochemistry, University of California, Santa Barbara, CA 93106-9510**. Positions are open until filled; however, applications completed by November 1, 2001, will be given preference. *UCSB is an Equal Opportunity/Affirmative Action Employer.*

**ASSISTANT PROFESSOR**, bioinformatics/computational biology (F-26). Tenure-track position beginning September 2002. Ph.D. required. Postdoctoral experience preferred. Teach courses in bioinformatics, molecular biology, graduate courses, and/or general biology. Candidate expected to develop competitive research program, seek external funding, and participate in the development of a new undergraduate program in bioinformatics. Applicants should submit curriculum vitae, summary of research interests, statement of philosophy of teaching, and the names of three references to: **Dr. Bonnie Lustigman**, Chair, Department of Biology and Molecular Biology, Montclair State University, Upper Montclair, NJ 07043. Position subject to available funding. Screening begins immediately and continues until position is filled. *Montclair State University is an Equal Opportunity/Affirmative Action Employer.*

### Wetlands Ecologist

The Romberg Tiburon Center for Environmental Studies, a field campus of San Francisco State University (SFSU) located on San Francisco Bay, and the Department of Biology at SFSU seek candidates for a tenure-track Assistant Professorship in Wetlands Ecology.

We seek an individual who can complement the research and teaching interests of the Center's and Department's rapidly expanding staff (<http://rtc.sfsu.edu>; <http://www.sfsu.edu/~biology>). The position is broadly defined at both organismal (plants, invertebrates, vertebrates) and organizational (individual, population, community) levels. Interactions with conservation and restoration ecology programs are strongly encouraged, as are research interests in San Francisco Bay. S.F. Bay contains the state's largest concentration of wetlands, and the State of California has mandated the conservation and restoration of many wetland habitats. Ph.D. required; postdoctoral experience preferred. Applicants must have an ability to maintain externally funded research that will involve students working toward masters degrees.

SFSU, a member of the California State University system, serves a diverse student body of 27,000 undergraduate and graduate students. The mission of the University is to promote scholarship, freedom, human diversity, excellence in instruction, and intellectual accomplishment. SFSU faculty are expected to be effective teachers and demonstrate professional achievement and growth through continued research, publications, and/or creative activities.

Send curriculum vitae, a statement of teaching and research interests, selected reprints, and have three letters of reference sent to: **Chair, Wetlands Ecologist Search Committee, Romberg Tiburon Center, 3152 Paradise Drive, Tiburon, CA, 94920.** Applications will be reviewed beginning November 15, 2001.

*San Francisco State University is an Equal Opportunity/  
Affirmative Action Employer.*



UNIVERSITY OF  
OXFORD

### Professorship of Nanomaterials

The electors intend to proceed to an election to the Professorship of Nanomaterials with effect from as early a date as may be arranged.

This new chair (made available by the appointment of Professor Brian Cantor, formerly head of the Department of Materials, as head of the new Mathematical and Physical Sciences Division from October 2000) is intended to bring new activity to Oxford and fill gaps in expertise to lead an expansion of the department's activities into the exciting new field, with an emphasis on bio-nanomaterials, and contribute to the department's teaching and administration as appropriate. The appointment will enable the University to capitalise on developments that have taken place in recent months in related areas of the University. An interdisciplinary research centre in Bio-Nanomaterials is in the process of being set up; a new chair in Chemical Biology is being filled; and there is much progress towards setting up new research institutes at the Begbroke Business and Science Park.

A non-stipendiary fellowship at St Anne's College is attached to the professorship.

**Applications (ten copies, or one only from overseas candidates), naming three persons who have agreed to act as referees on this occasion (with postal and e-mail addresses and telephone/fax numbers), should be received not later than 15th October 2001 by the Registrar, University Offices, Wellington Square, Oxford OX1 2JD, from whom further particulars may be obtained. Further particulars may also be accessed on the Web (URL: <http://www.admin.ox.ac.uk/fp/>).**

*The University is an Equal Opportunities Employer.*

### NIGMS

**National Institute of General Medical Sciences  
National Institutes of Health  
Bethesda Maryland**

### DIRECTOR, CENTER FOR BIOINFORMATICS AND COMPUTATIONAL BIOLOGY

**The Challenge:** As biomedical research enters the post-genomic era, the challenge will be to integrate the vast amount of scientific data that has been accumulated in order to understand basic biological processes. The ability to meet this challenge will be critically dependent on advances in bioinformatics and computational biology. To this end, NIGMS has formed a Center which will be responsible for stimulating and funding research in areas of importance for NIGMS. The Center also has the responsibility for managing the Biomedical Information Science and Technology Initiative Consortium (BISTIC), (<http://grants.nih.gov/grants/bistic/bistic.cfm>). This position is for the Director of that Center.

**The Requirements:** You must have a doctorate or equivalent degree in a field relevant to the position. The ideal candidate will have an established research program in either bioinformatics or computational biology (or a closely related area). In addition, you should possess recognized management and leadership abilities. The position will be filled under Title 42, offering a competitive salary commensurate with qualifications and experience. A recruitment or relocation bonus may be available. An intramural research program is possible, subject to negotiation.

For further information, contact the Chairman of the search committee:

**James Cassatt, Ph.D.**  
(301) 451-6446  
[cassattj@nigms.nih.gov](mailto:cassattj@nigms.nih.gov)

To apply, send a curriculum vitae, which includes a list of publications, a statement expressing your vision for research in bioinformatics and computational biology related to the mission of NIGMS (see especially <http://www.nigms.nih.gov/news/reports/planning.html#vision>), and two letters of recommendation to:

**Lynn Pupkar**  
**NIGMS Personnel Office**  
**45 Center Drive - MSC 6200**  
**Bethesda, MD 20892-6200**  
(301) 594-2749; fax (301) 480-0850  
by e-mail: [NIGMSAPPS@NIGMS.NIH.GOV](mailto:NIGMSAPPS@NIGMS.NIH.GOV)  
TDD (301) 402-6327

Closing date: November 20, 2001 – All applications must be postmarked by the closing date.

*NIH is an equal opportunity employer*

## POSITIONS OPEN

The Department of Animal Sciences will fill two tenure-track positions to begin January 2002 or later, both at the **ASSISTANT OR ASSOCIATE SCIENTIST/PROFESSOR** level. Positions will include competitive salaries, excellent laboratory facilities, access to state-of-the-art equipment, and working with world-class Scientists. We are looking for highly qualified colleagues to complement and build on current strengths in the study of nutrition, genetics, muscle biology, immunology, reproduction, and gene regulation (see [website: http://www.ansci.wsu.edu](http://www.ansci.wsu.edu)). The Department offers undergraduate/graduate degrees in animal sciences. Successful candidates will be expected to develop and maintain a vigorous research program supported by extramural funding, train graduate students, and participate in graduate/undergraduate teaching. Candidates must have a Ph.D. (postdoctoral training desired), the ability to communicate effectively orally and in writing, and a record indicating outstanding abilities and potential in research and teaching. Reproductive genomics position: Candidates should have expertise in the area of reproduction and utilize genomics and/or bioinformatics to solve fundamental problems in animal sciences. Animal genomics position: Candidates should have expertise in any one of the areas of nutrition, genetics, meats, immunology, or reproduction that utilizes genomics and/or bioinformatics while working on fundamental problems of animal sciences. Screening begins November 1, 2001, and continues until the positions are filled. Send letters of application; curriculum vitae; a statement of current and long-term research interests; and arrange for three letters of reference addressing research potential, teaching, and communication skills to be sent to: **Dr. Jerry J. Reeves, Search Committee Chair, Department of Animal Sciences, Washington State University, Pullman, WA 99164-6353. Telephone: 509-335-8339; FAX: 509-335-1082; e-mail: jjreeves@wsu.edu. Search Numbers 2990 and 2991.**

*Equal Employment Opportunity/Affirmative Action/Americans With Disabilities Act.*

## LONGWOOD COLLEGE

**ASSISTANT PROFESSOR** of molecular biology: tenure-track Assistant Professor in genetics to begin August 2002. Ph.D. and evidence of teaching/scholarly activity required as well as a commitment to undergraduate teaching. Duties include teaching general biology; genetics; and a rotating schedule of molecular genetics, cell biology, or biochemistry. Student advising and committee involvement included.

Further information available at [website: http://www.lwc.edu](http://www.lwc.edu). Applicants should submit a letter of application, curriculum vitae, statement of teaching philosophy and research goals, transcripts, and the names of three references to: **Human Resources, Attention: Molecular Biology Search Committee Chair, Longwood College, 201 High Street, Farmville, VA 23909.** Review of applications will begin immediately and will continue until the position is filled.

*Longwood College is an Affirmative Action/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.*

## PROFESSOR BIOLOGY

Soka University of America seeks applicants for a **FULL-TIME FACULTY POSITION** in biology. Applicants from all ranks and all branches of biology will be considered with a preference for experience in marine biology. SUA is a small, select liberal arts college with an emphasis on outstanding teaching and a commitment to professional advancement including research and scholarship. Please see [website: http://www.soka.edu](http://www.soka.edu) for further information on SUA. Applications should include curriculum vitae and statements of teaching philosophy and research interests and be sent to: **Biology Search, Dr. Alfred Balitzer, Dean of the Faculty, Soka University, 1 University Drive, Aliso Viejo, CA 92656.**

## POSITIONS OPEN

### THE STATE UNIVERSITY OF NEW JERSEY RUTGERS

#### MAMMALIAN CELL BIOLOGIST

The Department of Cell Biology and Neuroscience at Rutgers University, New Brunswick, New Jersey, a member of the prestigious Association of American Universities, invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. We are seeking individuals with a Ph.D. and an outstanding record of research productivity in mammalian cell biology. Exceptional candidates in all fields of mammalian cell biology including regulation of mammalian gene expression, macromolecular transport, cell signaling, or cell differentiation are strongly encouraged to apply.

Excellent facilities and competitive start-up funds are available. The successful candidate will be expected to develop a vigorous, externally funded research program and contribute to graduate and undergraduate education. Applicants should send curriculum vitae, a two-page statement of research plans, and the names and addresses of three references to: **Search Committee, Department of Cell Biology and Neuroscience, Rutgers University, Nelson Biological Laboratories, 604 Allison Road, Piscataway, NJ 08854-8082.** For more information, see our [website: http://lifesci.rutgers.edu/~cbn/](http://lifesci.rutgers.edu/~cbn/). Position will be open until filled but applications postmarked before November 15, 2001, will be considered first. *Rutgers University is an Equal Opportunity/Affirmative Action Employer.*

#### TENURE-TRACK FACULTY POSITION Biological Sciences

The Division of Cell Biology and Biophysics, School of Biological Sciences, University of Missouri-Kansas City, invites applications for a full-time, tenure-track faculty position at the **ASSISTANT PROFESSOR** level. Preference will be given to individuals working in an area of molecular cell or developmental biology. The successful candidate will be required to establish a strong research program compatible with the School's focus on molecular recognition (including disciplines of molecular genetics and structural biology). We seek an outstanding scholar with significant accomplishments in research, teaching experience in an English-language institution, and exemplary communication and supervisory skills. State-of-the-art core facilities are available and competitive salary, start-up funds, and laboratory space will be provided. Review of applications will begin immediately and continue until the position is filled. Applications including curriculum vitae, reprints of publications, one-to-two-page summaries of present and future research plans, and three letters of recommendation solicited by the applicant should be forwarded to: **CBB Search Committee, Division of Cell Biology and Biophysics, BSB 403, University of Missouri-Kansas City, 5100 Rockhill Road, Kansas City, MO 64110-2499.** *Equal Opportunity/Affirmative Action Employer.*

Northwest university seeks **SENIOR RESEARCH ASSISTANT**. Duties: signal transduction studies on T cell after recombinant T cell receptor ligands (RTLs) treatment, identification and characterization of specific gene expression regulated by RTLs treatment, site-directed mutagenesis on RTLs, and expression RTLs in bacteria and purification. Requirements: M.S. in molecular pharmacology or molecular biology plus one year of experience as Senior Research Assistant. The one year of experience must include protein phosphorylation and G protein signaling, differential display reverse transcriptase polymerase chain reaction (DDRT-PCR), and site-directed mutagenesis. Forty hours per week. Must have legal authority to permanently work in United States. Résumé and/or cover letter must reflect each requirement or it will be rejected. \$32,000. Mail résumé to: **Oregon Employment Department, Attention: Job Order Number 5552371, 875 Union Street, N.E., Room 201, Salem, OR 97311.**

## POSITIONS OPEN

### JUNIOR AND ESTABLISHED INVESTIGATOR FACULTY POSITIONS IN GENETICS Dartmouth Medical School

Dartmouth Medical School has launched a major initiative in genetics that includes continued major growth in the Department of Genetics. We seek outstanding individuals who will bring or establish vigorous and innovative research programs where genetic approaches play a major role and who will contribute their energy to a first-rate environment for research and teaching. Particular interests in this search include:

Mammalian genetics (mouse or human): individuals pursuing fundamental questions in mammalian genetics that will embrace but extend beyond the era of genomics.

Bioinformatics: computation-based approaches to uncover underlying principles in biological systems.

Behavioral genetics: Scientists using genetic tools to identify and analyze genes governing behavior.

Applicants should submit curriculum vitae, a description of research accomplishments and future objectives, and arrange to have three letters of reference sent directly to the Search Committee. Please send all materials to:

**Search Committees, Department of Genetics  
7400S Remsen, Dartmouth Medical School  
Hanover, NH 03755-3837 U.S.A.**

*Dartmouth College is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and members of minority groups.*

The Department of Psychology at the University of Maryland, College Park, has a tenure-track position at the **ASSISTANT PROFESSOR** level for a Neurobiologist who uses an animal system (preferably invertebrate) to study learning, neural plasticity, or adaptive changes in the nervous system that occur during development. Research strategies using molecular and genetic techniques are welcome as long as the research remains strongly linked to behavioral effects. The successful candidate will have a strong history of research productivity and will be expected to build a robust and active scientific program that attracts external support. Teaching responsibilities will include graduate and undergraduate courses in areas such as behavioral neuroscience, neuroethology, and neuropharmacology. For more information, visit [website: http://www.bsos.umd.edu/cebh/INSjob.html](http://www.bsos.umd.edu/cebh/INSjob.html). Applicants should send curriculum vitae, a statement of research interests, and arrange for three letters of recommendation to be sent to: **Dr. Robert Dooling, Chair, Integrative Neuroscience Search Committee, Department of Psychology, University of Maryland, College Park, MD 20742-4411.** For best consideration, materials should be received by 1 November 2001. *The University of Maryland actively subscribes to both a policy of Affirmative Action and Equal Educational Employment Opportunities.*

### MOLECULAR/CELLULAR NEUROSCIENCE BIOLOGY DEPARTMENT Williams College

Tenure-track position at the rank of **ASSISTANT PROFESSOR** beginning July 1, 2002, with teaching responsibilities in the areas of molecular and cellular biology and neuroscience. Normally, faculty members teach one course and two laboratories or the equivalent each semester. A research program that attracts extramural funding and involves undergraduates is expected. Ph.D., postdoctoral experience, and a strong research record are required. Please send curriculum vitae; one-page statements of teaching and research interests; and three letters of recommendation by November 15, 2001, 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.*





# HOWARD HUGHES MEDICAL INSTITUTE

The Howard Hughes Medical Institute

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

HHMI regularly has positions open for research and administrative personnel.

Laboratory Positions:

- Postdoctoral Fellowships
- Research Specialists/Technicians
- Research Secretaries

Administrative Positions:

- Managers
- Administrative Assistants
- Purchasing Coordinators
- Receiving Clerks

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



## Assistant Professor Plant Biologist

The Department of Biology, University of Minnesota Duluth seeks applications for a tenure-track, nine-month Assistant Professor position in plant biology that begins 1 September 2002. Expectations of the successful candidate include teaching plant diversity, advanced specialty course, and team-teaching introductory biology; research in modern plant biology, particularly evolution, population biology, or systematics; student advising; and service. There are significant opportunities for local research collaboration ([www.d.umn.edu/biology](http://www.d.umn.edu/biology)), and extensive and diverse public lands and waters nearby. Essential qualifications are: a Ph.D. in a biological science and evidence of potential for achievement in teaching and research in modern plant biology - including excellent oral and written communication skills and senior authorship of at least one peer-reviewed publication.

Send letter of application, curriculum vitae, statements of teaching and research experience/interests/philosophy, reprints of up to three of your most significant publications, transcripts (may be unofficial) or list of relevant coursework; and have at least three letters of recommendation sent to: **Dr. David Schimpf, Search Committee Chair, Department of Biology, University of Minnesota, Duluth, MN 55812.** Review of completed applications will begin on November 12, 2001 and will continue until the position is filled.

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

## THREE TENURE-TRACK POSITIONS Biological Sciences (2) and Bioengineering (1)

An ongoing institutional initiative in Bioscience and Biotechnology will add as many as twelve faculty spanning Biological Sciences, Bioengineering, and related fields over the next 3-5 years. As part of this undertaking, applications are invited for three tenure-track faculty positions beginning in fall 2002. Two of the appointments will be in the Department of Biological Sciences, while the third is planned as a joint appointment between Biological Sciences and the Department of Chemical Engineering to support a new interdisciplinary program in Bioengineering. Successful candidates at the assistant professor level will have strong records of scholarly productivity, the potential or demonstrated ability to generate extramural funding, and a commitment to instructional excellence at the undergraduate and graduate levels. Candidates for the rank of associate professor, where appointment with tenure is possible, should have an exceptional record of both independent and collaborative scholarly productivity, including significant external support for their research.

### Department of Biological Sciences

**Molecular Neurobiology, Assistant Professor.** Individuals studying fundamental questions in molecular, cellular, and/or developmental biology of the nervous system are encouraged to apply to Prof. V. Ware ([vcw0@lehigh.edu](mailto:vcw0@lehigh.edu)), Chair, Molecular Neurobiology Search Committee.

**Signal Transduction, Assistant Professor.** Area of specialization is open. Potential fields of interest include growth modulation, apoptosis, development, nutrition, or neurotransmission. Applications should be sent to Prof. L. Cassimins ([lc07@lehigh.edu](mailto:lc07@lehigh.edu)), Chair, Signal Transduction Search Committee.

### Bioengineering

**Molecular Modeling, Assistant or Associate Professor.** Candidates with expertise that complements research in biopharmaceuticals are encouraged. Possible fields of interest include protein structure prediction, rational drug design, metabolic engineering, molecular dynamics, computational biology, and bioinformatics. Applications should be directed to Prof. M. Chaudhury ([mkc4@lehigh.edu](mailto:mkc4@lehigh.edu)), Chair, Molecular Modeling Search Committee.

Additional hires in the Bioscience and Biotechnology Initiative are planned in molecular and cellular bioscience, integrative biology and neuroscience, bioengineering, bioinformatics, and biomaterials. Individuals hired as part of this effort are expected to demonstrate a commitment to interdisciplinary research and educational programs (for more information, see our Web site [www.lehigh.edu/~inbios/position.html](http://www.lehigh.edu/~inbios/position.html)). General inquiries can be directed to Prof. N. G. Simon ([ngs0@lehigh.edu](mailto:ngs0@lehigh.edu)), Coordinator. The initiative is designed to complement anticipated major investments in information technology, materials science, and the environment.

Send curriculum vitae, representative publications, a description of research and teaching interests, and four letters of reference to the appropriate search committee chair electronically or to **Lehigh University, Department of Biological Sciences, 111 Research Drive, Bethlehem, PA 18015.** Deadline for submission is December 1, 2001.

Lehigh University is an AA/EO employer and is committed to recruiting and retaining women and minorities.

**LEHIGH**  
University



## POSITIONS OPEN

### ASSISTANT PROFESSOR POSITION IN MICROBIOLOGY Central Michigan University

The Department of Biology invites applications from broadly trained individuals for an Assistant Professor tenure-track position in microbiology beginning August 2002 or earlier. Candidates are expected to have a Ph.D. in the biological sciences; excellent verbal and written communication skills; and demonstrate a strong commitment to and potential for teaching, research, and external funding. Postdoctoral experience is preferred. Teaching responsibilities include microbiology, instruction in the individual's area(s) of expertise at the undergraduate and M.S. levels, and ability to contribute to the Department's introductory program. Background in environmental microbiology preferred. Submit a letter of application, curriculum vitae, copies of all transcripts, statement of teaching philosophy and statement of proposed research plans, and three letters of recommendation to: **Microbiology Search Committee, Department of Biology, Central Michigan University, Mt. Pleasant, MI 48859**. Review of applications will begin November 1, 2001, and continue until position is filled. Departmental information is available at [website: http://www.cst.cmich.edu/units/bio](http://www.cst.cmich.edu/units/bio). Serving more than 27,000 students, Central Michigan University is an innovative, Doctoral/research-intensive institution recognized for strong undergraduate education and a range of focused graduate programs and research. CMU, an Affirmative Action/Equal Opportunity Institution, is strongly and actively committed to increasing diversity within its community. (See [website: http://www.cmich.edu/aaco/](http://www.cmich.edu/aaco/).)

### ASSISTANT/ASSOCIATE PROFESSORSHIPS

#### Cell Injury, Death, and Regeneration Medical University of South Carolina

Applications are invited for three tenure-track faculty positions in cell injury, death, and regeneration. The Department of Pharmaceutical Sciences is under new leadership and is undergoing dramatic growth with the addition of seven faculty members over the next several years and the formation of a Center for Cell Injury, Death, and Regeneration. Applicants should have a Ph.D., postdoctoral experience, and extramural funding if applying for an Associate Professorship. The successful applicants are expected to develop an independent, extramurally funded research program and participate in graduate and professional teaching and Center activities. Excellent opportunities exist for collaborations across the campus and in the Hollings Cancer Center, Neuroscience Institute, and Gaze Cardiac Research Institute. We offer excellent salaries and benefits, start-up packages, and renovated laboratory space. Applications will be reviewed beginning November 15, 2001, and will continue until the positions are filled. Applicants should submit curriculum vitae, statement of research interests, and contact information for four references to: **Ms. Sandy Spence, Department of Pharmaceutical Sciences, Medical University of South Carolina, 280 Calhoun Street, P.O.B. 250140, Charleston, SC 29425**. Telephone: 843-792-3117; e-mail: [spencesj@musc.edu](mailto:spencesj@musc.edu). Medical University of South Carolina is an Equal Opportunity Employer.

**PSYCHOBIOLOGIST.** The Psychology Department, University of Nebraska Omaha, invites applications for a tenure-track **ASSISTANT PROFESSOR**. Research area in behavior, sensory processes, or learning with molecular or physiological approaches preferred, although candidates in all areas encouraged to apply. Teaching and research training expected in B.A./B.S., M.A., and Ph.D. programs. Screening will begin on 1 November 2001 and will remain open after this date. Send cover letter, curriculum vitae, research and teaching philosophy, and three reference letters to: **Dr. Kenneth Deffenbacher, Psychology Department, University of Nebraska Omaha, Omaha, NE 68182**. UN Omaha is an Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### ASSISTANT PROFESSOR MOLECULAR GENETICS University of Minnesota School of Medicine Duluth

Position description: The University of Minnesota School of Medicine Duluth is seeking applications from outstanding individuals to fill a Molecular Geneticist position at the Assistant Professorship level. The position is a regular, 12-month, tenure track position to begin in the spring or summer of 2002. The successful candidate will be expected to (1) develop a productive, externally funded research program in molecular genetics; (2) contribute effectively to medical education in the area of genetics; (3) participate in graduate student training; and (4) participate in regular school service responsibilities. Competitive salary and start-up funds are available.

Qualifications: Candidates must have a Ph.D. (or M.D. with equivalent training) and postdoctoral experience with a demonstrated record of research publication.

Date applications evaluated: beginning November 15, 2001, and continuing until the position is filled. Application: Interested individuals should submit a letter of application, curriculum vitae, a succinct statement of proposed research directions, and have three letters of recommendation sent under separate cover to:

**Faculty Search Committee  
c/o Ms. Lori Isaacson  
University of Minnesota School of  
Medicine Duluth  
1035 University Drive 113SMed  
Duluth, MN 55812-3031**

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

### TENURE-TRACK POSITION RESEARCH VETERINARY PATHOLOGIST

The Department of Biomedical Sciences in the College of Veterinary Medicine at Cornell University invites applications for a tenure-track Veterinary Pathologist position at the level of **ASSISTANT or ASSOCIATE PROFESSOR**. The successful candidate will be expected to develop an extramurally funded biomedical research program, contribute to departmental initiatives in murine pathology, and participate in the diagnostic pathology service. A D.V.M. or equivalent degree and Board certification or eligibility in anatomic pathology is required. Postgraduate training and/or experience in the generation or characterization of genetically modified mice for scientific research is desirable.

Applicants should send a letter of interest, curriculum vitae, and the names of three references to: **Dr. Brian Summers, c/o Ms. Amy Pellegrino, Department of Biomedical Sciences, College of Veterinary Medicine, Cornell University, Ithaca, NY 14853-6401**. E-mail: [ap14@cornell.edu](mailto:ap14@cornell.edu). The screening of candidates will begin immediately and continue until a suitable candidate is identified. Rank and salary will be commensurate with the successful candidate's academic credentials and experience. Cornell University is an Affirmative Action/Equal Opportunity Employer.

### ASSISTANT/ASSOCIATE PROFESSOR

One long-term-track faculty position. Begin August 2002. Ph.D. required in biochemistry; teaching experience in biochemistry/physiology. Expected to teach graduate students with an opportunity for undergraduate teaching. Experience in small college preferred. Liberal arts environment. Responsibilities include academic advising, committee work; expected to engage in biomedical research with undergraduates and to publish. Strong record of teaching excellence and scholarship desirable. Letter stating interests; complete résumé; transcripts; and names of three references to: **Sr. John Karen Frei, O.P., Ph.D., Dean, School of Natural and Health Sciences, Barry University, 11300 N.E. Second Avenue, Miami Shores, FL 33161-6695** by November 15, 2001.

## POSITIONS OPEN

### MOLECULAR BIOLOGIST/ IMMUNOLOGIST

The School of Medicine at the University of Alabama at Birmingham is seeking a new faculty member at the **ASSISTANT PROFESSOR** level on the tenure track to develop a program in malaria. The position requires a Doctoral degree in molecular biology, immunology, molecular genetics, medicine, or a related discipline and at least two years of experience in that field. The emphasis will be on an independent, laboratory-based Investigator who is motivated to build a malaria program dovetailing with existing strengths at UAB. In addition to the requisite technical expertise, an important qualification will be a commitment to institutionwide collaborative investigation.

Applications will be accepted until the position is filled. Interested candidates should submit curriculum vitae, the names of three references, and a one-to-two-paragraph statement of research interests by October 31, 2001:

**Cornelis J. M. Beckers, Ph.D.  
Chair, Search Committee  
Division of Geographic Medicine  
University of Alabama at Birmingham  
(BBRB 206)  
845 19th Street South  
Birmingham, AL 35294-2170**

*UAB is an Equal Employment Opportunity Employer.*

### ASSISTANT PROFESSOR INFECTIOUS DISEASES Washington University School of Medicine

The Division of Infectious Diseases in the Department of Medicine at Washington University School of Medicine solicits applications for tenure-track appointments at the rank of Assistant Professor. We are seeking interactive individuals who will be able to establish a vigorous and outstanding independent basic research program. Our program has a strong emphasis on microbial pathogenesis in prokaryotic, viral, and eukaryotic systems. Recruited faculty will be located contiguous to the Department of Molecular Microbiology and the Division of Pediatric Infectious Diseases; there is tremendous potential for collaborative interactions. Preference will be given to academic physicians who are Board-eligible/Board-certified in infectious diseases. Very attractive start-up packages and protected time arrangements will be offered. Applicants should send detailed curriculum vitae, a few selected reprints, a brief description of current and planned research interests, and arrange to have three letters of reference sent to: **Daniel E. Goldberg, M.D., Ph.D., Codirector, Division of Infectious Diseases, Attention Faculty Search Committee, Washington University School of Medicine, Campus Box 8230, 660 South Euclid Avenue, St. Louis, Mo 63110**. Washington University Medical School is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.

### ASSISTANT PROFESSOR OF PHYSIOLOGY Wheaton College

Wheaton College seeks candidates for a full-time, tenure-track position in physiology at the Assistant Professor level beginning August 2002. The candidates are expected to teach in a strong physiology program and teach occasionally in the general biology curriculum. Options to teach zoology at the College field station exist; research agenda and experience are expected. Preference will be given to candidates with postdoctoral experience. Inquiries and résumés should be sent to: **Dr. Roger Kennett, Chair, Department of Biology, Wheaton College, Wheaton, IL 60187**. Telephone: 630-752-5317; e-mail: [roger.h.kennett@wheaton.edu](mailto:roger.h.kennett@wheaton.edu). Review of applications will begin November 15, 2001.

*Wheaton College, an evangelical Christian liberal arts college whose faculty and staff affirm a Statement of Faith and adhere to lifestyle expectations, complies with federal and state guidelines for nondiscrimination in employment. Women and minority candidates are encouraged to apply.*

**The University of Toronto at Mississauga, Department of Psychology**, invites applications for three tenure-track positions (Cognitive Psychology, Hearing and Speech, and Animal Behavioural Neuroscience) at the level of Assistant or Associate Professor, effective July 1, 2002. Applicants for these positions should have a strong record of research achievement and will be expected to maintain an active, externally funded program of research and to contribute to the education and training of undergraduate and graduate students. Salary will be commensurate with qualifications and experience.

**Cognitive Psychology.** We are looking for a person with research interests in language, language development, and communication. The successful applicant will be part of the Human Communication Research Group at the University of Toronto at Mississauga, an interdisciplinary group whose research focus is on human communication throughout the lifespan. In 2003, this research group will be moving to a new facility, containing eight sound-proof chambers and state-of-the-art signal-processing and behavioural recording equipment that will permit researchers to study any aspect of human communication. This facility is part of a new program in Communication, Culture, and Information Technology (CCIT), jointly sponsored by UTM and Sheridan College.

**Hearing and Speech.** Because of the primacy of spoken language in human communication, we are looking for a person with a strong background in the hearing sciences whose research interests are in hearing and speech. The successful applicant will be a member of the Human Communication Research Group and will be expected to teach courses on hearing, hearing disorders, and speech in the new undergraduate CCIT program.

**Animal Behavioural Neuroscience.** The successful applicant will have a strong research program in animal behavioural neuroscience and an interest in both undergraduate and graduate teaching. The position is in the Psychology Department with the opportunity for cross-appointment to Biology and to the Neuroscience Program. Facilities include a large, small-mammal vivarium, behavioural testing rooms, surgical, histological, and microscopy labs, excellent outdoor "fields," and access to confocal and biotechnology facilities.

The University of Toronto at Mississauga, one of three campuses of the University of Toronto, is located in the City of Mississauga, on the western border of Toronto, approximately 20 km from Toronto's Civic Centre. In light of the extensive expansion (50% growth) that will occur at UTM over the next 10 years, we anticipate the addition of many new positions in Psychology and in the Life Sciences. New buildings are being constructed, and existing laboratory facilities are being renovated to support expansion in three areas: Communication Culture, and Information Technology, Bio-technology, and Behavioural Genetics and Developmental Neurobiology. Please see our website for further details (<http://www.erin.utoronto.ca/~w3psy/>).

Interested applicants should submit a curriculum vitae, statement of research and teaching interests, and copies of representative publications to **Dr. Bruce A. Schneider, Department of Psychology, University of Toronto at Mississauga, Mississauga, Ontario, Canada L5L 1C6**. Three letters of recommendation should also be sent to Dr. Schneider. Deadline for applications and reference letters is November 30, 2001. *The University of Toronto is strongly committed to diversity within its community. The University especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, and others who may contribute to further diversification of ideas.*

## Biotech Research Scientists

We have openings for motivated Research Scientists to join our Preclinical Development and Biological Teams.

**PhD Scientist – Cancer biology, Signal Transduction and Cell Cycle Regulation.** You will focus on regulation of signal transduction pathways controlled by the HSP90 family of molecular chaperones using novel small molecules. Conforma's drugs profoundly affect multiple signal transduction pathways involved in cell cycle regulation and apoptosis. Understanding these processes will enable optimal use of our lead compounds and drive the design of novel second generation drugs. The position requires a Ph.D. in tumor cell biology or a closely related field. Postdoctoral and industry experience is desirable. You should have a good working understanding of signal transduction theory and methodology and have excellent problem-solving and interpersonal skills. Ref # CTC-0901-031.

**Associate, Preclinical Pharmacokinetics.** You will plan and implement experiments to determine the ADME properties of drug candidates. Experience in the conduct of *in-vivo* ADME evaluations and in the use of *in-vitro* systems to evaluate drug metabolism and absorption is mandatory. The position requires a BS/MS in a biological science. Ref # CTC-0901-032.

**Bio-Analytical Scientist, Preclinical.** You will design, validate and implement HPLC and LC/MS assays amenable to the measurement of parent drug and metabolite concentrations in biological matrices. Experience in metabolite identification using LC/MS is essential. The position requires a BS/MS in chemistry or a biological science. Ref # CTC-0901-033.

Conforma Therapeutics Corporation is an exciting early stage biopharmaceutical company pioneering a novel approach to the design and development of small molecule drugs for the treatment of cancer. The Company is located in a state-of-the-art facility and is privately held. To learn more, please visit our web site at [www.conformacorp.com](http://www.conformacorp.com)

We offer competitive compensation, attractive benefits and a generous equity position. This is an exciting opportunity for enthusiastic, creative individuals who are interested in making a significant scientific impact in a cutting edge startup company. You are invited to forward your resume to:

 conforma  
therapeutics

9393 Towne Centre Drive  
Suite 240  
San Diego, CA 92121  
[hrrscience@conformacorp.com](mailto:hrrscience@conformacorp.com)

## DIRECTOR OF THE BIOTECH CENTER RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY, & NEW JERSEY AGRICULTURAL EXPERIMENT STATION

Rutgers, The State University of New Jersey, and the New Jersey Agricultural Experiment Station (NJAES) are seeking an outstanding scientist for the position of Director of the Biotechnology Center for Agriculture and the Environment (Biotech Center).

The Biotech Center, founded in 1987 at Cook College, is internationally recognized for research and training in biotechnology and the application of biotechnology to problems in agriculture and the environment. The Center has well-funded research programs in plant biology, animal science, microbiology, and environmental science (see <http://aesop.rutgers.edu/~biotech/>). The Director will be responsible for ensuring the continued success of these programs and for developing major new initiatives in biotechnology and genomics that serve the needs of Cook College, Rutgers, NJAES, and the state of New Jersey. The Director reports directly to the University Vice President for Academic Affairs.

The successful candidate will be familiar with recent developments in biotechnology and its applications, have a record of initiating and administering successful research programs, and have a vision for the future of the Center. As the chief administrator of the Center, the Director will work with the faculty and staff to further expand the research, teaching, and outreach of the Center. The Director serves as the primary contact with the University administration, government, industry, and the public and will work to secure funding for Center programs, develop public policy, and assist in transferring technology to industry. The Director is expected to initiate and implement multi-disciplinary programs involving Center faculty and other researchers. The Director is responsible for liaison with other Centers and academic departments at Cook College and Rutgers University.

Applicants should send a curriculum vitae, a summary of research accomplishments and administrative experience, and names and contact information for at least three references to **Gerben J. Zylstra, Rutgers University, Biotech Center, Foran Hall, 59 Dudley Road, New Brunswick, NJ 08901-8520**. Electronic applications in Word or WordPerfect format are welcome and can be e-mailed to [zylstra@aesop.rutgers.edu](mailto:zylstra@aesop.rutgers.edu). Review of applications will begin December 1, 2001, and continue until the position is filled. *Rutgers University is an affirmative action/equal opportunity employer.*

THE STATE UNIVERSITY OF NEW JERSEY  
**RUTGERS**

## POSITIONS OPEN

### THE UNIVERSITY OF TEXAS AT ARLINGTON

The Department of Biology invites applications for three tenure-track positions (rank open) available September 2002. Candidates applying for **ASSISTANT PROFESSOR** rank will be expected to establish vigorous, externally funded research programs. Postdoctoral experience is preferred. Candidates applying at advanced rank should demonstrate ongoing excellence in research and an established record of extramural funding. Successful candidates will participate in teaching at graduate and undergraduate levels. The Department offers B.S., M.S., and Ph.D. degrees and currently has 977 undergraduate majors and 55 graduate students. Located in the Dallas/Ft. Worth metropolitan area, UTA is a comprehensive university with about 21,000 students.

**Virologist:** Applicants studying molecular aspects of viral replication, gene expression, pathogenesis, or host cell-virus interaction are preferred; however, outstanding candidates in related areas will be considered. Teaching responsibilities will likely include virology and immunology. Contact: **Thomas H. Chrzanowski, Chairman, Virologist Search Committee;** e-mail: [chrz@uta.edu](mailto:chrz@uta.edu).

Two open specialty positions: Applicants whose research complements existing departmental centers of research excellence in the areas of biocomplexity of aquatic systems, biodiversity of amphibians and reptiles, and microbiology will be considered. Contact: **Daniel R. Formanowicz, Jr., Chairman, Biologist Search Committee;** e-mail: [formanowicz@uta.edu](mailto:formanowicz@uta.edu).

Additional information may be found at **website:** <http://www.uta.edu/biology/>. Applicants must submit curriculum vitae, selected reprints, a statement of research goals, teaching philosophy, and the names of three references to the appropriate contact at: **The Department of Biology, Box 19498, The University of Texas at Arlington, Arlington, TX 76019.** Review of applications will begin on 23 November 2001 and continue until the position is filled. Positions are contingent upon budgetary approval. *UTA is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT, ASSOCIATE, OR FULL PROFESSOR POSITIONS Chemical Biology

#### The University of Wisconsin-Madison

The University of Wisconsin-Madison is seeking to fill a faculty position in chemical biology. The chemical biology position is a part of a campuswide initiative to add to the vibrant community combining chemical and biological approaches at UW-Madison. Participating units include the Departments of Biochemistry, Chemistry, Biomolecular Chemistry, Chemical Engineering, Oncology, Human Oncology, Pharmacology, Plant Pathology, the Biotechnology Center, and the School of Pharmacy.

We are seeking one additional faculty member at the Assistant, Associate, or Full Professor level. Applicants seeking to establish innovative research programs that combine chemical and biological approaches to solve important problems are encouraged to apply. Further information about the chemical biology initiative at UW-Madison can be obtained from the **website:** <http://www.biochem.wisc.edu/chembio>.

Review of applications will begin October 15, 2001. Deadline for applications: December 3, 2001. Candidates should send a letter of interest, curriculum vitae, and the names and addresses of three references to:

**Chemical Biology Positions  
c/o Professor Laura Kiessling  
Department of Chemistry  
1101 University Avenue  
Madison, WI 53706-1396**

*The University of Wisconsin-Madison is an Equal Opportunity Employer and women and minorities are especially encouraged to apply. Unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality.*

## POSITIONS OPEN

### ASSISTANT PROFESSOR OF BIOLOGY

The Department of Biology at Grinnell College invites applications for a tenure-track Assistant Professor position beginning in August 2002. We seek candidates whose research program uses eukaryotic organisms to address questions at the molecular, cellular, and/or organismal level. The successful candidate will be expected to teach two courses in our inquiry-based curriculum (Introduction to Biological Inquiry and Molecules, Cells, and Organisms) and an upper-level course in the candidate's area of specialty. In some years, a general education course will substitute for one of these courses. Candidates must have a Ph.D., postdoctoral experience, and plan an active research program involving undergraduates. Start-up funds, excellent equipment, recently renovated facilities, support for student-faculty research, and a biological field station are available. In their letters of application, candidates should address their interest in developing as a teacher and scholar in an undergraduate liberal arts environment that emphasizes close student-faculty interaction and values diversity. Send curriculum vitae, three letters of recommendation, and copies of all transcripts to: **Dr. Charles H. Sullivan, Biology Search Committee, Department of Biology, Grinnell College, Grinnell, IA 50112-1690.** E-mail: [sullivan@grinnell.edu](mailto:sullivan@grinnell.edu); FAX: 641-269-4285. For further information about Grinnell College, please see **website:** <http://www.grinnell.edu>. To be assured of full consideration, complete applications should be received by October 19, 2001. *Grinnell College is an Equal Opportunity/Affirmative Action Employer committed to employing a highly qualified faculty and staff that reflect the diversity of the nation. No applicant shall be discriminated against on the basis of race, national or ethnic origin, age, gender, sexual orientation, marital status, religion, creed, or disability.*

### DIRECTOR

#### USGS Great Lakes Science Center

The U.S. Geological Survey's Great Lakes Science Center in Ann Arbor, Michigan, invites applications for its Center Director. He/she is responsible for managing a broad, multidisciplinary program of biological research, monitoring, and information management on the Great Lakes and for enhancing and supporting natural resource partnerships between the Center and states, tribes, other federal agencies, and private groups. Applicants require extensive professional knowledge of biology and ecology, skill in supervising professional and administrative staff, and ability in managing a federal research facility. *This announcement is open to all qualified U.S. citizens.* Salary: \$90,184 to \$117,239. Closing date: Applications must be submitted (online only) by midnight EST Monday, October 30, 2001. View the full text vacancy announcement or apply for this position at **website:** <http://www.usgs.gov/ohr/oars>. For further information, contact **USGS Eastern Regional Personnel Office; Telephone: 703-648-7470; e-mail: [abradley@usgs.gov](mailto:abradley@usgs.gov).** *The Federal Government is an Equal Opportunity Employer.*

### RESEARCH ASSOCIATE POSITION

A Research Associate position is available in the Center for Bio/Molecular Science and Engineering of the Naval Research Laboratory. Applications are currently sought in the field of bacterial pathogenesis and virulence assessment using microarray technology. These positions require a Ph.D. in a relevant field with less than five years of previous postdoctoral experience. Starting salaries for National Research Council Fellowships are \$52,000 per year and opportunities are excellent for transition to permanent status after a successful tenure. Applicants should send their curriculum vitae and the names of two references by e-mail or regular mail to: **D.A. Stenger, Ph.D., CBMSE, Code 6910, Naval Research Laboratory, Washington, DC 20375.** E-mail: [das@cbmse.nrl.navy.mil](mailto:das@cbmse.nrl.navy.mil).

*The NRL is an Equal Opportunity/Affirmative Action Employer. Only U.S. citizens or permanent residents can be considered for these positions.*

## POSITIONS OPEN

### TWO FACULTY POSITIONS CELL AND DEVELOPMENTAL BIOLOGY Department of Biological Sciences Purdue University

The Department of Biological Sciences at Purdue University invites applications for two new tenure-track faculty positions, most likely at the rank of **ASSISTANT PROFESSOR**. (1) Biophysical/structural cell biology. We seek a Scientist who applies modern imaging methods to study fundamental problems of cell and developmental biology. Researchers directly involved in the development of innovative methods in optical microscopy or their application to living cells are especially encouraged to apply. (2) Developmental biology of sensory systems. We seek a Scientist who applies modern strategies (e.g., genomics, transgenics, advanced imaging) to study fundamental aspects of the developmental neurobiology of sensory systems. We are especially interested in vertebrate experimental systems.

For each position, the successful candidate should have a Ph.D. in an appropriate discipline and significant postdoctoral experience. We seek candidates with a strong promise of successful extramural funding, research productivity, effective teaching, and training of graduate students. Faculty in the Department of Biological Sciences have access to an array of departmental and university facilities that support research. These include facilities for transgenic mice, plant science, mass spectrometry, NMR, electron microscopy, cryoelectron microscopy of protein assemblies, fluorescence microscopy, protein analysis, biophysical measurements of protein interactions, and a genomics center that conducts high-throughput DNA sequencing and microarray analysis. There are departmental and interdepartmental graduate programs and several federally funded training grants. Among the interdisciplinary research and training programs are structural cell biology, neurosciences, biophysics, and cancer. More information about the Department can be found at our **website:** <http://www.bio.purdue.edu>. Applicants should send curriculum vitae, the names and addresses of three references, and a summary of research and teaching interests to: **Dr. Joann Otto, Chair of the Search Committee, Department of Biological Sciences, Purdue University, West Lafayette, IN 47907-1392.** Review of candidates will begin immediately. We anticipate the interviews of finalists will begin in January 2002.

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

### CELL BIOLOGIST

St. John Fisher College in Rochester, New York, invites applications for a tenure-track position of **ASSISTANT PROFESSOR** in the area of cell biology beginning in September 2002.

The successful candidate will be expected to teach courses in cell biology, developmental biology, and a specialty area. The ability to teach a course in electron microscopy (TEM, SEM) will be considered an asset but not required. Applicants should submit curriculum vitae, statement of teaching philosophy, research interests, past teaching experience, and a list of references to: **Dr. Mel Wentland, Biology Department, St. John Fisher College, Rochester, NY 14618.** FAX: 716-385-7311; e-mail: [wentland@sjfc.edu](mailto:wentland@sjfc.edu). Applications must be received by November 16, 2001, at which time the review will begin and continue until the position is filled.

Fisher is an independent college serving over 2,000 students at a suburban campus. The college offers 25 undergraduate and 11 graduate programs in the School of Adult and Graduate Education. Rochester, New York, is noted for its excellent symphony orchestra, arts and science museums, proximity to the Finger Lakes region and the Adirondack Mountains, and high concentration of some of the largest international corporations and best hospitals in the nation.

*St. John Fisher College is an Equal Opportunity/Affirmative Action Institution and is committed to providing Equal Opportunity through its Employment practices. Women and minorities are encouraged to apply.*



## Faculty Position in DNA Repair and Cancer Biology

### University of Kentucky Medical Center

The University of Kentucky College of Medicine invites applications from outstanding candidates for a tenure-track faculty position at the level of Assistant, Associate or Full Professor, to be based in the Markey Cancer Center as an integral part of an expanding initiative in DNA repair and cancer. Expertise is sought particularly in areas which complement current foci in mismatch repair, excision repair, and DNA damage response. Candidates studying DNA repair using advanced biomolecular technologies such as DNA and protein arrays/proteomics, as well as those employing unique animal models and/or molecular epidemiology are encouraged to apply. The successful candidate must have a Ph.D. and/or M.D. degree with productive postdoctoral experience, and will be expected to develop/maintain a vigorous, independent extramurally funded research program, as well as participate actively in graduate teaching programs in the UK Medical Center. Generous start-up funds, competitive salary, and modern laboratory space are available.

Applications, including curriculum vitae, a list of publications, three letters of reference, and a brief summary of accomplishments and future research directions should be sent to: **DNA Repair Search Committee, c/o Ms. Beth Williams, Markey Cancer Center, University of Kentucky College of Medicine, 800 Rose Street, Lexington, KY 40536.** The review of applications begins October 15, 2001 and will continue until the position is filled.

*The University of Kentucky is an Equal Opportunity Employer.*

## Postdoctoral/scientist position Research association/technician

**Postdoctoral/scientist position:** Three positions are available in the newly formed Laboratory at the Diabetes branch of the National Institutes of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institute of Health (NIH), to study pancreatic islet cell development, with an emphasis on islet stem cell biology. Applicants are expected to have a strong background in cellular and development biology. Expertise in biology of pancreas is preferred but not required. The position offers an exceptional opportunity to study pancreatic and non-pancreatic development within the interdisciplinary approach of stem cell biology. Salary is commensurate with experience. Interested applicants should send a curriculum vitae and names of three references to: Ms. Kay Place, NIDDK/NIH, Bldg. 10, Rm. 9N222, 10 Center Dr. Bethesda, MD 20892-1818.

**Research association/technician:** Position is available in the newly formed laboratory at the Diabetes Branch of the National Institutes of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institute of Health (NIH), to study pancreatic islet cell development and applications stem cell technology to treatment of diabetes. Applicant must have BS or MS degree in biochemistry, molecular biology with at least two years of professional experience. Expertise in standard molecular biological, biochemical, and mammalian cell culture techniques is required. Responsibilities include records of experimental procedures and reagents, and conducting laboratory. Interested applicants should send a curriculum vitae to: Ms. Kay Place, NIDDK/NIH, Bldg. 10, Rm. 9N222, 10 Center Dr., Bethesda, MD 20892-1818.



NIH IS AN EQUAL OPPORTUNITY EMPLOYER



## UNIVERSITY OF FLORIDA

### FACULTY POSITION IN BIOLOGICAL NMR

The University of Florida Department of Biochemistry and Molecular Biology, the McKnight Brain Institute (MBI-UF), and the College of Medicine are seeking an outstanding scientist for a tenure-track faculty position at the Assistant or Associate Professor level in the field of biological solution-state NMR. In conjunction with the National High Magnetic Field Laboratory (NHMFL), the MBI-UF has created an Advanced Magnetic Resonance Imaging and Spectroscopy (AMRIS) facility with support staff and facilities, and several state-of-the-art spectroscopy and imaging systems, including a 750 MHz/17.6T/89mm, 600 MHz/14.1T/52mm, 500 MHz/11.7T/52mm, 200 MHz/4.7T/33cm, and a 500 MHz/11.7T/40cm bore spectrometer. All of these systems plus a wealth of other cores, including X-ray crystallography, SGI-supercomputers, optical microscopy, and molecular biology are described at <http://www.ufbi.ufl.edu> and will be available to the successful candidate, who will join an enthusiastic group of faculty with research interests in the structural biology of neuropeptides and proteins, single cell and tissue slice imaging, and spinal cord and brain imaging in animals. The AMRIS facility and associated laboratory and office space are located in the MBI-UF building, and candidates with neuroscience interests are especially encouraged to apply (although all qualified candidates will be considered seriously). The successful candidate will also become a member of the NHMFL and as such gain ready access to additional NMR instrumentation.

Applicants should have a Ph.D. or comparable degree with two years of postdoctoral experience and a significant publication record. The salary range will be negotiable and commensurate with experience. Please send a curriculum vitae, three letters of reference, and a short description of future research plans to:

**Distinguished Professor Ben Dunn  
Chair, NMR Search Committee  
PO Box 100245  
Department of Biochemistry and Molecular Biology  
University of Florida  
Gainesville, FL 32610-0245**

The completed application should be received by December 1, 2001, with an anticipated start date on or after May 1, 2002. *The University of Florida is an EEO/AA Institution.*



### FACULTY POSITIONS

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

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 Cancer Center and the School of Medicine. Faculty appointments will be based in the School of Medicine. Faculty rank will be commensurate with experience and qualifications.

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 Currie Blvd.  
Philadelphia, PA 19104**

THE UNIVERSITY OF PENNSYLVANIA IS AN EQUAL OPPORTUNITY/ AFFIRMATIVE ACTION EMPLOYER. WOMEN AND MINORITY CANDIDATES ARE ENCOURAGED TO APPLY.

## POSITIONS OPEN

Position: **INSTRUCTOR**, physical science. Location: Division of Business and Science. Salary: \$29,350 to \$33,060 (SO/1-S5/3). Opening date: September 30, 2001. Closing date: October 12, 2001.

Characteristic duties and responsibilities: tenure-track, **FULL-TIME PHYSICAL SCIENCE FACULTY POSITION**; nine-month contract. This faculty member will instruct freshman- and sophomore-level physical sciences courses and laboratories including astronomy, chemistry, geology, and physics in both traditional and distance education formats. Additional responsibilities include ordering and maintaining inventory control of class/laboratory chemicals, assisting with registration, advising, orientation with adjunct instructors, participating on faculty and campus committees, and other faculty-related assignments made by the Division Chair and/or Dean of Instruction.

Required qualifications: Bachelor's degree in a physical science subject area (chemistry, geology, etc.) and effective oral and written communication skills. Finalists will be required to present a brief teaching simulation (preferably in the chemistry area) before the Search Committee. Bachelor's degree must be in hand before January 7, 2002. Successful applicant must be willing to make continuous academic progress toward earning a Master's degree in a physical science subject area (preferably chemistry).

To apply: Send letter of interest, résumé, and complete transcripts to: **Eastern New Mexico University-Roswell, Human Resources Department, P.O. Box 6000, Roswell, NM 88202-6000. Telephone: 505-624-7412.**

ENMU-Roswell reserves the right to cancel, change, or close any advertised position at any time. The decision to do so will be based upon the needs of the University and the final determination will rest with the Provost. Applicants are responsible for submitting complete packet.

ENMU-Roswell is an Equal Employment Opportunity/Affirmative Action/Americans With Disabilities Act Employer.

## MAMMALOGIST

Tenure-track **ASSISTANT PROFESSOR**. Ph.D. in biology, zoology, or an appropriate subdiscipline in biology completed by 30 June 2002. Advanced coursework and research experience in mammalogy required. Preference given to applicants with broad training in biology. A strong commitment to college teaching, prior teaching at the college level, and experience working with diverse groups desired. Duties: teaching mammalogy; teaching introductory biology, zoology, and/or ecology courses; teaching undergraduate and graduate courses in other areas of specialization; 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: **Laurel Heffernan, Chair, Biological Sciences, California State University, Sacramento, CA 95819-6077. Website: <http://www.csus.edu/bios/>.** To ensure consideration, applications should be received by November 16, 2001; position open until filled. *Affirmative Action/Equal Employment Opportunity.*

## INVASIVE SPECIES SPECIALIST The Nature Conservancy

The California office seeks applicants for the Evan Frankel Conservation Science Fellowship. Candidates should be committed to the development and implementation of land management, public policy, and other strategies to abate invasive, exotic threats to priority conservation sites and species. Please see website: <http://nature.org/careers/> for job description, qualifications, and application details. *Equal Opportunity Employer.*

## POSITIONS OPEN

### BULLARD FELLOWSHIPS IN FOREST RESEARCH Harvard University

Each year Harvard University awards a limited number of Bullard Fellowships to individuals in biological, social, physical, and political sciences to promote advanced study, research, or integration of subjects pertaining to forested ecosystems. The Fellowships, which include stipends up to \$35,000, are intended to provide individuals in midcareer with an opportunity to utilize the resources and to interact with personnel in any department within Harvard University in order to develop their own scientific and professional growth. In recent years Bullard Fellows have been associated with the Harvard Forest, Department of Organismic and Evolutionary Biology, and the J. F. Kennedy School of Government and have worked in areas of ecology, forest management, policy, and conservation. Fellowships are available for periods ranging from six months to one year and can begin at any time in the year. Fellowships are not intended for graduate students or recent postdoctoral candidates. Information and application instructions are available on the Harvard Forest website: <http://lternet.edu/hfr/>. For additional information, contact: **Committee on the Charles Bullard Fund for Forest Research, Harvard University, Harvard Forest, P.O. Box 68, Petersham, MA 01366 U.S.A. E-mail: [drecos@fas.harvard.edu](mailto:drecos@fas.harvard.edu).** Annual deadline for applications is February 1. *Applications from international scientists, women, and minorities are encouraged.*

### FOREST CONSERVATION ECOLOGIST

The Department of Environmental and Plant Biology at Ohio University invites applicants at the **ASSISTANT PROFESSOR** level for a full-time, tenure-track appointment beginning in September 2002. Candidates must be committed to teaching undergraduates and developing an externally funded research program that involves M.S. and Ph.D. students. Experience and ongoing research in plant population ecology within temperate deciduous forest ecosystems is essential. The ideal candidate should also have sufficient tropical experience to teach a course on tropical ecology and serve as a resource person for students in Ohio University's Center for International Studies. Teaching responsibilities will include introductory plant biology courses and upper-level/graduate courses in tropical ecology, conservation biology, and/or plant population biology. Submit curriculum vitae, statements of teaching philosophy and research interests, reprints of up to five publications, and three letters of recommendation to: **Chair of the Search Committee, Department of Environmental and Plant Biology, 317 Porter Hall, Ohio University, Athens, OH 45701-2979.** Closing date is December 10, 2001. Inquiries may be directed to: **Philip D. Cantino, Chair; e-mail: [cantino@ohio.edu](mailto:cantino@ohio.edu); FAX: 740-593-1130.** Further information about the Department, college, and university can be accessed at websites: <http://www.plantbio.ohiou.edu> and <http://www-as.phy.ohiou.edu/>.

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

The Division of Immunogenetics in the Department of Pathology at Columbia University invites applications for a research-track **ASSISTANT PROFESSOR** position in the field of cellular/molecular immunology. Responsibilities include supervision of the flow cytometry laboratory, development of protocols, and research in the same area of immune regulation. Requirements are a Ph.D. with at least two years of postdoctoral experience in cellular and molecular immunology; expertise in T cell cultures and functional assays with excellent molecular and cellular biology skills is highly desirable. Send curriculum vitae and the names of three references to: **Dr. Nicole Suci-Foca, Pathology/Immunogenetics Division, Columbia University, 630 West 168th Street, New York, NY 10032.** *Columbia University is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### 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 stem cells of the nervous system including the differentiation and migration of both new neurons and oligodendrocytes. 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, and 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 that includes faculty from the Weill Medical College and the Sloan-Kettering Institute and in the Tri-Institutional M.D.-Ph.D. Program that 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, 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.*

### BIOCHEMICAL/BIOLOGICAL ENGINEERING AT YALE

The Department of Chemical Engineering at Yale University invites applications for an **ASSISTANT/ASSOCIATE PROFESSOR** position in biotechnology starting July 1, 2002. This position is part of the ongoing initiative at Yale University to expand its interdisciplinary bioengineering program involving the School of Medicine as well as various engineering and science departments. Applicants should preferably have at least one degree in chemical engineering and a Ph.D. focused on research in biochemical/biochemical engineering. Candidates are expected to have a strong interest in research and demonstrated expertise in biomedical/biotechnological processes, preferably involving bioseparation. The successful candidate will be expected to teach undergraduate and graduate courses in biomedical engineering, separation processes, biotechnology, and related chemical engineering sciences and develop a creative and dynamic externally funded research program.

Preference will be given to applications received before January 31, 2002. Nominations and applications with a detailed résumé, a description of research and teaching interests, and names and addresses of at least four references should be sent to:

**Biochemical Engineering Search Committee  
Department of Chemical Engineering  
Yale University  
P.O. Box 208286  
New Haven, CT 06520-8286**

*Yale University is an Affirmative Action/Equal Opportunity Employer and welcomes applications from women and members of minorities.*

### POSTDOCTORAL POSITION CARDIOVASCULAR RESEARCH

A Postdoctoral position is available immediately to study cellular and molecular mechanisms that contribute to oxidant stress and promote thrombosis. A background in biochemistry and/or molecular biology is desirable. Applicant must have a Ph.D. or equivalent. Interested applicants should send their curriculum vitae, bibliography, and names of three references to: **Dr. Joseph Loscalzo, Chief, Department of Medicine, Boston University School of Medicine, 715 Albany Street, Boston, MA 02118.**



## The Institute of Analytical Sciences, LYON (France)

### DIRECTOR POSITION

Within a project co-sponsored by the State and the Rhône-Alpes region, the CNRS and the University Claude Bernard, Lyon I are currently seeking a Director whose aim will be to create, launch and manage an internationally recognized Institute of Analytical Sciences.

This Institute will consist of a number of research teams, some of them resulting from existing laboratories (150 people), some to be created but also others resulting from strong collaboration with various partners such as CEMAGREF or CPE Lyon.

The goal of the Institute is to be an international centre for :

- *Research in analytical methods*
- *Analytical services*
- *Expertise with a National and European reputation*
- *Training in new technologies and methods in analytical sciences at the graduate and undergraduate level*
- *Research valorisation through entrepreneurship*

Its research, ranging from analytical chemistry to analytical biochemistry, will be in the following areas:

- *Food science*
- *Material analysis*
- *Pharmacology, analytical toxicology and proteomics*
- *Environment*
- *Instrumentation, analytical methodologies and computer science*

Applicants should have a world-class reputation in the area of analytical chemistry and a strong knowledge of industrial problems. People from industry are welcome to apply. Strong management and leadership skills are required since the Institute will have to launch and conduct major international projects in relation with industry as well as local, national and European government agencies and universities (research and teaching organisations). This will require the construction of a scientific, technical, administrative and financial structure. The ultimate goal for the Director is to make this Institute the centre of excellence for European research in analytical sciences.

Further information can be obtained from Prof. J. Remillieux (Université Claude Bernard, Lyon I), tel: 33 (0)4 72 43 12 82 e-mail: j.remillieux@ipnl.in2p3.fr

**Application deadline date is  
December 10, 2001.**

Please send resume and a covering letter to:  
Délégation Régionale à la Recherche  
et à la Technologie  
2 rue Antoine Charral  
69426 Lyon Cedex 03, France

BIOMÉRIEUX PIERRE FABRE

The Institut de Recherche Pierre Fabre is part of the BioMérieux-Pierre Fabre Group with dedicated R&D programmes in cardiovascular diseases, CNS disorders and cancer.

BioMérieux-Pierre Fabre is committed to ethical pharmaceuticals and diagnostics, employs over 13 300 collaborators worldwide and has an annual turnover of over 13 billion francs (2 billion US\$). The Institut de Recherche Pierre Fabre is now looking for a scientist to strengthen its cardiovascular drug discovery team.

### JUNIOR SCIENTIST IN PHARMACOLOGY

#### Leading edge cardiovascular drug discovery

You are likely to have recently obtained your PhD, or are completing a postdoctoral engagement. Familiarity with in vitro techniques and/or experience in the cardiovascular field would be an advantage.

This is a challenging opportunity for a motivated and dynamic scientist to work in a stimulating multidisciplinary team involved in original cardiovascular drug discovery programmes. Publication in high repute journals is encouraged.

The post is based at the Centre de Recherche Pierre Fabre in Castres, France, located 70 kms from Toulouse. Relocation assistance is provided.

Applicants are invited to send their CV, a motivation letter (ref. SC 70/01 MM) list of publications and the names and addresses of three referees to :  
**PIERRE FABRE MÉDICAMENT, DRH, Parc Industriel de la Chartreuse,  
81106 Castres Cedex.**

E-mail: recrutement.cadres.pfm@pierre-fabre.com

BIOMÉRIEUX

IEREC

Institut Suisse de Recherche Expérimentale sur le Cancer  
Schweizerisches Institut für Experimentelle Tumorforschung  
Swiss Institute for Experimental Cancer Research

UNIVERSITÉ  
DE LAUSANNE

LUDWIG  
INSTITUTE  
FOR  
CANCER  
RESEARCH

### Integrative Genomics Centre Lausanne

The Integrative Genomics Centre Lausanne is a new interdisciplinary training and research center of the University of Lausanne, which promotes integrated approaches to functional genomics. In collaboration with the Swiss Institute for Experimental Cancer Research and the Ludwig Institute for Cancer Research, Lausanne Branch, it will offer technology platforms in RNA profiling, Proteomics and Mammalian genetics. We are seeking to fill the position of a

#### RNA profiling Core-facility Coordinator

to assume the scientific leadership of the DNA array facility. The task of the coordinator will be to set-up the facility, to organize and supervise the operation of this high quality microarray resource accessible to peer-reviewed projects from the Lausanne-Geneva research community. The coordinator will have the opportunity to pursue an independent research project involving gene expression analysis and will receive a start-up grant.

The ideal candidates should have a minimum of 3 years postdoctoral experience in molecular biology/biochemistry or bioorganic chemistry. Previous experience in RNA profiling activities including data analysis and interpretation would be an advantage. A strong command of English is required.

Please send letter of application, together with a full CV, including a list of publications and the names of 3 academic referees to Prof. W. Wahli, DAF Steering Committee, University of Lausanne, BRA, CH-1015 Lausanne, Switzerland (walter.wahli@iba.unil.ch), **before October 31, 2001.**



## POSITIONS OPEN

Position available: The Cellular Neurobiology Research Branch, Intramural Research Program (IRP), National Institute on Drug Abuse (NIDA), National Institutes of Health (NIH), located in Baltimore, Maryland, is recruiting for a **TENURE/TENURE-TRACK POSITION** involving electrophysiological studies in drug abuse. Candidates should have a strong record of accomplishment in the use of a broad range of electrophysiological techniques to advance the understanding of the pharmacological and physiological actions of drugs of abuse. Expertise in synaptic physiology and whole cell recordings in brain slices is especially important. Knowledge and background in the study of abused drugs including cocaine, heroin, amphetamines, nicotine, and marijuana as well as a background in neuroscience is also important. The successful candidate for this position must hold a Ph.D., M.D., or D.O. degree with significant postdoctoral training in vertebrate neuroscience, neuropharmacology, or a related discipline. The position offers a competitive salary level and includes a full federal benefits package. The selectee may also qualify for up to \$35,000 in annual repayment of student loans. Interested applicants must submit curriculum vitae with bibliography; three letters of reference from noncollaborators; description of future research plans (no more than five pages); and a copy of the Doctoral degree (if in a foreign language, include a certified English translation) to: **Morgan DuBrow, Chief, Human Resources Management Section, NIH/NIDA/IRP, 5500 Nathan Shock Drive, Building C, Room 247, Baltimore, MD 21224.** The vacancy will be open until close of business on November 4, 2001. Late applications will not be considered. Questions regarding the vacancy may be referred to **Mr. DuBrow; Telephone: 410-550-1638; FAX: 410-550-2224; e-mail: mdubrow@intra.nida.nih.gov.** The NIH is an Equal Employment Opportunity Employer and applications from women and minorities are encouraged.

Western Maryland College invites applications for a tenure-track position in biochemistry at the level of **ASSISTANT PROFESSOR** to begin in August 2002. Ph.D. in biochemistry or a related field and a demonstrated potential for excellence in teaching are required. Responsibilities will include continuing development of a two-semester biochemistry sequence with laboratories and participation in both introductory chemistry and the development of a course designed for nonscience majors. The successful candidate will be expected to develop and sustain an active undergraduate research program in experimental biochemistry and have a commitment to attracting external funding. Submit a letter of application, curriculum vitae, philosophy of teaching and research at a liberal arts and sciences college, academic transcripts, and three letters of recommendation to: **Chair, Biochemistry Search Committee, Office of Academic Affairs, Western Maryland College, 2 College Hill, Westminster, MD 21157.** Review of applications will begin on November 1, 2001. Direct questions to e-mail: **mrosenth@wmdc.edu.** For reasonable accommodations, individuals with disabilities may **Telephone: 410-857-2479.** Western Maryland College is an Affirmative Action/Equal Employment Opportunity Employer and specifically invites and encourages applications from women and minorities.

### FACULTY POSITION IN BIOMEDICAL OPTICS

Harvard Medical School  
Wellman Laboratories of Photomedicine

Applicants for **ASSISTANT- or ASSOCIATE PROFESSOR**-level appointment in the area of biomedical optics are sought. Research topics of particular interest include spectroscopy, optical technology, tissue optics, and image processing. More detailed information about the Wellman Laboratories of Photomedicine and regarding the available position and application process is provided at **website: <http://www.mgh.harvard.edu/wellman>.** Women and minorities are encouraged to apply.

## POSITIONS OPEN



### FACULTY POSITIONS BEHAVIORAL NEUROBIOLOGY/ PHARMACOLOGY

Two **TENURE-TRACK FACULTY POSITIONS** (open rank; 12-month appointment) are available for Behavioral Neurobiologists/Pharmacologists at the University of Tennessee Health Science Center (UTHSC). UTHSC is expanding in selected areas of neurobiology, genomics, and bioinformatics. We seek faculty members who will be major contributors to our recently funded U. T. Center for Neurobiology of Brain Diseases. Candidates should be enthusiastic about engaging in collaborative research within a highly interactive community of Neuroscientists. To this end, the candidates will be responsible for establishing and operating a core behavioral neurobiology laboratory and directing independent programs in areas of research relevant to ongoing programs in drug abuse and psychopharmacology. Applicants should have a Doctorate in pharmacology, neuroscience, experimental psychology, or a related discipline; relevant postdoctoral experience; and a strong, extramurally funded research program. Please send curriculum vitae and three letters of reference to: **James M. O'Donnell, Ph.D., Chairman of the Behavioral Neuroscience Search Committee, University of Tennessee Health Science Center, 874 Union Avenue, Memphis, TN.** Applications will be reviewed beginning July 31, 2001, but will continue to be accepted until the position is filled. The University of Tennessee is an Equal Opportunity/Affirmative Action/Title VI/Title IX/Section 504/Americans With Disabilities Act/Age Discrimination in Employer Act Employer.

**ASSISTANT PROFESSOR** of biological sciences, Murray State University. Full-time, tenure-track position to begin August 2002. Qualifications: Ph.D. required with preference given to candidates with expertise in any of the following areas: immunology, gene control of differentiation, tumor biology, and/or cell cycle control. Requires postdoctoral experience and evidence of productive research. This position is the result of a recent Howard Hughes Medical Institute Award to enhance biomedical research and education. Responsibilities: Teach undergraduate- and graduate-level courses including a combination of core biology and service courses, immunology, and an advanced course in the candidate's area of expertise. Involve students in ongoing research. Develop programs capable of attracting external funding. To apply: Submit letter of interest, curriculum vitae, statement of teaching interests and philosophy, description of research, relevant reprints, copies of transcripts, and three reference letters to: **Dr. David Canning, Department of Biological Sciences, Murray State University, 334 Blackburn Science Building, Murray, KY 42071-3346.** Application deadline: November 1, 2001.

### AGROECOLOGISTS

Three **ASSISTANT** (preferred) or **ASSOCIATE PROFESSOR** positions at University of Wisconsin-Madison to help establish the University as a center for interdisciplinary research and education in agroecology. We seek two Ecologists to study (1) landscape-level interactions among pest insects in agroecosystems and (2) how managed grasslands can support livestock production, biodiversity, and ecosystem services and one Sociologist or Economist to study social structures and ecological dynamics of agriculture. Tenure homes in appropriate departments; joint appointments encouraged. Ph.D. or equivalent required. See **website: <http://www.cals.wisc.edu/AgroecologyPositions>.** Send letter, curriculum vitae, and letters from three references to: **Agroecology Initiative Search Committee, College of Agricultural and Life Sciences, University of Wisconsin-Madison, 140 Agricultural Hall, 1450 Linden Drive, Madison, WI 53706.** Deadline: November 26, 2001, or until suitable applicants are found.

## POSITIONS OPEN

### ASSISTANT PROFESSOR PLANT MOLECULAR BIOLOGY University of Florida

The Horticultural Sciences Department at the University of Florida is seeking a Plant Molecular Geneticist for a 12-month, tenure-track position (80% research, 20% teaching). The successful candidate will be expected to establish a strong, externally funded research program in the basic processes of molecular biology, cellular biology, or plant development. There will be an opportunity to interact with a strawberry improvement program given availability of funding. She/he will have the opportunity to develop a course in their area of expertise and be expected to participate in graduate education. Further information about the Department can be obtained at **website: <http://www.hos.ufl.edu/>.** The position offers opportunities for participation in the Plant Molecular and Cellular Biology program (**website: <http://www.ifas.ufl.edu/~PMCB/>**) and the Interdisciplinary Center for Biotechnology Research (**website: <http://www.biotech.ufl.edu/>**). Applicants should electronically submit (as a Word or WordPerfect attachment) a letter of application including a statement of interest and career goals; curriculum vitae; and the names, addresses, and e-mail addresses of at least three references to: **Dr. Rebecca Darnell, Horticultural Sciences Department, University of Florida, Gainesville, FL 32611.** E-mail: **rld@ufl.edu.** Applications will be reviewed starting November 15, 2001, and will continue until the position is filled. The University of Florida is an Equal Opportunity/Equal Access/Affirmative Action Employer.

### SEARCH EXTENDED

**ASSISTANT PROFESSOR**, tenure-track position with 12-month appointment. Candidate expected to develop and sustain an internationally recognized and extramurally funded research program in plant molecular biology. Preference given to candidates having interdisciplinary interests in conducting collaborative research on economically important crops. Appointee will develop and teach graduate courses in his/her area of specialty. Mississippi State University ranks eighth among U.S. universities in total agricultural research expenditures and has a commitment to advancing biotechnology. Commercial applications of biotechnology are encouraged. A Ph.D. in plant molecular biology or related field is required and postdoctoral experience is desirable. Send letter of intent, curriculum vitae, statement of research and teaching interests, and names of three references to: **Search Committee, Plant and Soil Sciences Department, Box 9555, Mississippi State University, Mississippi State, MS 39762.** Applications accepted until November 1, 2001, or until position is filled. For further information, contact: **Dr. Alan Wood, Director, Life Sciences and Biotechnology Institute; Telephone: 662-325-9208.** Affirmative Action/Equal Employment Opportunity Employer.

### ASSISTANT PROFESSOR

Curator of Vertebrate Paleontology

The University of Colorado at Boulder invites applications for a joint, tenure-track appointment as Curator of vertebrate paleontology in the University Museum and Assistant Professor in the Department of Geological Sciences. Primary responsibilities will be to develop a vigorous, externally funded research program; curate the vertebrate paleontology collections; and teach courses in the Museum and in geological sciences. Individuals working on tertiary vertebrates preferred. Applicants must have a Ph.D. or equivalent degree. Please send curriculum vitae; representative publications; statements of research, teaching, and curatorial experience; and three letters of reference to: **Dr. Dena M. Smith, Search Committee, UCB 218, University Museum, University of Colorado, Boulder, CO 80309.** Telephone: 303-735-2011; FAX: 303-492-4195; e-mail: **dena.smith@colorado.edu.** Applications must be postmarked by November 30, 2001. The University of Colorado is committed to diversity and Equality in Education and Employment.

## TENURE TRACK POSITION/APPLIED PHYSICS CORNELL UNIVERSITY

The School of Applied and Engineering Physics at Cornell University is seeking applications for a tenure-track, assistant professor position. Consideration of applications for an associate or full professor level position may also be given to exceptionally well qualified individuals.

Candidates must be able to demonstrate the ability to develop a highly successful independent research program in an area of applied physics, and to participate effectively in the teaching of the applied physics curriculum at both the undergraduate and graduate level. Research areas of interest in this search include, but are not limited to, optics and photonics, nanostructure science and technology, materials physics and biological physics. Prospective candidates who wish to pursue interdisciplinary research efforts are strongly encouraged to apply. The successful applicant can expect a very competitive level of support for the start-up of a research program, and considerable institutional resources are available at Cornell that can strengthen this research program and support interdisciplinary and collaborative research ventures. The successful candidate can expect to benefit from association with one or more of Cornell's interdisciplinary research centers, national facilities, and national resources. These include the NSF funded Cornell Center for Materials Research, the Nanobiotechnology Center, the Cornell Nanofabrication Facility (a major node of the National Nanofabrication Users Network), the Cornell High Energy Synchrotron Source, the Cornell Theory Center (a high performance computation facility), the Biotechnology Center, and the NIH funded resources for Macromolecular X-ray Diffraction and for Biophysical Imaging.

Applications consisting of a resume, a statement of teaching philosophy, a statement of research interests, copies of most significant publications or preprints, and the names and addresses of at least three references, should be submitted in hard copy to:

**CORNELL** Faculty Search Committee  
School of Applied and Engineering Physics  
212 Clark Hall, Cornell University  
Ithaca, New York 14853-2501

Review of applications will begin on December 1, 2001.  
Interviewing will begin after January 1, 2002 and will continue until the position is filled.

*Cornell University is an Affirmative Action/Equal Opportunity Employer and Educator and strongly welcomes nominations of, and applications from, women and underrepresented minorities.*

<http://www.cornell.edu>  
<http://chronicle.com/jobs/profiles/2377.htm>

## Virginia Bioinformatics Institute

### Join a cutting edge research team...



The Virginia Bioinformatics Institute (VBI) at Virginia Polytechnic Institute and State University seeks highly motivated scientists for our growing interdisciplinary research team. We seek individuals who can work collaboratively to

solve complex biological problems with a demonstrated ability to successfully compete for major sources of research funding.

VBI is recruiting faculty at all levels for research track positions with very competitive compensation packages. Tenure track appointments may be offered for exceptionally qualified candidates, in liaison with appropriate academic departments of the university.



We seek candidates with the following qualifications: Research focus in bioinformatics, computational biology, genomics, functional genomics, or proteomics; and background in the life sciences, physical sciences, computer science, engineering, statistics or mathematics.

Virginia Tech is a top 50 research university with strengths in engineering, information technology, and biotechnology. Our proximity to Washington, DC and federal agencies is a major advantage, as is the university's liberal intellectual properties policy (50% royalties to inventor).

### Send application materials to:

Please send a CV accompanied by a statement of your research and career plans to Virginia Bioinformatics Institute - Human Resources: [hr@vbi.vt.edu](mailto:hr@vbi.vt.edu). Electronic Documents in Adobe PDF or Microsoft RTF format are preferred.



Virginia Tech has a strong commitment to the principal of diversity and, in that spirit, seeks a broad spectrum of candidates including women, minorities, and people with disabilities. Individuals with disabilities desiring accommodations in the application process should notify Human Resources, Virginia Bioinformatics Institute, (540) 231-2100 or call the Virginia Telecommunications Relay Service at (800) 828-1120.

## Bryn Mawr College Keck Postdoctoral Research/Teaching Fellowships in Sciences/Mathematics

Bryn Mawr College, with support from the W. M. Keck Foundation, is continuing for academic year 2002-2003 a new program of postdoctoral research/teaching fellowships in science/mathematics. The program will provide support for scientists emerging from graduate programs with a traditional focus on research who want as well to make a strong commitment to teaching and to the mutually reinforcing benefits of teaching and research.

The undergraduate and graduate programs in the sciences and mathematics at Bryn Mawr College have a long history of high achievement in both teaching and research. Keck Postdoctoral Fellows will join this community for terms of three years, during which they will conduct research and teach (the equivalent of one course per semester) with strong faculty mentorship. They will also participate in programs aimed at further developing, for themselves and for the academic community at large, a respected and visible national community of "scientist/teachers."

Fellowship opportunities are available in a wide array of areas within sciences/mathematics. Interested candidates should review a list of faculty sponsors and information about application procedures at <http://serendip.brynmawr.edu/local/keck> (Office of the Provost, 610-526-5055 for additional information). Fellowships will include a stipend of \$40,000 a year, together with annual allowances of \$5,000 for supplies and \$1,000 for travel. Review of applications will begin on December 1, 2001.

Bryn Mawr is a liberal arts college for women with coeducational graduate programs in mathematics, sciences, some humanities and social work. The College supports faculty excellence in both teaching and research, and provides a rigorous education in the context of a diverse and pluralistic scholarly community. Located 11 miles west of Philadelphia, Bryn Mawr participates in consortial programs with the University of Pennsylvania, Haverford and Swarthmore Colleges.

*Bryn Mawr College is an Equal Opportunity, Affirmative Action Employer. Minority candidates and women are especially encouraged to apply.*



## NATIONAL INSTITUTES OF HEALTH NATIONAL EYE INSTITUTE

### Job Opportunities

The National Eye Institute Intramural Program at the NIH campus, Bethesda, MD., is seeking highly qualified Postdoctoral Fellows, Research Associates and Staff Scientists in the following areas:

- Molecular Biology
- Cell Biology
- Immunology
- Psychophysics
- Biochemistry
- Epidemiology
- Biostatistics

**Salaries range from \$29,000 to \$118,400 per annum, based on experience and type of appointment.**

NEI offers an extensive benefits package that you may be eligible for, depending on the appointment mechanisms: Health Benefits, Life Insurance, Retirement Benefits, Annual and Sick Leave, Formal Training Program, Recruitment Bonus, Retention Allowance, Relocation Allowance, Loan Repayment Program, and Travel Benefits.

Candidates interested in specific job opportunities at the NEI may visit the NEI web site at <http://www.nei.nih.gov/> listing the most current positions available.

**NIH/NEI is an Equal Opportunity Employer**

## POSITIONS OPEN

### FACULTY POSITION

#### Vision Research

#### SUNY Upstate Medical University

A tenure-track faculty position at the **ASSOCIATE PROFESSOR** or **PROFESSOR** level is available in the Department of Ophthalmology at the State University of New York Upstate Medical University for an individual holding an M.D. and/or Ph.D. degree. The individual recruited into this position will be expected to have a research program investigating the genetic, molecular, and cellular basis of eye development, function, or disease. The Department of Ophthalmology is home to the Center for Vision Research, which brings together Vision Scientists from a variety of departments with common research interests. The successful applicant will be using or developing animal models as a mainstay of the research program. Excellent laboratory space and facilities, substantial start-up funds, and a competitive salary will be provided. The Department expects to continue significant expansion in the future.

Applicants should send curriculum vitae, a summary of research accomplishments, a detailed research plan, and three reference letters to: **Dr. Robert Barlow, Professor and Director, Center for Vision Research, c/o Ms. Edwina Charlton, Department of Ophthalmology, SUNY Upstate Medical University, 550 Harrison Street, Suite 340, Syracuse, NY 13202.** SUNY Upstate Medical University is committed to increasing representation of women and minority groups on its faculty and particularly encourages applications from such candidates. Upstate Medical University is an Equal Employment Opportunity/Affirmative Action Employer seeking excellence through diversity.

### FACULTY POSITIONS

The University of Arkansas invites applications for two tenure-track positions in cellular, molecular, or developmental biology. Appointees will join the Department of Biological Sciences and the Center for Protein Structure and Function ([website: http://www.uark.edu/protein](http://www.uark.edu/protein)) and also participate in the Program for Cell and Molecular Biology ([website: http://www.uark.edu/depts/cemb/cemb.html](http://www.uark.edu/depts/cemb/cemb.html)). Examples of research areas include but are not limited to cellular receptors and transporters, transcription, translation, chromatin structure, and signal transduction. Successful candidates must have a Ph.D. and postdoctoral experience and will be expected to establish and maintain an extramurally supported research program, supervise graduate students, and teach at the graduate and undergraduate levels. Review of completed applications will begin November 19, 2001, and will continue until the positions are filled. Applications should include curriculum vitae, a statement of research interests and teaching interests, reprints of published papers, and at least three letters of recommendation. Application materials should be addressed to: **Dr. Ralph Henry, Search Committee Chair, Department of Biological Sciences, Room 19 WAAX, University of Arkansas, Fayetteville, AR 72701.** The University of Arkansas is an Equal Opportunity/Affirmative Action Employer. Applicants must have proof of legal authority to work in the United States at the time of hire.

The Viral Diseases Unit at the University of Pittsburgh is recruiting a Research Virologist, Viral Immunologist, or Biochemical Pharmacologist with interests in virology at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR**. Candidates should have an M.D., Ph.D., or equivalent and have sufficient experience to establish an independent, funded research program in basic virology, immunology, or biochemical pharmacology. Competitive salary and start-up packages are available including newly renovated laboratory and office space. Send curriculum vitae, summary of research interests, and names of three references to: **John W. Mellors, M.D., Chief, Infectious Diseases Division, Director, HIV/AIDS Program, University of Pittsburgh, Scaife Hall, Suite 818, 3550 Terrace Street, Pittsburgh, PA 15261.** Telephone: 412-624-8512; FAX: 412-383-7982; e-mail: [fern@pitt.edu](mailto:fern@pitt.edu). The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

Two positions at the **ASSISTANT PROFESSOR** level are available starting August 1, 2002, for a Molecular Geneticist and a Vertebrate Biologist in the Department of Biology at the University of North Carolina at Greensboro. Successful candidates are expected to develop an extramurally funded research program involving graduate and undergraduate students. Areas for research emphasis are open. Applicants should have a Ph.D. and a strong research record. Teaching responsibilities will include genetics and vertebrate biology, respectively, and specialty courses.

The Department of Biology consists of 29 full-time faculty members in addition to supporting staff. Excellent facilities are available, which include automated sequencers; equipment for gene analysis; a small animal care facility; a greenhouse; and a full suite of analytical and environmental monitoring equipment. Opportunities exist for involvement in a universitywide genomics initiative and for interactions with North Carolina's biomedical/biotechnology and environmental communities and at many nearby colleges and universities.

Send cover letter, curriculum vitae, statements of research and teaching interests, and arrange for three letters of reference to be sent, respectively, to: **Chair, Geneticist Search Committee or Chair, Vertebrate Biologist Search Committee, Department of Biology, University of North Carolina at Greensboro, P.O. Box 26174, Greensboro, NC 27402-6174.** Review of completed applications will begin on December 3, 2001. For information, visit our **website: <http://www.uncg.edu/bio>.** Equal Opportunity/Affirmative Action; Women/Minorities/Veterans/Disabled.

**BIOLOGICAL SCIENCES:** Two tenure-track appointments are available effective August 2002. **ASSISTANT TO FULL PROFESSOR** ranks. Salaries will be competitive based upon credentials and experience. Requirements: Ph.D. in relevant field, demonstrated excellence in teaching, commitment to a learning-centered environment, publication record commensurate with anticipated rank, and ability to attract extramural funding for research program. Plant Scientist. Primary expertise in plant genetics, population biology, and/or ecology. Marine Biologist/Zoologist. Ability to teach in variety of courses as well as specialization; some training in invertebrate zoology highly desirable. Chapman, an independent, comprehensive university, is located in Orange County, California, in a culturally diverse community. *U.S. News and World Report* has ranked the academic quality of Chapman in the upper quartile of all four-year colleges and universities in the western United States. Submit cover letter; résumé; samples of scholarly work; and five references (telephone numbers, addresses, and e-mail addresses) to: **Dr. Anna Brownell, Chapman University, Orange, CA 92866.** E-mail: [brownell@chapman.edu](mailto:brownell@chapman.edu). Application review begins immediately and continues until the positions are filled. Chapman University values diversity and is committed to providing equal career opportunities to all individuals.

### EVOLUTIONARY GENETICIST

Tenure-track position at the **ASSISTANT PROFESSOR** level beginning August 2002 for an Empirical Geneticist whose research program should use molecular methods to address genetics in an evolutionary context. Candidates must possess a Ph.D. and have the potential to develop a research program involving significant undergraduate participation. Responsibilities include teaching upper-division courses in the areas of genetics and/or evolution, participation in the introductory curriculum, and academic advising. Applicants should send curriculum vitae, statement of teaching philosophy, summary of research interests, and names and telephone numbers of three references to: **Professor David O. Ribble, Chair, Department of Biology, Trinity University, 715 Stadium Drive, San Antonio, TX 78212.** Application deadline is 29 October 2001. Trinity University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are strongly encouraged to apply.

## POSITIONS OPEN

### FACULTY POSITION

#### INTEGRATIVE GENOMICS

#### University of Michigan Medical School

The Department of Physiology at the University of Michigan seeks to fill a tenure-track faculty position (**ASSISTANT/ASSOCIATE PROFESSOR**). Applications are invited from individuals using genetic manipulation and functional measurements to study the function and integration of gene products in a tissue or animal. The selected individual is expected to mount a vigorous research program and participate in the teaching of graduate and professional students. Applicants will be considered for appointment as a Biological Sciences Scholar at Michigan (See *Science* August 10, page 1191) and will receive a very generous start-up package. The individual will also participate in the Center for Integrative Genomics, which features facilities for sophisticated functional measurements in mice. The Medical School possesses an outstanding transgenic animal facility and the University is developing a new Life Sciences Institute, which will contribute to the superb research environment. Applicants should submit their curriculum vitae, a two-to-four-page summary of past and planned research, and three letters of recommendation to:

**Dr. John A. Williams**  
Chair, Department of Physiology  
University of Michigan  
Ann Arbor, MI 48109-0622  
E-mail: [jawillms@umich.edu](mailto:jawillms@umich.edu)

**Website:** <http://www.med.umich.edu/phys/>

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

The University of Pittsburgh, Department of Biological Sciences, is currently seeking applicants for appointment as **LECTURER** or **SENIOR LECTURER** (depending on qualifications) and **ASSISTANT CHAIR OF ACADEMIC AFFAIRS** pending budgetary approval. The successful candidate will work closely with the Chair on all aspects of academic administration including course offerings, curriculum, and staffing. He or she will coordinate the Teaching Assistant program and programs related to enhancing undergraduate education, oversee undergraduate advising, and serve as point person for academic and judicial affairs. Applicants for the position must have a Ph.D. in biological sciences and a record of demonstrated excellence in undergraduate instruction. The position will be on a 12-month basis. The initial appointment will be for three or five years subject to annual renewal depending on the qualifications and experience of the candidate. Submit a letter of interest, curriculum vitae, a statement of teaching philosophy, and three letters of reference to: **Dr. James M. Pipas, Department of Biological Sciences, A234 Langley Hall, University of Pittsburgh, Pittsburgh, PA 15260.** Applications must be received by November 15, 2001. For more information about our department, visit **website: <http://www.pitt.edu/~biology>.**

The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups underrepresented in academia are especially encouraged to apply.

### GROUP LEADER

#### Protein Chemistry/

#### Mass Spectrometry Core Facility

**RESEARCH/SERVICE POSITION** available for Scientist to head a protein chemistry laboratory within a larger mass spectrometry core facility. Applicant must have a strong background in protein purification and MS analysis. He/she is expected to lead a small, independent research group and to collaborate with leading research groups at the University of Geneva. Earliest starting date: January 1, 2002. Please send curriculum vitae; summary of research interests; and names and addresses of three references by November 15, 2001, to: **Professor David Shore, Department of Molecular Biology, University of Geneva, 30 quai Ernest-Ansermet, CH-1211, Geneva 4/Switzerland.**

**Institute of Medical Sciences  
Regius Chair of Physiology  
and  
Kosterlitz Chair of Pharmacology**

Applications are invited for two prestigious, established Chairs in the Department of Biomedical Sciences. For both posts applicants will have an international reputation, a proven record of high quality publications and very strong research grant income. Each will be expected to head a vibrant research team and to provide academic leadership in their field. The research strengths of the Department lie in Neuroscience, Neuropharmacology, Developmental Biology and Cell Signalling. However, these are broadly interpreted and we would encourage applications from candidates with drive and vision whose interests lie in these and other areas. Both posts and associated laboratories will be housed in the new Institute of Medical Sciences, on the Foresterhill Medical Campus. Phase II of the new building will open in July 2002 and this will bring the total complement of biomedical researchers in the Institute to around 400. A full range of state-of-the-art research equipment is available and the new Institute has fostered strong and successful collaborative research groupings across a number of areas.

Informal enquiries may be directed to Professor Colin McCaig, Head of Department of Biomedical Sciences (tel: 01224 273047, e-mail: c.mccaig@abdn.ac.uk), or Professor Stephen Logan, Professor of Neuroscience and Provost of the Faculty of Medicine & Medical Sciences, (tel: 01224 559243, e-mail: s.d.logan@abdn.ac.uk).

Application forms and further particulars are available from The Director of Human Resources, University Office, King's College, Aberdeen AB24 3FX, tel: 01224 273747 quoting reference no FBS040A for the Regius Chair of Physiology or reference no FBS058A for the Kosterlitz Chair of Pharmacology. A 24-hour answering service is in operation. Closing Date: 22 October 2001. An Equal Opportunities Employer



**University of California, Santa Cruz  
Center for Biomolecular Science  
and Engineering**

<http://www.cse.ucsc.edu/centers/cbe/>

The Center for Biomolecular Science and Engineering (CBSE) at the University of California, Santa Cruz invites applications for three faculty positions at all levels in the general areas of bioinformatics and biomolecular engineering for the 2002-2003 academic year. We are particularly interested in the areas of comparative sequence analysis, biological databases and data mining, computational simulation and system modeling, automation and innovative technologies for high throughput experimentation, microfluidics, proteomics, and nanoscale biosensors. Candidates should have outstanding research records demonstrating interdisciplinary approaches to important problems in biology, genomics, biomedicine, or related areas, and a willingness to participate in the academic programs of the CBSE. The CBSE is an interdisciplinary research and academic organization spanning the Baskin School of Engineering and the Division of Natural Sciences, and is directed by Hughes Investigator and UC Presidential Chair of Computer Science David Haussler. Candidates will initially be hosted by one of our existing departments, then transfer to the new department of Biomolecular Engineering upon its initiation.

Screening will begin with applications received by January 7, 2002, and continue until the positions are filled. Positions available Fall of 2002, pending final budgetary approval. For complete descriptions and application instructions, please see <http://www.soe.ucsc.edu/events/jobs/>.

*UCSC is an AA/EEO/IRCA Employer.  
Women and minorities are encouraged to apply.*

**Postdoctoral/scientist positions:** Three positions are available in the newly formed laboratory at the Diabetes Branch of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health (NIH), to study pancreatic islet cell development, with an emphasis on islet stem cell biology and applications of islet transplantation to treatment of diabetes. Applicants are expected to have a strong background in cellular and developmental biology. Expertise in biology of pancreas is preferred but not required. The positions offer an exceptional opportunity to study pancreatic differentiation using several model systems, and to explore the relationships between pancreatic and non-pancreatic development within the interdisciplinary approaches of stem cell biology. Salary is commensurate with experience. Interested applicants should send a curriculum vitae and names of three references to: **Ms. Kay Place, NIDDK/NIH, Bldg. 10, Rm. 9N222, 10 Center Dr., Bethesda, MD 20892-1818.**

**Research associate/technician:** Position is available in the newly formed laboratory at the Diabetes Branch of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health (NIH), to study pancreatic islet cell development and applications stem cell technology to treatment of diabetes. Applicant must have a B.S. or M.S. degree in biochemistry, molecular biology or cell biology with at least 2 years of professional experience. Expertise in standard molecular biological, biochemical, and mammalian cell culture techniques is required. Responsibilities include performing laboratory experiments independently as well as a part of a team, keeping records of experimental procedures and reagents, and conducting laboratory management/organizational tasks. Salary is commensurate with experience. Interested applicants should send a curriculum vitae to: **Ms. Kay Place, NIDDK/NIH, Bldg. 10, Rm. 9N222, 10 Center Dr., Bethesda, MD 20892-1818.**



**Around here, growth is more than a priority.  
It's life itself.**

Syngenta was founded by the merger of Novartis Agribusiness and Zeneca Agrochemicals, bringing together two companies with a history of outstanding research productivity. Syngenta is a leading global agribusiness, employing more than 20,000 people worldwide and operating across all major areas of crop protection and seeds. We are currently seeking a Post-doctoral Scientist to join the Insect Resistance Group at our state-of-the-art biotechnology research facility located in Research Triangle Park, North Carolina.

**POST DOCTORAL SCIENTIST in cell molecular biology**

Using your cell biology and molecular biology expertise, you will join a team of scientists working on a multidisciplinary research project focused on the elucidation of the mode of action of insecticidal protein toxins and transgenic insecticidal crops. Candidates for this position must have a proven record of interest and accomplishment in the area of protein toxin mode of action, insect molecular biology or a related field. Excellent written and oral communication skills are required.

At Syngenta, we offer our post docs a competitive salary, a comprehensive benefits package including a relocation package, and an environment conducive to professional achievement. For prompt consideration, e-mail your resume to **biotech.jobs@syngenta.com**, referencing #0154 in the subject line.

**syngenta**

## POSITIONS OPEN

The University of North Carolina at Chapel Hill seeks applicants for a position in tissue engineering or closely related fields. The position will be held jointly between Health Affairs and The College of Arts and Sciences. The home academic units (e.g., orthopaedics, dentistry, biomedical engineering in Health Affairs, and materials sciences in the College of Arts and Sciences) will be set according to the qualifications of the successful candidate. The successful applicant is expected to establish a world-class, interdisciplinary research program training graduate and undergraduate students in a variety of aspects of the design and construction of artificial tissue. Ideally the program will complement existing research programs. In addition to research or clinical duty, the applicant will teach one course per year on average in Arts and Sciences.

We require four letters of reference, complete curriculum vitae with publications list, and a four-page plan describing the research program that you propose to initiate. All of these materials should be sent to:

**Search Committee Coordinator**  
**CB Number 3287, 18-1A Venable Hall**  
**University of North Carolina at Chapel Hill**  
**Chapel Hill, NC 27599-3287**

*The University of North Carolina at Chapel Hill is an Equal Opportunity Employer.*

## FACULTY POSITION

**Harvey and Bernice Jones Eye Institute**  
**University of Arkansas for Medical Sciences**

The Department of Ophthalmology invites applications for a full-time, tenure-track position at the **ASSISTANT PROFESSOR** level to establish an independent research program with sustained extramural funding in the area of immunology/pathogenesis of corneal disease caused by virus infection (e.g., recurrent HSV-1 keratitis or adenovirus conjunctivitis). The successful candidate will hold a joint appointment in the Department of Microbiology and Immunology and augment the existing research programs of the Arkansas Center for Eye Research. A generous and competitive start-up package with exceptional laboratory space in a modern ophthalmology research facility is available. Candidates must have a Ph.D. or M.D. degree and at least two years of postdoctoral experience. Review of applications will begin October 1, 2001, and continue until the position is filled. Candidates should send complete curriculum vitae, a statement of research interests and goals, and the names of three references to: **Richard D. Dix, Ph.D., Jones Eye Institute, University of Arkansas for Medical Sciences, 4301 West Markham Street, Slot 523, Little Rock, AR 72205. E-mail: dixrichardd@uams.edu.**

## BOTANIST EVOLUTIONARY GENETICIST

University of Wisconsin-Eau Claire, a selective, primarily undergraduate, comprehensive university, seeks two tenure-track **ASSISTANT PROFESSORS** beginning August 2002 to serve in a highly collegial, modern biology department. (1) Botanist to teach upper-level course(s) in specialty and introductory courses including plant form and function. (2) Evolutionary Geneticist to teach genetics, biostatistics, and introductory courses including ecology and evolution. Candidates must enjoy teaching both majors and non-majors. The Department strives for excellence in teaching and encourages student/faculty development through support of research. The successful candidate will have newly renovated teaching and research facilities and substantial start-up funds. The University supports ongoing research through internal programs and assistance in extramural grant development. Ph.D. required. Priority deadline: December 3, 2001. Send inquiry to: **Chair, Department of Biology, University of Wisconsin-Eau Claire, Eau Claire, WI 54702-4004. E-mail: weilmr@uwec.edu; Telephone: 715-836-4166; FAX: 715-836-5089.** More information at [website: http://www.uwec.edu/Academic/Biology/biology.html](http://www.uwec.edu/Academic/Biology/biology.html). *Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### RESEARCH INSTRUCTOR

The Division of Geographic Medicine is seeking a new faculty member to address issues related to STD/HIV prevention research and training. Current faculty interests include malaria, toxoplasmosis, filariasis, onchocerciasis, HIV, pneumocystis, arboviruses, bluetongue virus, and other opportunistic infections. This is a full-time, non-tenure track faculty position. We are seeking applicants with experience in international health, HIV/STD prevention research in international settings, and experience managing international training and research programs. Graduate training in epidemiology and international health and experience in student project supervision is highly desirable. The incumbent will assume the direction of several international training and research programs at UAB and will be expected to be fully grant funded during their UAB employment. Expected start date is October 1, 2001. Interested applicants should contact:

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

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

**BIOCHEMISTRY FACULTY POSITION,** Middlebury College. The Department of Chemistry and Biochemistry at Middlebury College invites applications for a tenure-track position beginning fall 2002 in the area of biochemistry. Ph.D. Chemists, Biochemists, or Molecular Biologists with background and interests in experimental biochemistry are encouraged to apply. The successful candidate should be committed to excellence in both teaching and scholarship. Teaching requirements include lecture and laboratory courses in biochemistry, general or organic chemistry, and an upper-division elective of choice. The successful candidate is expected to establish an externally funded research program that includes undergraduates. Completed application should include curriculum vitae, statements of teaching and research interests, undergraduate and graduate transcripts, a sample of scholarly work, and at least three current letters of recommendation that speak to experience as a teacher and potential for developing a research program. A more detailed description of the position is available on our [website: http://www.middlebury.edu/~dofac/information/new\\_faculty\\_positions.html](http://www.middlebury.edu/~dofac/information/new_faculty_positions.html). All materials should be sent to: **R. G. Cluss, Department of Chemistry and Biochemistry, Middlebury College, Middlebury, VT 05753** and must be received by November 6, 2001. *Middlebury College is an Equal Opportunity Employer and it encourages applications from women and members of minority groups*

Proteom Tech, Inc. is a biotech start-up company specializing in high-throughput protein refolding and purification with facilities in Oklahoma and California ([website: http://www.ProteomTech-Inc.com](http://www.ProteomTech-Inc.com)). The following positions are available immediately with competitive salary and generous stock options. **SCIENTIFIC DIRECTOR:** Ph.D. in biochemistry. Experience with protein purification required. *E. coli* expression, inclusion body purification, and refolding preferred. **PRODUCTION MANAGER/DIRECTOR:** B.S. or M.S. in biochemistry/biology/chemistry. Production experience with biotechnological, pharmaceutical, or medical products. Excellent planning, organization, interpersonal, and communication skills in a multiple-product environment. **RESEARCH SCIENTISTS:** Ph.D. in biochemistry, biology. The Scientist will be in charge and perform gene search, protein analysis, and high-throughput gene cloning into *E. coli* expression vectors. Experience with database search and good skills in gene cloning are plus. Interested party may send résumé by e-mail: [galbraith@proteomtech-inc.com](mailto:galbraith@proteomtech-inc.com); FAX: 405-271-7180.

## POSITIONS OPEN

### FACULTY POSITION PHYSIOLOGICAL ECOLOGY

**University of Alaska Fairbanks**

We are seeking a colleague for a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR** position with the Institute of Marine Science, School of Fisheries and Ocean Sciences. The position is partially funded through the NSF EPSCOR program in integrative physiology. A Ph.D. in a biological science and postdoctoral experience that includes the use of stable isotopes (in natural abundance or as added tracers) in research related to physiological ecology are required. Applicants must have a strong record of research and publication commensurate with rank. A complete job description can be found at [website: http://www.uaf.edu/uafhr/jobs/Faculty.html](http://www.uaf.edu/uafhr/jobs/Faculty.html). The successful candidate will be expected to maintain an extramurally funded research program that includes isotopic approaches for investigating the physiology of marine organisms, to teach graduate courses, and to advise graduate students.

A UAF application form ([website: http://www.alaska.edu/UA/hr/index.html](http://www.alaska.edu/UA/hr/index.html)) must be submitted. The application; a cover letter; and contact information for at least three professional references should be submitted by 5 p.m. October 30, 2001, to: **Dr. Michael Castellini, Attention: Wendy Frandsen, School of Fisheries and Ocean Sciences, University of Alaska Fairbanks, Room 245 O'Neill Building, P.O. Box 757220, Fairbanks, AK 99775-7220.** *The University of Alaska Fairbanks is an Equal Opportunity/Affirmative Action Employer and Educational Institution. Your application for employment is subject to public disclosure under the Alaska Public Records Act.*

### DIRECTOR NMR FACILITY

The Department of Chemistry and Chemical Biology, Rutgers, The State University of New Jersey, has a position available as Director of NMR Facility. This position is responsible for overseeing the operation of spectrometers, bringing in new technology, and providing comprehensive NMR spectroscopy applications support by developing and implementing state-of-the-art experiments in high-resolution biological NMR as well as in other areas of chemistry. In addition, research opportunities will be available and are actively encouraged. A Ph.D. in biological NMR or equivalent experience is required. Interested candidates should send curriculum vitae and letters of reference to: **Frank W. Henrikson, Department of Chemistry and Chemical Biology, Rutgers University, 610 Taylor Road, Piscataway, NJ 08854-8087.** *Rutgers University is an Equal Opportunity/Affirmative Action Employer.*

### JUNIOR FACULTY/ POSTDOCTORAL POSITION NEUROPHYSIOLOGIST

**New York Medical College**

Two positions are available to study intercellular communication in brain slices between astrocytes and neurons using two-photon confocal imaging and patch clamp techniques (see *Nature Medicine* 7:1010-1015, 2001; *Neuron* 30:503-513, 2001). Background in neurobiology and electrophysiological techniques is required. Experience in immunohistochemistry and calcium imaging is desirable. Contact: **Maiken Nedergaard, M.D., Ph.D., Department of Cell Biology and Anatomy, New York Medical College, Valhalla, NY 10595. E-mail: maiken\_nedergaard@nymc.edu.**

**RESEARCH STAFF SCIENTIST** to conduct research related to diseases affecting the immune system. Ph.D. in biomedical science preferred. Experience required. Send résumé to: **L. Sharon, Cellular Technology, Limited, 10515 Carnegie Avenue, Suite 501, Cleveland, OH 44106. E-mail: ljs@immunospot.com.**





## BIOCHEMISTRY & MOLECULAR BIOLOGY

### ASSISTANT PROFESSOR

The Department of Biochemistry and Molecular Biology is seeking an outstanding scientist for a tenure-track appointment. We are most interested in an investigator who will apply an interdisciplinary approach in an area of broad biological importance.

We will offer an attractive start-up package, competitive salary, and the opportunity to work in an excellent scientific environment. Faculty are expected to establish a competitive research program and to assist in graduate and medical school teaching. Candidates with a Ph.D. and several years of postdoctoral experience should apply by November 16, 2001, sending a copy of their curriculum vitae, a description of research plans and goals and the names of three references to:

**Search Committee**  
**Department of Biochemistry and Molecular Biology**  
**Oregon Health & Science University**  
**3181 SW Sam Jackson Park Road, L224**  
**Portland, OR 97201-3098**  
**<http://www.ohsu.edu/som-biochem>**

*OHSU is an Affirmative Action/Equal Opportunity Employer*

### Tenure Track Faculty Positions in Biomedical Engineering

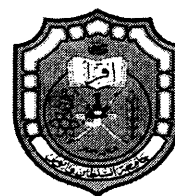
The College of Engineering at UC Davis invites applications from qualified candidates for two tenured or tenure-track faculty positions in the area of biomedical engineering. Our new Department of Biomedical Engineering has received a Leadership-Development Award from the Whitaker Foundation and will add ten new faculty members over the next five years. Senior candidates should have an outstanding international research reputation in biomedical engineering and a track record of interdisciplinary collaboration. Junior candidates should have outstanding research potential. A Ph.D. degree in biomedical engineering or a related discipline is required. Particular areas of interest include cellular engineering, computational bioengineering, and the development of new therapeutics. BME will be located in a new facility with a Genomics Center and Center for Molecular Medicine. Therefore, candidates whose research impacts functional genomics are particularly encouraged to apply. Applicants must be able to teach core undergraduate and graduate courses, and be willing to help establish an innovative multidisciplinary curriculum in the field of biomedical engineering.

The Davis campus is the third largest in the University of California system. UC Davis ranks among the nation's top 20 universities in research funding and has been rated as one of the top five "up and coming" universities in the country. Davis is a pleasant, family-oriented community in a college-town setting with excellent public schools and a mild climate. Davis is ideally located for many recreational, cultural, and professional activities. It is just 15 miles from California's capital city of Sacramento and is within easy driving distance of the Sierra Nevada Mountains, San Francisco, Berkeley, Silicon Valley, wine country, and the Pacific Coastal areas.

Interested individuals should forward their resume, a summary of teaching and research plans, and the names of at least five professional references to: **Professor Katherine W. Ferrara, Chair, Department of Biomedical Engineering, University of California, One Shields Avenue, Davis, CA 95616-5294**. The positions will remain open until filled, however, to ensure consideration, applications should be submitted by December 1, 2001. The UC Davis College of Engineering is committed to building a diverse faculty, staff, and student body as it responds to the changing population and educational needs of California and the nation. <http://www.bme.ucdavis.edu>

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

## GLOBAL OPPORTUNITIES



### SULTAN QABOOS UNIVERSITY COLLEGE OF AGRICULTURE UNESCO Chair in Seafood Biotechnology

Sultan Qaboos University, the national University of the Sultanate of Oman, is seeking an outstanding individual in Fisheries / Food Sciences to fill the newly established UNESCO Chair in Seafood Biotechnology. The aim of the Chair is to promote an integrated system of research, training, information and documentation in the field of advanced applied process biotechnologies, food safety and environmental protection. It will also serve as a means of facilitating collaboration between high-level, internationally recognized researchers and teaching staff of the University and other institutions. The Chair is expected to work closely with the Head of Department of Marine Science and Fisheries and the Department of Food Science and Nutrition in the development of value added seafood products. Superb facilities, coupled with Oman's spectacular marine environment, make this a prestigious position with considerable potential. We are looking for an experienced individual with vision, a strong research record, experience in graduate supervision, knowledge of food processing and a commitment to participative, collegial management.

The University is located near the capital area and close to excellent international schools and unique recreational areas. Apart from a very attractive tax free base salary, Sultan Qaboos University offers free furnished accommodation, excellent recreational facilities on campus, subsidized schooling for up to two children, 60 days annual leave with return air tickets, end of service gratuity and free medical treatment in Government Hospitals in the Sultanate.

Enquiries can be addressed to the Dean of the College of Agriculture, Prof. Mattheus F.A. Goosen, at [theog@squ.edu.om](mailto:theog@squ.edu.om). Applications should include a statement of interest, a detailed curriculum vitae, names and addresses of three referees and reprints of the applicant's three most important scientific contributions in the field of seafood biotechnology. The position will remain open until filled, but applications received before December 31<sup>st</sup> will be given highest priority. The University reserves the right not to make an appointment.

Please send applications, quoting our Ref: ADV/AGRI/07/2001, to:

**The Director, Personnel Affairs,  
Sultan Qaboos University,  
P.O.Box 50, Postal Code 123,  
Al-Khod, Sultanate of Oman  
Fax: (00968) 513255  
Email: [nair@squ.edu.om](mailto:nair@squ.edu.om)**

## POSITIONS OPEN

### ASSISTANT/ASSOCIATE PROFESSOR Molecular Biology/Genetics

The Department of Biological Sciences, Florida State University, is seeking to fill a tenure-track faculty position in the broadly defined area of molecular biology and genetics. The successful candidate will be expected to establish a vigorous research program in an area of molecular biology/genetics that complements existing strengths within the Department in developmental biology/gene expression, cellular dynamics, motility/contractility, neuroscience, and evolution. The Department of Biological Science maintains a broad range of state-of-the-art core facilities. Teaching will be at the graduate and undergraduate levels.

Candidates for Assistant Professor must have significant postdoctoral training and a record of productivity. Candidates for Associate Professor must have a distinguished track record. Send curriculum vitae, statement of research interests, two selected reprints, and have three letters of reference sent to: **Molecular Biology/Genetics Search Committee, Department of Biological Science, Florida State University, Tallahassee, FL 32306-1100.** To receive full consideration, applications must be received by November 12, 2001. For more information, see website: <http://www.bio.fsu.edu>; e-mail: [mbgsearch@bio.fsu.edu](mailto:mbgsearch@bio.fsu.edu).

Florida State University is an Equal Opportunity/Affirmative Action Employer committed to diversity of hiring and a Public Records Agency.

### NEUROSCIENTIST

The University of South Dakota School of Medicine invites applications to fill the tenure-track position of **ASSISTANT** or **ASSOCIATE PROFESSOR**. We seek candidates who have research interests in systems, cellular, or molecular neuroscience and who will be able to integrate into the Neuroscience group within the Division of Basic Biomedical Sciences. The Neuroscience group recently obtained a Center of Biomedical Research Excellence (COBRE) award for studies of adaptive behavior; information about the group and the Division can be found at website: <http://www.usd.edu/neurogroup/>. Candidates must have a Ph.D., M.D., or equivalent; postdoctoral experience; and must show a high potential for external funding. The candidate will be expected to participate in the teaching responsibilities of the Division including courses in the graduate and medical programs. Rank and salary will be commensurate with qualifications. Salary and start-up packages are competitive. Please submit curriculum vitae, brief statement of research and teaching goals, and names of three references to: **Ms. Carleen McNeely, Neuroscience Search Committee, Division of Basic Biomedical Sciences, University of South Dakota School of Medicine, Vermillion, SD 57069.** Review of applications will begin November 2, 2001, and continue until the position is filled. *USD is an Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL POSITION Department of Pediatrics and Pathology Human Monoclonal Antibodies Case Western Reserve University

The Department of Pediatrics and Pathology at Case Western Reserve University and Rainbow Babies and Children's Hospital seek an experienced **POSTDOCTORAL FELLOW** to make and characterize human monoclonal antibodies from human Ig-reconstituted transgenic mice. The research will focus on the development and characterization of antibodies against gram-negative bacterial pathogens and on the antibody structure and isotype best associated with antibacterial function. Send curriculum vitae and three references to: **Dr. John Schreiber, Department of Pediatrics and Pathology, Case Western Reserve University, Division of Infectious Diseases, Rainbow Babies and Children's Hospital, 11100 Euclid Avenue, Cleveland, OH 44106.** E-mail: [jrs3@po.cwru.edu](mailto:jrs3@po.cwru.edu). *CWRU is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### UNIVERSITY OF WISCONSIN MADISON

The Department of Psychiatry at the University of Wisconsin—Madison is recruiting for a Developmental/Behavioral Neuroscientist. A **TENURE-TRACK SCIENTIST** is sought to develop an independent research program that will interact with the Department's HealthEmotions Research Institute in the study of emotion, mind/body interaction, and early developmental impacts of stress modeled both *in vitro* and with animal (including primate) models. The focus of the work will be to investigate mechanisms underlying the development of psychopathology and/or strategies to prevent the manifestation of emotional illness. Minimum qualifications include a Ph.D. or M.D./Ph.D. in a relevant discipline with three years of demonstrated research experience and a letter to secure extramural funding. Please send a letter of interest along with your curriculum vitae to: **Dr. Ned Kalin, UW Department of Psychiatry, 6001 Research Park Boulevard, Madison, WI 53719.** The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer. Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

### TENURE-TRACK POSITION COMPUTATIONAL NEUROSCIENCE

Wellesley College, a preeminent liberal arts college for women with a long tradition of excellence in the sciences, has a new tenure-track position available to teach in the expanding Neuroscience program. The successful candidate will have teaching responsibilities in a home department (Biological Sciences, Chemistry, Computer Science, or Physics) as well as in the Neuroscience program. The teaching load would include courses at the introductory, intermediate, and advanced undergraduate levels. The successful candidate will be expected to develop a strong research program in computational neuroscience that involves undergraduates. Qualifications include a Ph.D. in computational neuroscience or a related area. Postdoctoral training is preferred. Interested individuals should send curriculum vitae, statement of research and teaching interests, and three letters of recommendation to: **Dr. Barbara S. Beltz, Chair, Neuroscience Search Committee, Wellesley College, Wellesley, MA 02481.** Review of applications will begin December 1, 2001. *Wellesley College is an Equal Opportunity/Affirmative Action Educational Institution and Employer; successful candidates must be able to work effectively in a culturally diverse environment. Applications from women, minorities, veterans, and candidates with disabilities are encouraged.*

Hanover College seeks **BOTANIST**. Tenure-track, rank open; begins August 2002. Ph.D. preferred; ABD considered. Teach introductory biology and possibly field botany, plant systematics, plant physiology, or conservation biology; supervise student research. Send application letter including statements of teaching and research philosophy, curriculum vitae, transcripts, and three letters of recommendation to: **Dr. Jeff Hughes, Chair, Botany Search, c/o Chris Wilcox, Hanover College, P.O. Box 108, Hanover, IN 47243-0108.** Review of applications begins November 1, 2001. For details, see website: <http://www.hanover.edu/biology/botjob.html>. *Equal Opportunity Employer. Women and minorities especially encouraged to apply.*

**POSTDOCTORAL POSITION** is available to study molecular pathways involved in breast cancer initiation and progression. Strong background in molecular biology and cancer genetics is required. Please send letter of interest, curriculum vitae, and three references to: **Kornelia Polyak, M.D., Ph.D., Assistant Professor of Medicine, Dana-Farber Cancer Institute, 44 Binney Street, D740C, Boston, MA 02115.** E-mail: [kornelia\\_polyak@dfci.harvard.edu](mailto:kornelia_polyak@dfci.harvard.edu). *Equal Opportunity Employer.*

## POSITIONS OPEN

### BIOORGANIC CHEMISTRY Dartmouth College

Applications are invited for a faculty position at the **ASSISTANT PROFESSOR** level starting July of 2002. The Chemistry Department seeks an individual who will establish a nationally recognized research program in organic chemistry at Dartmouth and who will excel at teaching in our undergraduate and Ph.D. curriculum. The Department has underway a major initiative in the area of structural biology, and preference will be given to individuals who conduct organic synthesis research that will contribute to this initiative. Candidates will be expected to be able to teach introductory and advanced courses in organic chemistry as well as graduate courses in their area of research. Applicants should submit curriculum vitae, a description of their research plans, and a brief statement about their teaching interests. Applicants should also arrange to have three letters of recommendation sent on their behalf. All inquiries and applications will be treated confidentially. Application materials should be sent to: **Chair, Organic Chemist Search Committee, Department of Chemistry, 6128 Burke Laboratory, Dartmouth College, Hanover, NH 03755-3564.** The Committee will consider completed applications beginning on November 1, 2001. *Dartmouth College is an Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL POSITION (Extended)

College of Veterinary Medicine, Mississippi State University, has a Postdoctoral position to investigate the genetic basis for differential virulence factor expression in virulent and avirulent isolates of *Listeria monocytogenes*. The successful applicant will use molecular techniques to characterize virulence gene regulation and pathogenesis. The opportunity also exists to explore other areas of interest related to this project. A Ph.D. in microbiology or molecular biology is required. Competitive salary. Position available immediately. Applications will be accepted until the position is filled. Send cover letter, curriculum vitae, and list of three references to: **Ms. Barbara Rhoades, Administrative Officer, College of Veterinary Medicine, P.O. Box 6100, Mississippi State, MS 39762-6100.** For more information, contact: **Dr. Jerald Ainsworth; Telephone: 662-325-1205; e-mail: [ainsworth@cvm.msstate.edu](mailto:ainsworth@cvm.msstate.edu).** *MSU is an Affirmative Action/Equal Employment Opportunity Employer.*

The Department of Critical Care Medicine at the University of Pittsburgh seeks applicants to perform clinical research on community-acquired pneumonia. **FACS CORE FACILITY MANAGER:** Incumbent will maintain and operate BD FACS Vantage fluorescence-activated cell sorter and stain and analyze blood cells for surface markers. This position requires two years of flow cytometry experience. Individuals with cell sorting experience preferred. **IMMUNOASSAY LABORATORY MANAGER:** Incumbent will design and perform immunoassays to measure human plasma proteins with subsequent data analysis. For both positions, a Master's degree is preferred or Bachelor's with commensurate experience. Computer skills plus excellent verbal and written communication skills required. Ability to work and learn independently is essential. Salary and benefits proportionate to candidate's qualifications. Please e-mail or FAX cover letter, résumé, and contact information for three references to: **Dr. Russell Delude; e-mail: [deluder@anes.upmc.edu](mailto:deluder@anes.upmc.edu); FAX: 412-648-4977.**

**RESEARCH ASSOCIATE POSITION** is available immediately at the Molecular and Cellular Cardiology division. Candidates should have skills and experience in patch clamp techniques applied to cardiomyocytes. Knowledge of PKC signaling is desired. Salary commensurate with experience. Please send curriculum vitae and three references to: **Dr. M. Boutjdir, Research and Development Office (151) V.A. Medical Center, Brooklyn, NY 11209.** FAX: 718-630-3796; e-mail: [boutjdir@sprynet.com](mailto:boutjdir@sprynet.com).



# UCDAVIS

## ASSISTANT PROFESSOR Aqueous Chemistry

Hydrology Program,  
Dept. of Land, Air, and Water Resources  
University of California, Davis

A tenure-track position is available for an Assistant Professor and Assistant Aqueous Chemist in the Agricultural Experiment Station. This is an academic year appointment; 11-month term employment will be offered and continued based on academic personnel review.

We are especially interested in candidates with strong credentials for creating an internationally recognized and independent research program in aqueous chemistry/geochemistry. The candidate must be capable of addressing watershed and water quality issues across broad scales of time and space with particular attention to interfaces between chemically distinct environments. The appointee will interact with multi-disciplinary research teams and is expected to teach, advise, and supervise undergraduate and graduate students, and to participate in outreach programs.

For application and inquiries, visit our website <http://LAWR.ucdavis.edu>, or contact Dr. Thomas Harter, Search Committee Chair, Hydrology Program, Dept. of Land, Air and Water Resources, University of California, Davis, CA 95616-8628. Ph: (530) 752-1130. E-mail: [searchwq@ucdavis.edu](mailto:searchwq@ucdavis.edu).

## ASST./ASSOC. PROFESSOR Environmental Chemistry

Department of Environmental Toxicology  
University of California, Davis

A tenure-track position is available for an Assistant/Associate Professor and Assistant/Associate Environmental Chemist in the Agricultural Experiment Station. This is an academic year appointment; 11-month term employment will be offered and continued based on academic personnel review.

We are especially interested in individuals who have, or will establish, a strong and innovative research program in chemistry as it relates to the environment. Areas of interest could include sources, transport, and/or fate of organic toxicants in water, soil, air and/or biota. The successful applicant is expected to have or to develop an independent, internationally recognized and well-funded research program, to teach, train, and supervise undergraduate and graduate students and to collaborate with established programs within the University. Applicants at the Associate level should have demonstrated excellence in research and teaching.

For application and inquiries, visit: <http://EToxEnvChem.ucdavis.edu> or contact Dr. Ronald Tjeerdema, Chair, Search Committee, Environmental Toxicology Dept. University of California, Davis, CA 95616-8588. Phone (530) 754-5192. [EnvChem@envtox.ucdavis.edu](mailto:EnvChem@envtox.ucdavis.edu).

These positions remain open until filled. To ensure consideration applications should be postmarked by November 30, 2001. The University of California, Davis, is an affirmative action/equal opportunity employer.

## Max-Planck-Institute of Colloids and Interfaces Golm (Section Interfaces)



### Two PhD-positions available:

1. Investigation of Polyelectrolyte Shell Adhesion on Solid Substrates by Means of Optical Microscopy Techniques
2. Preparation of Receptor-functionalized Polyelectrolyte Shells and Investigation of their Specific Interactions

Candidates should have a strong interest in problems of soft matter physics, in particular in polymer physics and physics of self-organized systems. For 1. experience with modern optical microscopy techniques is desirable, for 2. knowledge of physico-chemical preparation methods should be present. Candidates should be fluent in English, enjoy teamwork and possess a master degree or equivalent in physics or physical-chemistry.

The MPI near Berlin offers state-of-the-art equipment and an international working atmosphere. The field of polyelectrolyte shells is currently strongly developing and combines interesting fundamental research with a high potential for applications in drug delivery and related fields. Salary is according to BAT IIa/2.

For more information contact us per  
email: [andreas.fery@mpikg-golm.mpg.de](mailto:andreas.fery@mpikg-golm.mpg.de)  
or telephone: ++49 331 567-9204



MAX-PLANCK-GESellschaft

NPS Pharmaceuticals, Inc. is pleased to announce several opportunities in their Salt Lake City, Utah, location. NPS is a public pharmaceutical company focused on the development of novel therapeutics for the treatment of hyperparathyroidism, osteoporosis, stroke, pain and other debilitating diseases and disorders.

### RESEARCH ASSOCIATES, CHEMISTRY

Working on a team comprised of chemists, pharmacologists and molecular biologists, you will participate in the design and synthesis of novel therapeutic agents. Requires a related B.S. degree and 4 years' pharmaceutical experience or an M.S. and 2 years' experience, and excellent written/verbal communication and team skills.

### CLINICAL RESEARCH MANAGER

You will assist in the conduct of clinical research projects; evaluate and select consultants and organizations to conduct research activities; review and negotiate proposals; oversee the execution of all project phases; and review and edit summary reports and protocols. Requires a related B.S. degree and 5-8 years' relevant experience or an M.S. and 2-5 years' experience.

### DRUG METABOLISM SCIENTIST

You will conduct an *in vitro* program seeking to predict the human metabolic and pharmacokinetic properties of new chemical entities, automate and maintain *in vitro* assays, and develop/conduct bioanalytical methods for drug concentration determination. Requires a Ph.D. in Pharmacokinetics, Pharmacology or Toxicology; 2-5 years' post-doctoral experience in *in vitro* metabolism, using liver microsomes and hepatocytes; and direct experience in the quantitation of analytes in biological matrices (LC/MS a plus).

### DIRECTOR, DRUG SAFETY ASSESSMENT

You will oversee the preclinical safety assessment program; design and coordinate toxicology strategies, protocols and plans; design, implement and manage toxicity studies conducted under GLP guidelines; select and monitor CROs; evaluate data and write reports of findings; and directly interact with regulatory agencies and internal project teams. Requires a Ph.D. in Toxicology (DVM a plus), 7-10 years' experience in pharmaceutical toxicology, a background working with the FDA and drug regulatory processes, and superior writing and team skills.

Benefits offered include stock option grants, participation in employee stock purchase plan, full medical and dental benefits beginning on the first day of employment, subsidized childcare, as well as a 401(k) and flexible benefits.

Please send resume to:

**NPS Pharmaceuticals**  
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E-mail: [Hr@npsp.com](mailto:Hr@npsp.com)



NPS Pharmaceuticals is an equal opportunity employer.

## POSITIONS OPEN

The Naval Submarine Medical Research Laboratory (NSMRL), Groton, Connecticut, is seeking applicants for the position of **TECHNICAL DIRECTOR**. NSMRL's scientific emphasis includes submarine medicine, hyperbaric diving, sensory psychology (primarily audition and vision), personnel selection, occupational health (submarine and diving related), hearing conservation, diving bioeffects, information processing and display, and submarine escape and rescue. NSMRL is an applied science laboratory whose main interest is to enhance the capability and performance of sailors and marines.

The duties of the Technical Director (TD) include marketing of the NSMRL science; preparation and presentation of briefings; developing ties with sponsors; being an advocate for the laboratory; discovering new business opportunities; managing the current programs from a budget and accounting viewpoint; assigning appropriate scientific and technical resources to a project to ensure timely completion; managing and arbitrating conflict; team building; and tracking Broad Agency announcements, preproposals, and proposals for timely submission. The TD will report to the Commanding Officer and will have the appropriate authority and responsibility to lead the scientific staff to produce high-quality, timely research. The applicant must have a Ph.D. in a biological science or at least a Master's degree in an engineering discipline. The applicant must be able to demonstrate a high level of performance including successful grant writing and publications in peer-reviewed scientific journals. Additionally, he/she should be able to demonstrate the ability to work in a government setting (U. S. military/DOD) and develop sponsor connections. Travel is a requirement.

Current research programs and general information describing NSMRL can be viewed at **website: <http://www.nhrc.navy.mil/nsmrl>**. Candidates are encouraged to send their résumé, salary history, and references to **e-mail: [krwalter@earthlink.net](mailto:krwalter@earthlink.net)**. The United States Navy is an Equal Opportunity/Affirmative Action Employer. Candidates must be U. S. citizens and eligible to obtain a security clearance.

**WILDLIFE ECOLOGIST:** a 12-month, tenure-track faculty position in the Department of Zoology; 25% assigned to teaching and 75% assigned to research in the Cooperative Wildlife Research Laboratory. **ASSISTANT/ASSOCIATE PROFESSOR** with research capabilities that complement existing staff expertise. For appointment at the Associate Professor level, applicants must provide evidence of an established research record and the equivalent of six years of teaching experience at the university level. If the successful applicant is eligible for appointment at the Associate Professor level and professional interest and experience warrant, concurrent consideration may be given to appointment as Assistant Director of the Laboratory. Qualifications are (1) Ph.D. in wildlife science biology, zoology, or related natural resource field at the time of appointment; (2) demonstrated success or evidence of strong potential to obtain external funding to support research specialization and graduate students; and (3) publication record, scholarly activities, and teaching skills commensurate with experience. Preference will be given to applicants with a record of successful grantsmanship and research productivity. Also, preference will be given to candidates with expertise in applied statistics and spatial analysis. Detailed position description and other application information sent upon request. Closing date for application is 15 January 2002 or until filled. Preferred starting date is 1 July 2002. To apply, send a cover letter highlighting specific qualifications for the position described and a statement of research and teaching interests and capabilities; curriculum vitae; reprints of representative papers and grants; all undergraduate and graduate transcripts; and three letters of recommendation plus names, addresses, and telephone numbers of two additional persons to: **Dr. Alan Woolf, Director, Cooperative Wildlife Research Laboratory, Southern Illinois University at Carbondale, Carbondale, IL 62901-6504. Telephone: 618-536-7766. SIUC is an Equal Opportunity/Affirmative Action Employer.**

## POSITIONS OPEN

### ASSISTANT DIRECTOR MULTIINSTITUTIONAL RESEARCH

The Center for Environmental Research and Conservation (CERC), a consortium of five scientific institutions (Columbia University, where it is based; American Museum of Natural History; The New York Botanical Garden; Wildlife Conservation Society; and Wildlife Trust), seeks an Assistant Director to report to its Executive Director. Responsibilities: work with CERC Scientists to define major research themes; develop large, multidisciplinary applied research projects; write up to three large (greater than \$1.5 million) proposals per year in coordination with key Scientists and submit them to major foundations/national funding agencies. Limited teaching opportunities possible.

Ph.D. in a natural science discipline required; three to five years of research experience in multidisciplinary research projects or biodiversity conservation programs preferred including successful track record of grantsmanship. Must have strong interest in multi-institutional coalition building. Salary commensurate with experience. Send curriculum vitae and cover letter by **e-mail: [stj11@columbia.edu](mailto:stj11@columbia.edu)** or mail to: **Assistant Director Search Committee, CERC, Columbia University, MC 5557, 1200 Amsterdam Avenue, New York, NY 10027. Columbia University is an Affirmative Action/Equal Opportunity Employer.**

### GENETICIST

The Department of Biological Sciences, Goucher College, has a tenure-track opening at the **ASSISTANT PROFESSOR** level for a broadly trained Geneticist beginning September 2002. Candidates must possess a Ph.D. and a commitment to teaching and research at an undergraduate institution. Postdoctoral and teaching experience is preferred. Responsibilities include teaching intermediate and advanced courses in genetics, participation in the core curriculum at the freshman and sophomore level, and developing an externally funded research program that includes undergraduates. Information regarding the College and Department can be accessed at **website: <http://www.goucher.edu>**. Applicants should send curriculum vitae, summary of teaching philosophy and research interests, and three letters of recommendation to: **Dr. William S. Johnson, Department of Biological Sciences, Goucher College, 1021 Dulaney Valley Road, Baltimore, MD 21204-2794. We will begin reviewing applications on December 1, 2001, and will continue until the position is filled. Goucher College is an Equal Opportunity Employer.**

### POSTDOCTORAL POSITION Case Western Reserve University School of Medicine Department of Nutrition

A position is available in the laboratory of **Dr. Duna Massillon (website: <http://www.cwru.edu/med/nutrition/massillon.html>)** to study the nutrient regulation of glucose-6-phosphatase gene expression. Specifically, the project focuses on glucose signaling from the plasma membrane to the nucleus and the transcription factors involved in glucose regulation of glucose-6-Pase gene expression. The ideal candidate is expected to be highly experienced in subcloning. In addition, the candidate should be experienced in PCR, RNA preparation, gel retardation, footprinting, and promoter analysis. Send letter of interest, curriculum vitae, and the names of three references to **e-mail: [dxm71@po.cwru.edu](mailto:dxm71@po.cwru.edu)**. Case Western Reserve University is an Equal Opportunity Employer.

**RESEARCH ASSOCIATE POSITION** at the University of Washington available immediately for NIH-funded research in molecular mechanisms of nucleoside transport. Applicants must have a Ph.D. and experience in immunohistochemistry, *in situ* hybridization, and standard molecular biology techniques. Send curriculum vitae and three letters of reference to: **Dr. Unadkat, Department of Pharmaceutics, Box 357610, University of Washington, Seattle, WA 98195. E-mail: [pceut@u.washington.edu](mailto:pceut@u.washington.edu)**.

## POSITIONS OPEN

### UNIVERSITY OF ILLINOIS AT SPRINGFIELD

Cell Biologist. **ASSISTANT PROFESSOR**, tenure track; fall 2002. Ph.D. required. Teach undergraduate and advanced courses in cell biology and specialty area and conduct research with undergraduate and graduate students. Strong commitment to teaching. College teaching experience desirable. Individuals specializing in eukaryotic cell biology with preference for protistan systems are especially encouraged to apply.

Located in the state capital, the University of Illinois at Springfield (UIS) is one of three campuses of the University of Illinois. The UIS campus serves approximately 4,000 students in 19 graduate and 20 undergraduate programs. The academic curriculum of the campus emphasizes a strong liberal arts core, an array of professional programs, extensive opportunities in experiential education, and a broad engagement in public affairs issues of the day. The campus offers many small classes, substantial student-faculty interaction, and a technology-enhanced learning environment. Its diverse student body includes traditional, nontraditional, and international students. Its faculty are committed teachers, active scholars, and professionals in service to society.

Application review begins October 22, 2001. Submit statement of teaching interests and research plans, curriculum vitae, transcripts, and three letters of reference to: **Cell Biology Search Committee, Biology Program, HSB 223, University of Illinois at Springfield, P.O. Box 19243, Springfield, IL 62794-9243**. For further information on the position, UIS, and the Biology Program, contact: **Dr. Gary L. Butler; e-mail: [butler.gary@uis.edu](mailto:butler.gary@uis.edu)**. University of Illinois at Springfield is an Affirmative Action/Equal Opportunity Employer. Women, people with disabilities, minorities, and veterans are encouraged to apply.

The U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS) Plant Genetics Research Unit, Columbia, Missouri, is seeking a **POSTDOCTORAL RESEARCH GENETICIST** (plants), GS-11. The incumbent uses functional genomic approaches to understand the molecular bases of quantitative trait loci (QTL) controlling agronomic traits in maize. The system of initial study is the synthesis of maysin and related chemical compounds and their role in resistance of the corn earworm in maize. Recent Ph.D. in molecular biology and/or genetics is required. Skill in a wide range of recombinant DNA techniques from the development and screening of cDNA libraries, DNA sequencing, sequence data analysis, and determining mRNA transcript levels; knowledge of bioinformatic approaches to gene identification; and data management and analyses. Knowledge of quantitative genetic approaches and the biochemistry of plant secondary metabolism will be helpful. U.S. citizenship is required unless the candidate is a citizen of a country that has a mutual defense treaty with United States. The salary range, which is commensurate with experience, is \$43,326 to \$56,322 per annum. Successful candidates will be employed under excepted appointment, usually up to two years in duration. Appointments of more than one year convey eligibility for health insurance and life insurance. Interested applicants should submit a letter of application, résumé, and curriculum vitae by e-mail or FAX: **573-884-7850** to: **Dr. Michael D. McMullen; e-mail: [mcmullenm@missouri.edu](mailto:mcmullenm@missouri.edu)**. USDA/ARS is an Equal Opportunity Provider and Employer.

**RESEARCH ASSOCIATE** to study role of allatropin and allatostatin in regulation of the corpora allata activity and juvenile hormone synthesis in mosquitoes. Ph.D. required. Send curriculum vitae to: **Dr. F. Noriega, Department of Biochemistry, University of Arizona, Tucson, AZ 85721-0088. E-mail: [fnoriega@email.arizona.edu](mailto:fnoriega@email.arizona.edu)**. Review begins October 1, 2001, and continues until filled. The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer; Minorities/Women/Disabled/Veterans.

## ChromaVision

ChromaVision Medical Systems, Inc., located in San Juan Capistrano, is the leader in cellular imaging technology and manufacturer of the Automated Cellular Imaging System (ACIS™). We are dedicated to improving the quality of patient care by rapidly developing and implementing cellular imaging technology to provide the most timely and cost-effective information for use by medical and laboratory professionals.

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- Product Manager
- Field Applications Specialist
- Additional positions may be open

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ChromaVision offers a highly competitive compensation and benefits package including a 401(k) plan and incentive stock options. We enjoy a team-based approach to success in a business-casual work environment. For consideration, send resume and salary requirements to: ChromaVision Medical Systems, Inc., 33171 Paseo Cerveza, San Juan Capistrano, CA 92675; Fax: (949) 443-3372; E-mail: [EmpApp@chromavision.com](mailto:EmpApp@chromavision.com) EOE

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## DISTINGUISHED FELLOWSHIP

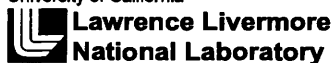
### Lawrence Livermore Postdoctoral Fellowship

The Lawrence Livermore National Laboratory (LLNL) has openings available under its Postdoctoral Fellowship Program. This is a highly desirable, prestigious position with ample resources and freedom to conduct cutting-edge research in the fields of the candidate's choice. Duration for the Fellowship is up to three years. Typically two openings are available each year. Fellowships are awarded only to candidates with exceptional talent, credentials, and a track record of research accomplishments.

Candidates will do original research in one or more aspects of science relevant to the mission and goals of LLNL which include: Physics, Computational Mathematics, Computer Science, Chemistry, Material Science, Engineering, Environmental Research, Atmospheric Science, Geological Sciences, Energy, Laser Science, and Biological Science. Successful candidates may participate in experimental or theoretical work at LLNL, and will have access to LLNL's extensive computing facilities, specialized laboratory facilities, and field equipment. A senior scientist will serve as a mentor to each of the Fellows. The candidates will receive full management and administrative support. The salary is \$6917/mo.

Please refer to our web page <http://www.llnl.gov/urp/LLNLPostDoc/LLNLPostDoc.htm> for eligibility requirements and application information. Please reference source code **AJSCA51DO**. The deadline for application is November 1, 2001. No applications will be accepted after this date. LLNL is operated by the University of California for the National Nuclear Security Administration/ Department of Energy. We are an Equal Opportunity Employer with a commitment to workforce diversity.

University of California



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## Faculty Position in Molecular Interactions

The Department of Pharmacology and Biological Chemistry invites applications for a tenure-track position focused on the study of molecular interactions. Of interest to share are individuals developing programs to study macromolecular interactions and assemblies within the context of cellular systems to address issues of spatial complexity at the cellular and sub-cellular levels. Research areas may include but are not limited to analysis of single molecule dynamics, visualization of signaling interactions and networks and functioning of cellular machinery. The primary criterion for selection will be the application of emerging imaging technologies to study issues of general biological significance. Although this search is primarily at the Assistant Professor level, we will consider appointments at the Associate Professor level. Applicants must have a demonstrated record of achievement during their doctoral and postdoctoral training. Competitive start-up packages to rapidly build programs of high excellence will be preferred.

Please send C.V., a two-page description of proposed research program, 3-5 publications and three letters of reference by December 15, 2001 to the: **Molecular Interactions Search Committee, c/o Ms. Renny Satz-Grecco, Administrator, Department of Pharmacology and Biological Chemistry, Box 1215, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029.** EOE.

## POSITIONS OPEN

### RESEARCH ASSOCIATE

To conduct directed and independent research in epithelial biology involving the cellular and molecular function of protein kinases and protein phosphatases in regulation of the epithelial tight junctions. This includes (1) using established methodology involving molecular and cellular techniques in the laboratory; (2) designing new methodology for site-directed mutagenesis of phosphorylation sites in tight junction proteins; (3) analyzing and publishing results in abstract and manuscript format; and (4) teaching laboratory technicians, graduate students, and postdoctoral fellows in cell culture and analytical and biochemical techniques. Requirements: Ph.D. in molecular and/or cellular biology and two years of postdoctoral training. Send curriculum vitae and the names of three references to: **Dr. R. K. Rao, Department of Physiology, University of Tennessee Health Science Center, 894 Union Avenue, Nash 426, Memphis, TN 38163. E-mail: rkrao@physiol.utmem.edu; FAX: 901-448-7126.** 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 Employer.

### POSTDOCTORAL Cellular and Molecular Immunology

Applications are invited to study T cell tolerance, autoimmunity, and regulation of gene expression in lymphocytes. Candidates should possess a Ph.D. and/or M.D. degree and experience in cellular immunology and/or molecular biology. Submit your curriculum vitae and the names of three references via mail, FAX, or e-mail to: **H. Zaghouni, University of Missouri, Department of Molecular Microbiology and Immunology, M616 Medical Sciences Building, Columbia, MO 65212. FAX: 573-882-4287; e-mail: zaghounih@health.missouri.edu.** To request ADA accommodations, please contact our ADA Coordinator; Telephone: 573-884-7278; e-mail: hensonl@missouri.edu.

The University of Missouri is an Affirmative Action/Equal Opportunity Employer. Women and members of traditionally underrepresented minorities are encouraged to apply.

Two POSTDOCTORAL POSITIONS are available in structural biology/protein biochemistry for candidates with Ph.D. in biochemistry or biophysics. One position requires strong background in crystallography and/or computational biology with experience or interest in protein purification, crystallization, structure determination, and molecular modeling. The other position requires strong molecular biology and protein biochemistry background with proven experience in cDNA cloning, protein expression, purification, and enzyme kinetics. Please send curriculum vitae with names and addresses of three references to: **Dr. M. Sundaramoorthy, The University of Kansas Medical Center, Department of Biochemistry and Molecular Biology, 3901 Rainbow Boulevard, Kansas City, KS 66160-7421. FAX: 913-588-7440; e-mail: msundar@kumc.edu.** An Equal Opportunity/Affirmative Action Employer.

### CAREER IN OPTOMETRY, OPTOMETRIC RESEARCH, OR TEACHING

The New England College of Optometry offers a unique program for those with a Doctorate in the sciences: biology, chemistry, physics, psychology, etc. Candidates have the opportunity to obtain the Doctor of Optometry (O.D.) degree in 27 months. The program begins annually in June. Employment opportunities exist in clinical practice, industry, optometric faculty positions, and research. Contact: **Admissions Office, Department S, 424 Beacon Street, Boston, MA 02115. Telephone: 1-800-824-5526; e-mail: admisso@ne-optometry.edu.** Additional information, see website: <http://www.ne-optometry.edu>. Application deadline: March 1, 2002.

## POSITIONS OPEN

### TEMPLE UNIVERSITY SCHOOL OF MEDICINE

POSTDOCTORAL POSITIONS are available immediately to study novel mechanisms of cross-talk among the opioid and chemokine receptors and other G protein-coupled receptors (GPCR) including those which serve as coreceptors of HIV-1. The studies involve the regulation of expression and function of critical GPCR and their ligands. Individuals will have the opportunity to carry out interdisciplinary research with a large and dynamic group of Immunologists, Molecular and Cell Biologists, and Neuropharmacologists using state-of-the-art technologies. Please send curriculum vitae and the names of three references to: **Dr. Thomas J. Rogers, Department of Microbiology and Immunology, Temple University School of Medicine, 2400 North Broad Street, Philadelphia, PA 19140. E-mail: rogerst@astro.temple.edu.** Temple University is an Equal Opportunity/Affirmative Action Employer and strongly encourages applications from women and minorities.

### POSTDOCTORAL POSITIONS Opioid Neuroscience

Positions are available immediately to study the function of opioid receptors in the mechanisms of opioid tolerance and drug addiction. Projects involve multidisciplinary investigations including cellular patch clamp studies, behavioral analysis, and molecular approaches. Prior patch clamp experience is desirable. Previous behavioral and molecular experience is preferable. Highly competitive salaries and benefits. Please send your curriculum vitae and reference information to: **Dr. Z. Z. Pan, Departments of Anesthesiology and Biochemistry and Molecular Biology, Box 110, University of Texas M.D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030. E-mail: zzpan@mdanderson.org.** Equal Employment Opportunity Employer; smoke-free environment. Women and minority candidates are encouraged to apply.

### POSTDOCTORAL POSITIONS Washington University Pain Center

Postdoctoral positions are available to study the spinal cord development (*Neuron* 31:59-73, 2001). The projects involve differential cloning of the spinal cord-specific genes and generation of conditional knockout mice. A strong background in neurobiology or molecular biology is required. For more information, see: website: <http://dbbs.wustl.edu/RIB/Chen.html>. Send curriculum vitae and letters of reference to e-mail: [chenz@morpheus.wustl.edu](mailto:chenz@morpheus.wustl.edu). **Dr. Zhou-Feng Chen, Department of Anesthesiology, Washington University School of Medicine Pain Center, 660 South Euclid Avenue, St. Louis, MO 63110 U.S.A. FAX: 314-362-8571.**

Two POSTDOCTORAL POSITIONS in systems neuroscience. NIH-funded projects to investigate somatosensory and visual thalamocortical relationships in awake rabbits using multi-electrode extracellular and intracellular methods. Strong electrophysiological and analytical skills are necessary. Send curriculum vitae and letters of reference to: **Harvey A. Swadlow, Department of Psychology, University of Connecticut (U-1020), Storrs, CT 06269.** The University of Connecticut strongly encourages applications from underrepresented groups including minorities, women, and people with disabilities.

POSTDOCTORAL POSITION available to study cellular mechanisms leading to diabetes-accelerated atherosclerosis. Experience in animal models (transgenics), vascular cell biology, and/or signal transduction studies is preferred. Candidates who can start in January 2002 and stay for a minimum of two years are encouraged to apply. Send curriculum vitae and names of three references to: **Karin Bornfeldt, Ph.D., Department of Pathology, University of Washington, Seattle, WA 98195. E-mail: bornkf@u.washington.edu.**

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH ASSOCIATE Computational Biology

The Center for Agricultural Bioinformatics, Agricultural Research Service (ARS), U.S. Department of Agriculture, in Ithaca, New York, is seeking two Postdoctoral Research Associates to participate in an integrated interdisciplinary program focused on elucidating regulatory mechanisms in a microbial plant pathogen, *Pseudomonas syringae*. Candidates are desired with skills in one or both of the following areas: (1) computational science (to develop parallel algorithms for data mining and simulation and analysis of large-scale network models of gene and protein expression) and (2) applied mathematics, physics, or engineering (to investigate deterministic and stochastic effects in complex regulatory systems). All projects involve interactions with laboratory and computational Scientists from ARS, Cornell University, Boyce Thompson Institute, and other institutions. To qualify, candidates must have a Ph.D. in an appropriate field such as bioinformatics, computational biology, physics, engineering, computer science, or mathematics. Appointments are for two years and include benefits. Salary is commensurate with experience (\$43,326 to \$56,322 per annum). Candidates must be U.S. citizens or be a citizen of an allied country. Please send inquiries to: **Dr. Samuel Cartinhour, e-mail: sc167@cornell.edu.** ARS is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

### POSTDOCTORAL POSITION Neuromuscular Genetics

NIH-funded Postdoctoral position in neuromuscular genetics available immediately to identify and characterize disease genes and pathophysiological mechanisms underlying various myotonic dystrophies and related progressive myotonic myopathies including DM1, DM2, and DM3. Methods include linkage analysis, gene and mutation identification, DNA microarray expression profiling and others, and protein-level functional assays. The position is initially for three years with the option to extend. Candidates should have Ph.D. or equivalent degree. Experience in molecular genetics required (in positional cloning highly desirable). Submit curriculum vitae, three references, and short description of research interests to: **Ralf Krahe, Ph.D., Human Cancer Genetics, 440 Medical Research Facility, Ohio State University, 420 West 12th Avenue, Columbus, OH 43210. E-mail: krahe-1@medctr.osu.edu.**

POSTDOCTORAL POSITIONS available immediately to participate in mapping receptors for neurotoxins and local anesthetics on wild-type and mutant voltage-gated sodium channels or in mapping the sodium channel permeation pathway at the cytoplasmic end. Preference will be given to applicants with research experience using molecular biology techniques and/or patch clamp device. Candidates should send curriculum vitae and a brief description of research interest to: **Dr. S-Y. Wang, Department of Biology, SUNY at Albany, 1400 Washington Avenue, Albany, NY 12222. E-mail: sywang@cnsunx.albany.edu** or to **Dr. G. K. Wang, Department of Anesthesia, Harvard Medical School/Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. E-mail: wang@zeus.bwh.harvard.edu.**

### POSTDOCTORAL POSITIONS

Two positions funded by the Cardiovascular Center of Excellence are available to study the signal transduction mechanisms related to the effect of nitric oxide and protein tyrosine phosphatases on migration, proliferation, and collagen synthesis by vascular smooth muscle cells. Our projects address basic science questions but also have relevance to clinical problems. Experience in the techniques of molecular biology is essential. Send curriculum vitae and the names of three references to: **Dr. Aviv Hassid, Department of Physiology, University of Tennessee, 894 Union Avenue, Memphis, TN 38163. E-mail: hassid@bellsouth.net. FAX: 901-448-7126.**

## GLOBAL OPPORTUNITIES

### The Hong Kong University of Science and Technology School of Science Tenure-Track Faculty Positions

Atmospheric, Marine and Coastal Environment (AMCE) Program is a new interdisciplinary and interdepartmental postgraduate program established under the School of Science. AMCE invites applications for the following faculty positions: (1) a joint appointment with Biology in the area of Marine Environmental Science with research interests in marine microbial ecology, ecotoxicology, marine ecosystem dynamics, or marine conservation and biodiversity; (2) an appointment in Chemistry in Analytical Chemistry with research interests in marine environmental chemistry; and (3) a joint appointment with Mathematics in Geophysical Fluid Dynamics with research interests in modeling the atmosphere/ocean and pollutant dispersion and a strong background in applied mathematics. Applicants must have a PhD degree, postdoctoral experience and the ability to establish a strong independent research program.

Starting ranks and salaries will be commensurate with qualifications and experience. Fringe benefits including medical/dental benefits and annual leave will be provided. Assistance in housing will also be provided where applicable. Initial appointment will normally be on a three-year contract. A gratuity will be payable upon successful completion of contract. Re-appointment will be subject to mutual agreement with possibility of tenure.

Applications should be sent with curriculum vitae, a short statement on research interests and teaching philosophy, and the names and complete addresses (including e-mail addresses) of three referees to: Recruitment Committee, AMCE, The Hong Kong University of Science and Technology, Clear Water Bay, Hong Kong, before November 30, 2001.

## ANNOUNCEMENTS

### THE ANGIOGENESIS RESOURCE CENTER

The Developmental Therapeutics Program (DTP, DCTD, NCI) has recently put into operation its Angiogenesis Resource Center. This effort was recommended by the Advisory Committee to the Director, NCI to facilitate research into the mechanisms of tumor angiogenesis and the development of drugs that target the essential tumor vasculature. The Center currently serves qualified investigators in the scientific community by providing human umbilical endothelial cells (HUVEC) and reference agents. Additionally, anti-angiogenesis testing is available without charge for pure natural products or synthetic compounds submitted by suppliers in universities, research institutes, government agencies, and pharmaceutical or biotechnology companies. For additional information on receiving any of these supplies and services, please visit our website at <http://dtp.nci.nih.gov> or contact the following individuals:

Mr. Richard F. Camalier  
Biological Testing Branch  
DTP, DCTD, NCI  
Fairview Center, Suite 205  
1003 West 7th Street  
Frederick, MD 21701-8527  
T: 301-846-5607  
F: 301-846-6183  
E: [camalier@mail.nih.gov](mailto:camalier@mail.nih.gov)

Dr. Ravi K. Varma  
Drug Synthesis and Chemistry  
Branch  
DTP, DCTD, NCI  
EPN, Room 831  
6310 Executive Blvd.  
Rockville, MD 20892  
T: 301-435-9159  
F: 301-480-4817  
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The pullout section will  
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fax ..... 202-289-6742  
e-mail ..... [kclark@aaas.org](mailto:kclark@aaas.org)

In Europe ..... Richard Walters  
telephone ..... +44 (0) 1223 326 500  
fax ..... +44 (0) 1223 326 532  
e-mail .... [rwalters@science-int.co.uk](mailto:rwalters@science-int.co.uk)

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## POSITIONS OPEN

**DEVELOPMENTAL BIOLOGIST:** Department of Biology, DePauw University. Tenure-track position to begin in the fall of 2002. The successful candidate should have a Ph.D. and will be expected to design and teach a course in developmental biology, teach introductory courses for both majors and non-majors, and develop a research program involving undergraduates. Preference will be given to individuals who can also teach in the areas of cell biology and either molecular biology or genetics. DePauw has an exceptional program for supporting its faculty including start-up funding and pretenure leaves for new faculty and funding for professional and curriculum development activities (see [website: http://www.depauw.edu/admin/acadaffairs/facdev.htm](http://www.depauw.edu/admin/acadaffairs/facdev.htm)). Candidates should submit a letter of application, curriculum vitae, three letters of recommendation, transcripts, a statement of teaching interests and philosophy, and a statement of research interests to: **Search Committee, Department of Biology, DePauw University, Greencastle, IN 46135**, which will begin reviewing application materials on December 15, 2001. For more information about the Department, visit [website: http://www.depauw.edu/acad/biology](http://www.depauw.edu/acad/biology). *DePauw University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and members of underrepresented groups.*

**POSTDOCTORAL POSITION** available to join a small laboratory focusing on the identification and characterization of genes involved in apoptosis and phagocytosis in *Drosophila* with an emphasis on the regulation of these processes during development. Send curriculum vitae and the names of three references to: **Kristin White, CBRC, Massachusetts General Hospital, Harvard Medical School, Charlestown, MA 02129**. E-mail: [kristin.white@cbrc2.mgh.harvard.edu](mailto:kristin.white@cbrc2.mgh.harvard.edu).

*The MGH/Harvard Cutaneous Biology Research Center is a committed Equal Opportunity/Affirmative Action Employer. Minorities, women, handicapped, and veterans are encouraged to apply.*

**POSTDOCTORAL POSITIONS** immediately available in the laboratories of **Dr. Paul Dent** and **Dr. Steven Grant**. Projects available for study include signal transduction, cell cycle, and survival control in primary hepatocytes; roles of radiation and chemotherapeutic drug-induced MAP kinase signaling in cell cycle, and survival regulation in hematopoietic and carcinoma cells. Applicants must have a strong foundation in molecular and cellular biology techniques. Send applications to: **Dr. P. Dent or Dr. S. Grant, Massey Cancer Center, Box 980058, Virginia Commonwealth University, Richmond, VA 23298**. E-mail: [pdent@hsc.vcu.edu](mailto:pdent@hsc.vcu.edu) or [stgrant@hsc.vcu.edu](mailto:stgrant@hsc.vcu.edu).

**POSTDOCTORAL POSITION** to investigate mechanisms of axon guidance and plasticity in mammalian brain development. Signaling by adhesion molecules, ephrins, and neurotrophins in mental retardation and schizophrenia will be studied in knock-out mice and by molecular/biochemical analyses including DNA microarrays. Visit our [website: http://www.unc.edu/~srclab/](http://www.unc.edu/~srclab/). Contact: **Patricia F. Maness, Ph.D., Professor, Department of Biochemistry, CB Number 7260, University of North Carolina School of Medicine, Chapel Hill, NC 27599**. E-mail: [srclab@med.unc.edu](mailto:srclab@med.unc.edu).

**POSTDOCTORAL POSITIONS** are open for the study of cardiac function via transgenesis and viral vector delivery systems (see *PNAS* 96:11982, 1999; *Nature Medicine*, December 1999; *JCI* 107, 2001). Send summary of research/career goals, curriculum vitae, and names of three references to: **Dr. Joseph M. Metzger, Department of Physiology, 7730 Medical Science II, University of Michigan, 1301 East Catherine Street, Ann Arbor, MI 48109-0622**. *University of Michigan is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS Donald Danforth Plant Science Center

Postdoctoral positions are anticipated in a variety of scientific disciplines including biochemistry, computational and structural biology, cell biology, virology, immunology, molecular pathology and physiology, and genetics. Successful candidates will have evidence of publication and command of the English language. The Danforth Center is a not-for-profit, independent center for research. For descriptions of openings and information on the Danforth Center, see [website: http://www.danforthcenter.org](http://www.danforthcenter.org).

*The Donald Danforth Plant Science Center is an Equal Opportunity/Affirmative Action Employer and encourages applications from underrepresented groups including minorities, women, and people with disabilities.*

### POSTDOCTORAL POSITIONS MOLECULAR VIROLOGY

Two Postdoctoral positions are available in NIH-supported projects to study the mechanisms of replication and host cell-virus interactions of coronavirus and hepatitis C virus. Experience in molecular and cell biology is required. Send curriculum vitae and the names of three references to: **Dr. Shinji Makino, The University of Texas Medical Branch at Galveston, 301 University Boulevard, Galveston, TX 77555-1019**. E-mail: [shmakin@utmb.edu](mailto:shmakin@utmb.edu); FAX: 409-772-5065. See further information at [website: http://microbiology@utmb.edu](http://microbiology@utmb.edu). *UTMB is an Affirmative Action/Equal Opportunity Employer; Minority/Female/Disabled/Veteran. UTMB hires only persons authorized to work in the United States.*

### POSTDOCTORAL POSITIONS The Scripps Research Institute

Two Postdoctoral positions are available to study the role of immunity in atherosclerosis. One position involves studying the inflammatory status and the other explores migration of myeloid cells in atherosclerosis. Experience in immunology, cell biology, and/or physiology desirable. Send curriculum vitae along with research experience and names and contact points of three references to: **William A. Boisvert, Ph.D., Department of Immunology, IMM-17, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037**. E-mail: [boisvert@scripps.edu](mailto:boisvert@scripps.edu). *TSRI is an Affirmative Action/Equal Opportunity Employer.*

**RECOMBINANT ANTIBODY MOLECULAR BIOLOGIST.** InPro Biotechnology is seeking an outstanding Scientist with at least five years of experience in phage display technology for the isolation and production of recombinant Fabs. Broad experience in producing phage display libraries and characterizing the Fabs is essential. Candidates must have a Ph.D. or M.D. degree. InPro Biotechnology is a proteomics company with a focus on prion diagnostics, disinfectants, and therapeutics and is located in South San Francisco, California. Send curriculum vitae and a clear description of relevant experience by e-mail: [Greta.Boesel@inprobiotech.com](mailto:Greta.Boesel@inprobiotech.com) or by mail to: **Paula Brown, InPro Biotechnology, 600 Hansen Way, Palo Alto, CA 94304**.

### POSTDOCTORAL POSITION

Fred Hutchinson Cancer Research Center currently seeking Postdoctoral individual with Ph.D. in molecular or cellular biology and interest in a career in bioinformatics. Demonstrated background in mathematics, statistics, or computer science. Computer programming skills preferred. Send curriculum vitae with three references to: **Trina Brown, Fred Hutchinson Cancer Research Center, 1100 Fairview Avenue North, MW-805, Seattle, WA 98109**. E-mail: [tabrown@fhcrc.org](mailto:tabrown@fhcrc.org); FAX: 206-667-2437.

## POSITIONS OPEN

### POSTDOCTORAL POSITION PROTEIN CRYSTALLOGRAPHY

A Postdoctoral position is available immediately in the Bioscience Division at Los Alamos National Laboratory to study the crystal structures of proteins and nucleic acids using neutron diffraction. Experience and expertise in crystallization and X-ray protein or nucleic acid crystallography are required. The successful candidate will carry out experiments on the new state-of-the-art neutron Protein Crystallography Station at Los Alamos, New Mexico. For further technical information or inquiries, contact: **Paul Langan**; e-mail: [langan\\_paul@lanl.gov](mailto:langan_paul@lanl.gov); Telephone: 505-665-8125.

A Ph.D. completed within the past three years or soon to be completed is required. Further details about the postdoctoral program may be found at [website: http://www.hr.lanl.gov/postdoc/](http://www.hr.lanl.gov/postdoc/). For consideration, submit a résumé and publications list along with a cover letter outlining current research interests to: e-mail: [postdoc-jobs@lanl.gov](mailto:postdoc-jobs@lanl.gov) (reference SCIENCE-PD017816) or submit two copies to: **Postdoctoral Program Office, SCIENCE-PD017816, MS-P290, Los Alamos National Laboratory, Los Alamos, NM 87545**.

Los Alamos National Laboratory is operated by the University of California for the U.S. Department of Energy. *Affirmative Action/Equal Opportunity Employer.*

### POSTDOCTORAL POSITION HARVARD MEDICAL SCHOOL

Adhesion molecules in vascular biology. We work mostly with mice, combining genetic approaches with disease models and intravital microscopy. Active projects: mechanisms of platelet aggregation and thrombus formation, inflammation and leukocyte function, and role of apoE in blood brain barrier. Prefer candidates with experience in molecular biology and working with mice. Publications in international journals are a prerequisite. Curriculum vitae to: **Denisa D. Wagner, Ph.D., Professor of Pathology, Harvard Medical School, The Center for Blood Research, 800 Huntington Avenue, Boston, MA 02115**. FAX: 1-617-278-3368; e-mail: [dw1@cbcr.med.harvard.edu](mailto:dw1@cbcr.med.harvard.edu).

### POSTDOCTORAL POSITION Yale University School of Medicine Developmental Endocrinology

A Postdoctoral position is available immediately at Yale University School of Medicine to study the regulation of Hox gene expression and the role of Hox genes in the reproductive tract. A Ph.D. in molecular biology or developmental biology is essential. Please send curriculum vitae and names of three references to: **Dr. Hugh Taylor, Yale University School of Medicine, Division of Reproductive Endocrinology, 333 Cedar Street, New Haven, CT 06520**. E-mail: [hugh.taylor@yale.edu](mailto:hugh.taylor@yale.edu).

**POSTDOCTORAL POSITION** available to study the genetics and molecular biology of aging (FASEB J. 14:2135; *Trends Genet.* 16:506; *EMBO J.* 20:2655). Recent Ph.D.s with experience in molecular techniques are encouraged to apply. Send complete curriculum vitae and the names and contact information (including 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: [sjazwi@lsuhsc.edu](mailto:sjazwi@lsuhsc.edu). *LSUHSC is an Affirmative Action/Equal Opportunity Employer.*

### POSTDOCTORAL POSITIONS

Immediately available to study signaling pathways by tumor necrosis factor family members and other cytokines. Candidates with experience in molecular cell biology, immunology, or transgenic technology are encouraged to send résumés to: **Dr. Hong-Bing Shu, Department of Immunology, National Jewish Medical and Research Center, Denver, CO 80206**. FAX: 303-398-1396; e-mail: [shuh@njc.org](mailto:shuh@njc.org).





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*National or resident (not less than 5 years) of an EU Member State or Associate State.*

##### Age

*The applicant must be 35 or less at the time of application to the site*

##### Qualifications

*Holder of a degree in life sciences, or at least 3 years of appropriate university studies and actively enrolled as a Ph.D.-student at a university in a EU Member State or Associated State.*

##### Mobility

*The applicant cannot choose the EUROLIFE university in his/her own country.*

#### Financial support:

The trainee will receive a stipend of € 1.200.-/month and € 100.-/month for travel, provided by the EU's 5th framework programme (Marie Curie Fellowship programme).

#### EUROLIFE Universities network:

- The University of Edinburgh, Edinburgh, UK, EUROLIFE co-ordinator
- Karolinska Institutet, Stockholm, Sweden, EUROGENDIS co-ordinator
- Trinity College Dublin, Ireland
- Georg August University, Göttingen, Germany
- University of Leiden, The Netherlands
- The Universities I & II of Montpellier, France
- Leopold Franzens University of Innsbruck, Austria



## CONFERENCES

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Introduction by John Mendelsohn

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Alan D'Andrea	Wai-Ki Hong	Christos N. Papandreou
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Alfred L. Goldberg	Tetsu Kamitani	Neal Rosen
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The National Institute of Allergy and Infectious Diseases (NIAID) and National Cancer Institute (NCI) invite the submission of proposals to:

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

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2. Microbicide-based prevention strategies for HIV.

IIP does not fund grants. Successful applicants instead will receive products or information generated by NIH contractors to aid the applicant's development of novel therapeutics toward clinical trial.

- The next deadline for receipt of applications is **December 1, 2001**; prior to that date (no later than **November 1**) a Letter of Interest 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 e-mail at [iip@dtpax2.ncifcrf.gov](mailto:iip@dtpax2.ncifcrf.gov).

## POSITIONS OPEN

### POSTDOCTORAL AND TECHNICAL POSITIONS P450 Biochemistry, Genomics, and Bioinformatics, University of Illinois

Six Postdoctoral Fellow and three full-time/part-time technical positions are available at the University of Illinois at Urbana-Champaign on an NSF 2010 functional genomics project analyzing the expression patterns and substrate preferences of the 270-member *Arabidopsis* P450 gene family. One genomics Postdoctoral will concentrate on microarray analysis of P450 and networked pathway genes in response to chemical and environmental stresses. Other Postdoctorals will concentrate on expression of P450 cDNA clones in yeast and baculovirus systems as well as on incorporation of P450s into a membrane scaffolding system suitable for high-throughput screening of P450 substrate reactivities. One bioinformatics Postdoctoral will concentrate on construction of a Web-based P450 expression database including EST, microarray and substrate preference data, and integrated visualization of these data types. Postdoctoral positions require a Ph.D. degree in biochemistry, molecular biology, plant biology, functional genomics, or bioinformatics and are renewable for up to four years. Full-time/part-time technical positions require an M.S. or research experience in biochemistry/molecular biology. Principal Investigators (PIs) and co-PIs on this project include: **M. A. Schuler, S. G. Sligar, M. Band, L. Liu, and H. J. Bohnert**. Send current curriculum vitae, names and addresses of three references, and a short summary of professional goals to: **Ms. Cathy Pacey, Department of Cell and Structural Biology, 601 South Goodwin Avenue, Urbana, IL 61801 U.S.A. E-mail: pacey@life.uiuc.edu**. The University of Illinois is an Equal Opportunity/Affirmative Action Employer.

### POSTDOCTORAL CANDIDATE MARTIAN GEOCHEMISTRY

The Lunar and Planetary Laboratory of the University of Arizona has a unique and exciting opportunity for postdoctoral research in the field of Martian geochemistry via remote gamma ray spectroscopy. These measurements are intended to profoundly improve our understanding of Mars and include plans for the first measurements to quantitatively determine the elemental abundances in the Martian surface.

The data provided by 2001 Odyssey GRS will be used to determine the elemental abundances of the major geological regions of Mars. This will include a global map of water deposits, their variation with depth near the surface, and the seasonal changes of the polar ice caps. In addition, GRS will participate in the study of cosmic gamma ray bursts. A Ph.D. in geology, geochemistry, planetary science, or a comparable discipline is required. Applicants must have experience in the following: writing data analysis programs, interpreting elemental abundances in the framework of geochemical processes, and strong computer skills. For full details and qualifications, see **website: <http://www.hr.arizona.edu>**, Job Number 22880 and **website: <http://nemesi.lpl.arizona.edu>**. Please send curriculum vitae and three letters of reference to: **University of Arizona, LPL, Attention: W. V. Boynton, P.O. Box 210092, Tucson, AZ 85721-0092**. This position is open until filled with a review of materials beginning October 10, 2001.

The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer; Minorities/Women/Disabled/Veterans.

**POSTDOCTORAL POSITION** available immediately to study plasticity mechanisms underlying the formation and stabilization of the firing fields of hippocampal place cells. Experience in either electrophysiology or microdialysis required, preferably in awake animals. Send curriculum vitae, publications, research interests, and names of references to: **Drs. R. Muller and S. Fox, Department of Physiology and Pharmacology, Box 31, Downstate Medical Center, 450 Clarkson Avenue, Brooklyn, NY 11203**. Telephone: 718-270-1151; e-mail: bob@fasthp.hippo.hscbklyn.edu. Equal Opportunity Employer.

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH ASSOCIATE Laboratory of Cellular Optics (LOCO) University of Pennsylvania

Applications are invited for two Postdoctoral Research positions in the Laboratory of Cellular Optics of the Department of Neuroscience at the University of Pennsylvania School of Medicine. Successful candidates will collaborate in research using optical methods (including voltage-sensitive dyes, light scattering, molecular probes of specific ion activities, total internal reflection fluorescence, etc.) to study excitation and the release of neuropeptide-containing vesicles at vertebrate nerve terminals or the spatio-temporal patterning of electrical activity in small ensembles of neurons and the control of behavior by relatively simple nervous systems. A Ph.D. in experimental physics, biophysics, or biomedical science is desired but no particular experience in neuroscience is required. Familiarity with physical and/or computational approaches to biological questions (e.g., patch clamping or modeling) would be useful but not essential. Applicants should send or preferably e-mail a letter of interest and curriculum vitae and arrange for three letters of recommendation to be sent to: **Professor Brian M. Salzberg, Department of Neuroscience, University of Pennsylvania School of Medicine, 234 Stemmler Hall, Philadelphia, PA 19104-6074. E-mail: bmsalzbe@mail.med.upenn.edu** before January 1, 2002. The University of Pennsylvania is an Equal Opportunity Employer and encourages applications from women and minorities.

### POSTDOCTORAL FELLOW Wound Healing Research Laboratory Northwestern University

The Wound Healing Research Laboratory at Northwestern University is a multidisciplinary team with expertise in surgery, physiology, and cell biology. We are currently seeking a Postdoctoral Fellow to join our NIH-funded laboratory. We offer a competitive salary and access to a variety of projects focused on dermal wound healing and scar formation/resolution. Candidates should have a Ph.D. degree with an emphasis on molecular biology/cell biology techniques. Experience with signal transduction research is a plus and excellent written/oral communication skills are required. Submit curriculum vitae, three reference letters, a statement of research experience, and a summary of research objectives to: **Dr. Thomas A. Mustoe, 300 East Superior Avenue, Tarry Building 4-723, Chicago, IL 60611**. Applications can also be made via FAX: 312-503-3348.

### POSTDOCTORAL POSITION

Candidate will study molecular/cellular biology of hematopoietic stem cells with a research focus on the functions of newly cloned genes. Past experience in molecular biology and cell culture is required. Training in flow cytometry is desired. Please send research summary, curriculum vitae, and names and telephone numbers of three references to: **Schickwann Tsai, M.D., Ph.D., Associate Professor, Division of Hematology, Department of Medicine, University of Utah School of Medicine, 30 North 1900 East, Salt Lake City, UT 84132-2408. E-mail: schickwann.tsai@hsc.utah.edu**. The University of Utah is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

### POSTDOCTORAL POSITIONS

Postdoctoral positions are available to study the immunobiology of membrane complement regulators (CD55, CD59) using knockout mice. Interested candidates with Ph.D. or M.D. degrees and research experience in immunology (autoimmunity, transplantation, inflammation); molecular biology; or animal models of human diseases should send curriculum vitae and names of references to: **Dr. Wen-Chao Song, Center for Experimental Therapeutics, University of Pennsylvania School of Medicine, Philadelphia, PA 19104. E-mail: song@spirit.gccc.upenn.edu**.

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS Cancer Genetics and DNA Chips

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

### NUCLEAR RECEPTOR LABORATORY POSITIONS

**POSTDOCTORAL POSITIONS** are available immediately in our internationally known laboratory research group, which is focused toward understanding the molecular and physiological basis of nuclear receptor signaling in normal target cells and in endocrine cancers. The successful applicant will both generate new genetically engineered mouse models using state-of-the-art technologies and apply microarray approaches for gene expression profiling of existing mouse models in our laboratory. Salary opportunities will be at the upper competitive end of the national norm. Applicants with a strong background in molecular biology and in using animal systems are encouraged to apply. Applicants should have received their Ph.D. and/or M.D. within the past five years and be eligible for an appropriate U.S. visa, if necessary.

Current curriculum vitae, a brief statement describing prior research and future career goals, and three letters of reference (all required before applications are reviewed) should be sent to: **Dr. Bert W. O'Malley or Dr. John Lydon, Baylor College of Medicine, Department of Molecular and Cellular Biology, One Baylor Plaza, Room 613, Houston, TX 77030-3498 U.S.A. FAX: 713-798-5599; e-mail: jlydon@bcm.tmc.edu**.

**POSTDOCTORAL POSITION** is available from March 2002 to work on NIH-sponsored project on the physical bases of protein structure and protein-DNA interaction. Strong background in molecular biology and biophysical chemistry is required. Send curriculum vitae and names of three references to: **Dr. Peter Privalov, Department of Biology, Johns Hopkins University, 3400 North Charles Street, Baltimore, MD 21218. FAX 410-261-1064; e-mail: privalov@jhu.edu**. The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are especially encouraged to apply.

**POSTDOCTORAL POSITION** available immediately to understand the mechanism and dynamics of ATP-driven DNA packaging in viruses using bacteriophage T4 model. Novel combinatorial mutagenesis, recombinant DNA, and biochemical approaches will be used. Strong background in molecular biology and biochemistry is desirable. Send curriculum vitae and names of three references to: **Dr. Venigalla B. Rao, Department of Biology, 103 MCW, The Catholic University of America, 620 Michigan Avenue N.E., Washington, DC 20064. E-mail: rao@cua.edu**.

## POSITIONS OPEN

Two **POSTDOCTORAL** and **TECHNICIAN POSITIONS**: RNA structure/function. Available January 2002. Postdoctoral applicants should have a Ph.D. degree in biochemistry/molecular biology with experience in spectroscopy or a Ph.D. degree in biochemistry/chemistry with sufficient experience in biomacromolecular NMR spectroscopy to operate modern high-field instruments and perform structure determination. Respond with curriculum vitae, statement of research experience and interest, and three reference letters to: **Dr. Paul F. Agris, Molecular and Structural Biochemistry, Box 7622, North Carolina State University, Raleigh, NC 27695-7622. E-mail: paul\_agris@ncsu.edu.** Technical applicants with minimally a B.S. degree in microbiology, biochemistry, or chemistry should have postgraduate job experience in separation (HPLC, PAGE) and spectroscopy. Laboratory management skills important. Application forms/information for Number 608704 at website: <http://www2.acs.ncsu.edu/hr/hrforms.html>. Affirmative Action/Equal Opportunity Employer. Americans With Disabilities Act Accommodations.

### POSTDOCTORAL POSITION Mouse Genetics

Postdoctoral Fellow position available immediately to create mouse models to study the regulation plasma homocysteine by manipulation of the cystathionine beta-synthase gene (see *Hum. Mol. Genet.* 10: 635-643, 2001). Experience with recombinant DNA, working with mice, and/or protein biochemistry would be useful. Successful candidate should be highly motivated with good communication skills. Position is at the Fox Chase Cancer Center, located in a suburban section of Philadelphia, Pennsylvania. Acceptance for this position will require an interview in Philadelphia. Travel funds are available for qualified individuals traveling within North America. Send curriculum vitae and names of three references to: **Dr. Warren Kruger, Division of Population Science, Fox Chase Cancer Center, c/o Human Resources, 7701 Burholme Avenue, Philadelphia, PA 19111. E-mail: wd.kruger@fccc.edu.** Equal Opportunity Employer.

**POSTDOCTORAL RESEARCH POSITIONS** are available for an NIH-funded investigation of a serine protease and its role in apoptosis. Applicants should have a strong background in biochemistry, cell biology, or genetics. The Postdoctoral Fellows will join a highly interactive team in a new research center with state-of-the-art facilities. Requirements include a recent Ph.D. or M.D./Ph.D.; experience in the field of stress signaling and apoptosis is highly desirable. Send curriculum vitae and three references to: **Antonios S. Zervos, Ph.D., Biomolecular Research Center/Molecular Biology and Microbiology, University of Central Florida, 12722 Research Parkway, Orlando, FL 32826. E-mail: azervos@mail.ucf.edu.**

The University of Central Florida is an Equal Opportunity/Affirmative Action Employer. Application materials including transcripts are public documents available for review upon request.

### POSTDOCTORAL RESEARCH ASSOCIATE Virginia Mason Research Center Seattle, Washington

Position available in laboratory of **Gerald Nepom** for motivated Scientist with experience and interest in molecular immunology and human immunogenetics. M.D. or Ph.D. required. Highly interactive laboratory environment focused on mechanisms and monitoring of human autoimmune diseases. Please send inquiries and résumé to:

**Human Resources  
Virginia Mason Research Center  
1201 Ninth Avenue  
Seattle, WA 98101  
E-mail: jobs@vmresearch.org  
Website: <http://www.vmresearch.org>**

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## POSITIONS OPEN

**POSTDOCTORAL POSITION** available to study the p53 tumor suppressor protein, specifically regarding transcriptional repression and apoptosis (see *MCB* 21:3974 and *Genes Dev.* 13:2490). Ideal candidate will be motivated and possess strong molecular biology and writing skills. Send curriculum vitae and names of three references to: **Maureen Murphy, Ph.D. Department of Pharmacology, Fox Chase Cancer Center, c/o Human Resources, 7701 Burholme Avenue, Philadelphia, PA 19111. FAX: 215-728-2682; website: <http://www.fccc.edu>.** Equal Opportunity Employer.

## GRANTS

**DYSTONIA RESEARCH GRANTS AND CONTRACTS:** Grants are being sought to develop important tools for DYT1 dystonia research for the development of antibodies to TorsinA and related TorsinB, animal models, proteomics, cell cultures models, and the development of new assays suitable for high-speed throughput drug screening. Amount: \$40,000 to \$150,000. Deadline: December 30, 2001. **DYSTONIA FELLOWSHIP:** This Fellowship program is designed to assist Postdoctoral students to establish careers in dystonia research. Amount: \$50,000 per year for two years. Deadline: December 30, 2001.

For more information and applications to these programs, contact: **Dystonia Foundation; Telephone: 312-755-0198; website: <http://www.dystonia-foundation.org>.**

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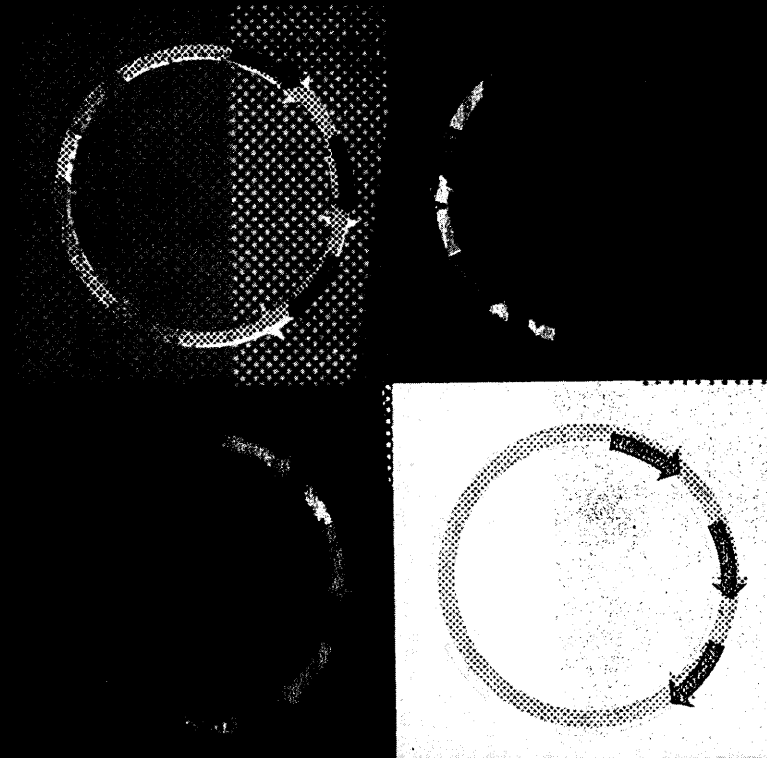
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