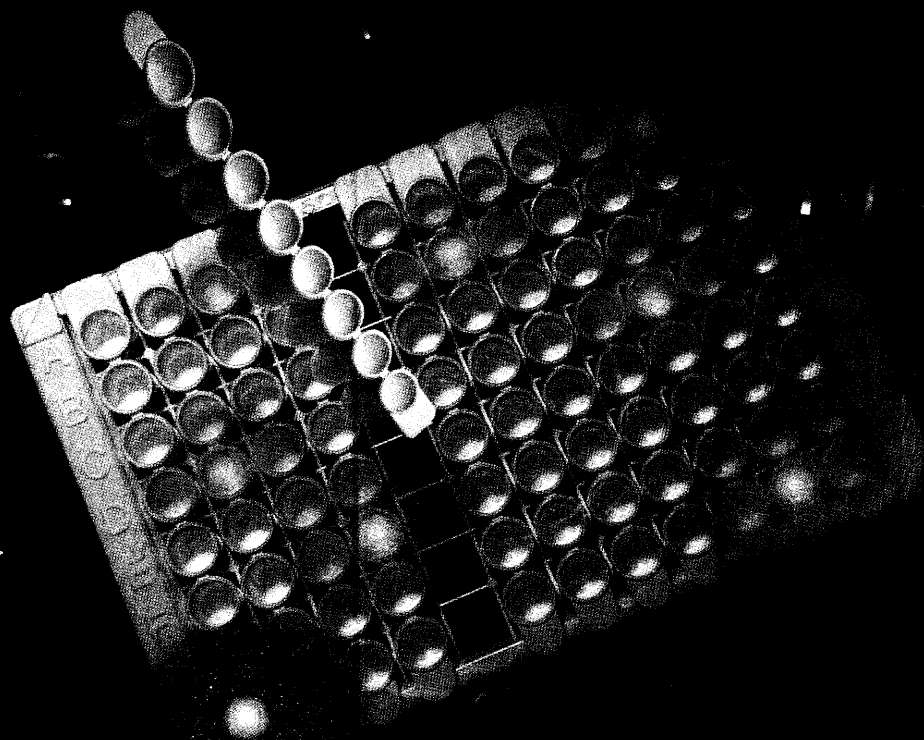


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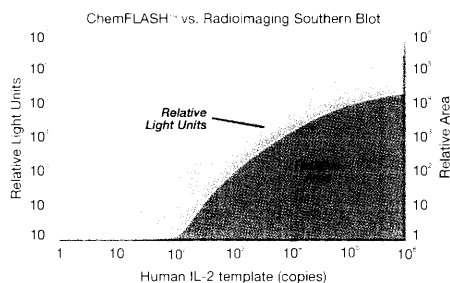
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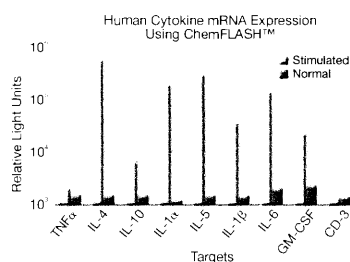
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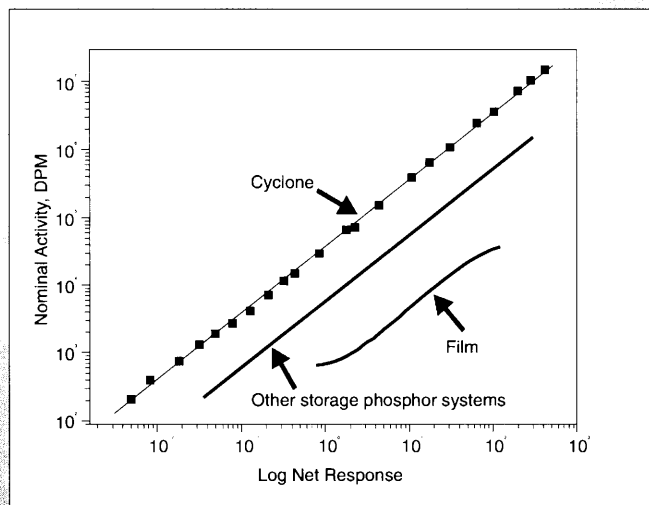
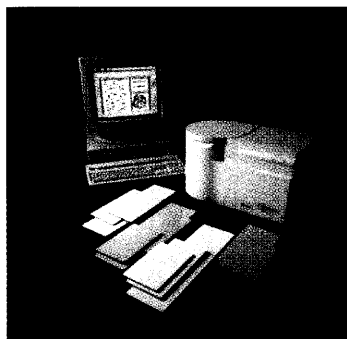
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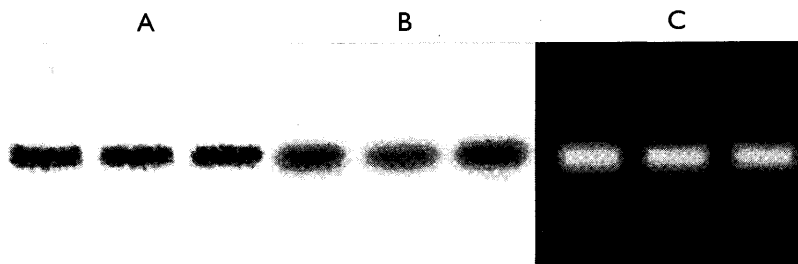
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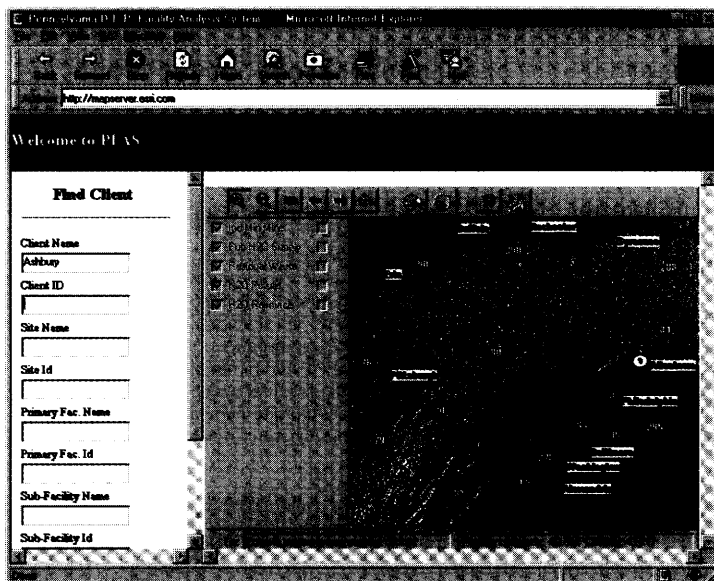
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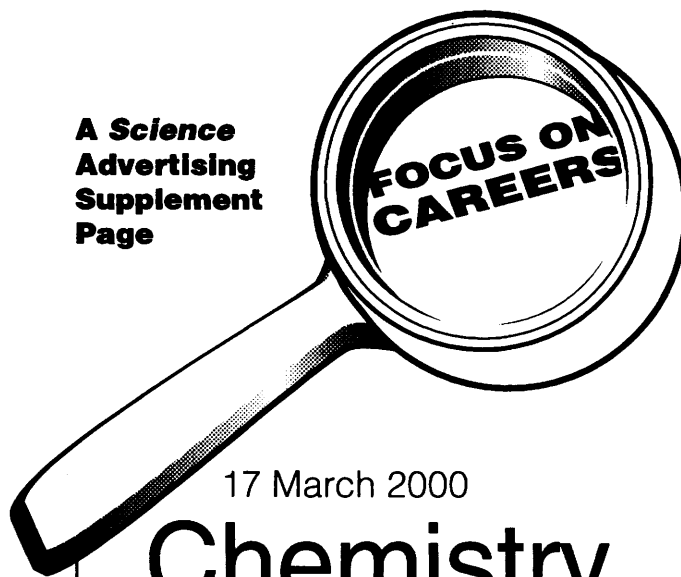
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# women in science

## THE FLEXIBILITY FACTOR

**A recent report suggests that biotechnology companies are more hospitable to women and families than corporations in other industries. Pharmaceutical firms have also started efforts to address the concerns of female scientists.** By Peter Gwynne

Often regarded as a hotbed of overnights, seven-day weeks, and excessive unpaid overtime, the biotechnology industry may actually offer life scientists the flexible working environment that can benefit individuals who bear the brunt of family responsibilities. That's one conclusion of a report issued in December by the Radcliffe Public Policy Center, a research center that "works to engage women and men as full partners in shaping policy on important national, social, political, and economic issues."

Titled 'Professional Pathways: Examining Work, Family, and Community in the Biotechnology Industry,' the study finds that the biotechnology business offers scientists a middle ground between academic life, which demands unstinting effort from individual scientists, and large pharmaceutical firms, whose large bureaucracies can limit creative solutions to family demands. Based on interviews with three biotechnology

companies in Massachusetts, the study also identifies a degree of freedom that other pursuits in life science lack. "Radcliffe researchers expected professional science careers, and especially laboratory-based science careers, to require long hours and perhaps to be 'nonfamily-friendly,'" the executive summary states. "Yet, we found that work in biotechnology and biopharmaceutical firms offers opportunities for relatively reasonable hours and flexibility that might accommodate women with family responsibilities, at least in theory."

Several factors account for the industry's potential for family-friendliness. Many biotech projects and individual experiments cannot be rushed; thus, experimenters have little reason to put in long days at work even if they want to. Biotechnology companies are typically small and unbureaucratic. That encour-

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*A former science editor of Newsweek, Peter Gwynne writes about science and technology from his base on Cape Cod, Massachusetts, U.S.A.*

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ages informal agreements between managers and scientists over flexible working hours and time off for such necessary activities as children's medical appointments. Just as significant, women make up about 50 percent of the professional scientists in biotechnology firms, well above their proportion in other life science pursuits. Why? The Radcliffe study's team of researchers, which included Lotte Bailyn and Susan Eaton, suggests that careers in biotechnology offer female scientists more equitable opportunities than rival careers. The combination of small work forces and high proportions of women gives female scientists more chances to gain management skills and earn promotions than in other industries.

The biotech industry does not have a perfect record on women's issues. The Radcliffe report notes that flexible work arrangements and women's opportunities for promotion often depend on informal arrangements at the managerial level rather than corporate policy. Women seem to need doctoral degrees to move up in the industry more often than men do. The proportion of women in biotechnology jobs decreases from the technician

**The combination of small work forces and high proportions of women give female scientists more opportunities to gain management skills and earn promotions than in other industries.**

level to the researcher level to the senior management level, and men still hold the majority of influential positions in biotechnology companies. Nevertheless, the industry is making progress in accommodating women and others with family responsibilities.

Biotechnology is not alone. Several large pharmaceutical companies have set up formal family-friendly policies that permit female scientists to take leave for childbearing and child rearing. Some even provide day care facilities on-site.

Here, we discuss the Radcliffe report with one of its co-authors. We also talk to two women who have prominent positions in biotechnology companies after several years of academic experience and one woman with extensive experience in a major pharmaceutical firm.

**CAMBRIDGE, Massachusetts:** "In biotechnology, the product development cycle is very long, and some biological processes have a pace of their own that cannot be sped up," says Françoise Carré, research director of the Radcliffe Public Policy Center and co-principal investigator for the Center's report on Professional Pathways. "So you can pace your work around those processes. That contrasts with the demands of academic career tracks. They involve very long work hours and continual commitment of time, which doesn't go well with interruptions for child rearing."

Of course, biotechnology firms expect their employees to work hard even after they have survived their first few frantic years as start-up firms. "The firms that we studied do not have light schedules. They work 40-45 hours per week," says Carré. "That's demanding, but not the grueling hours that preparing for academic tenure requires."

The nature of commercial biotechnology accounts for many of the career differences between life in academe and that in established biotechnology companies of medium size. "In biotechnology companies, you work on more than one project, which can gain or lose in importance. Working on more than one thing is valuable to scientists," Carré points out. "In addition, women's

possibilities of advancement are decent, because the smallness of the companies gives individual scientists more responsibilities and the chance to move up."

To set against those advantages, the biotechnology business carries a high degree of risk. "People entering biotechnology firms know that it's going to be a very long time before they can find out if the product they're working on will work. Over 10 or more years, there will be multiple points at which the product might fail. Scientists have accommodated to the fact that the discovery process is fraught with unknowns. So is the market component. And biotechnology companies work on funding from venture capital, which can also be lost."

Two factors mitigate that level of risk: "Because scientists can work on more than one project, one failure is not the end," says Carré. "And the fact that biotechnology is concentrated in a few geographical clusters means that scientists can shuttle around."

The pharmaceutical industry has somewhat different requirements of its scientists, which tends to reduce the flexibility of their working hours. "We've been told that the pharmaceutical business is a 9-5 culture," says Carré. "Because of security issues, you can't get in too early or leave too late." However, she adds, some R&D arms of large pharmas have begun to adopt the biotechnology industry's model of work organization. And some pharmaceutical companies have instituted family-friendly policies for all their workers.

Despite the progress at the level of bench scientists and group leaders, Carré believes that women still have a way to go to full equality in the biotechnology business. "There are very few female CEOs," she says. "The higher you go in biotechnology companies, the fewer women there are."

**"...women's possibilities of advancement are decent, because the smallness of the companies gives individual scientists more responsibilities and the chance to move up."** Françoise Carré

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Millennium has a new vision for the future of medicine. That drug development be perfectly precise. That all patient therapies be totally individualized. That every disease be targeted at its core. We will succeed in realizing this vision for one thousand reasons—our people. Expertise, insight, synergy and above all passion unite us in creating a better way to cure disease and allow us to have fun in the process. Further, our recent merger with LeukoSite, Inc.—which brings commercialization expertise and a rich pipeline of potential products—leapfrogs Millennium toward our vision of building the pharmaceutical company of tomorrow. The face of the future never looked brighter.

Join us in building the biopharmaceutical company of the future at our Cambridge facilities. For complete details on these and other opportunities, we invite you to visit our website. To apply, please respond by sending only one resume using only one of the following methods, indicating the position(s) you are interested in. Mail your resume to: Millennium Pharmaceuticals, Resume Processing Center, Source Code SC700, PO Box 798, Burlington, MA 01803. Email: [millennium@webhire.com](mailto:millennium@webhire.com). Fax: (800) 370-6925. A source code must be included with all submissions. As an equal opportunity employer committed to discovering the individual in everyone, we proudly support women in the scientific workforce.

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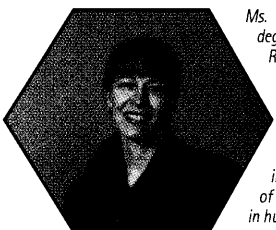
# Boehringer Ingelheim Pharmaceuticals, Inc.

## Bringing A World Of Science

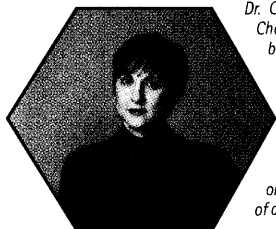
## To The World At Large.



*Dr. Amale Hawi, Director of Drug Metabolism and Pharmacokinetics, holds B.S. and M.S. degrees in Chemistry and earned her Ph.D. degree in Organic Chemistry from the University of London. Amale joined Boehringer Ingelheim Pharmaceuticals in 1990 from the University of Kentucky College of Pharmacy where she was an Assistant Professor.*



*Ms. Holly Dursema received her Master's degree in Pharmacology/Toxicology from Rutgers University and is a Diplomate of the American Board of Toxicology. As a Principal Scientist in the Toxicology and Safety Assessment Department at Boehringer Ingelheim Pharmaceuticals, Holly designs and implements studies to assess the safety of new compounds prior to their use in humans.*



*Dr. Christine Grygon received her Ph.D. in Chemistry at Princeton University and began her career at Boehringer Ingelheim Pharmaceuticals as a spectroscopist in the Analytical Sciences Department. She is currently an Associate Director in the Biology Department managing a physical biochemistry group. Her group's research is focused on characterizing binding and mechanism of action of new drug discovery candidates.*



*Ms. Kristin O'Connor has a Master's of Public Health degree and has been accepted into candidacy for a Dr. of Public Health degree at Yale University. She has worked in the Biometrics and Data Management disciplines of the pharmaceutical industry for 23 years. She has been active in PhRMA and was on the founding board of the Society for Clinical Data Management. Currently she is Director of Data Management at Boehringer Ingelheim Pharmaceuticals.*

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## Neuropharmacologist

As a principal laboratory scientist, you will be responsible for leading a team of associates conducting research in fields related to brain inflammation, neurodegeneration and apoptosis (e.g., cerebral ischemia/stroke, traumatic brain injury). You will lead the way in the development and optimization of methods for characterizing compounds in these neurological indications based on surgical, behavioral and histochemical approaches. You will also participate in project teams involved in the preclinical phases of compound progression, including project leadership responsibilities requiring strong oral, written and presentation skills. Requirements include a Ph.D. in neuroscience or pharmacology, a clear record of independent scientific excellence in neuroscience research and experience in the pharmaceutical industry.

## Associate Scientists & Scientists

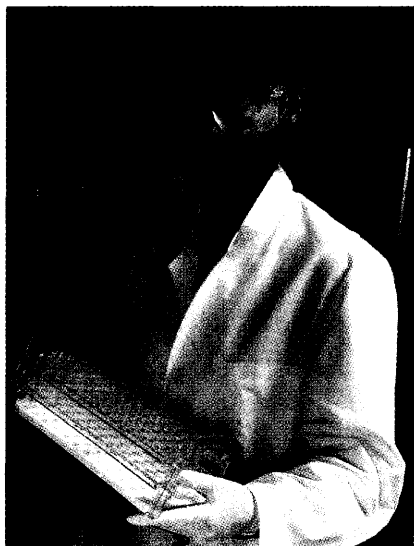
All sections within our CNS therapeutic area have challenging career opportunities. If you have a BS or MS degree and 2-5 years experience in any of the following areas, Aventis could help you build an excellent future. There will be positions for competent individuals having skills in electrophysiology, behavioral pharmacology, neuropharmacology, cerebrovascular surgery and neurodegeneration.

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This principal laboratory scientist will conduct research in the area of neuropsychopharmacology, and will develop and optimize new animal models for the characterization of compounds in neurological (specifically multiple sclerosis) and psychiatric indications (e.g., schizophrenia and depression). In addition to requiring a Ph.D. in neuroscience, ethology, pharmacology or psychology, it is critical for the successful candidate to have both a thorough understanding of behavioral methods necessary to characterize drugs in animals, a strong knowledge of multiple sclerosis and the methods necessary to model it in the laboratory. Significant experience with microdialysis technology is highly desired. You will also participate in project teams involved in the preclinical phases of compound progression, including project leadership responsibilities requiring strong oral, written and presentation skills. Requirements include a record of independent scientific excellence in neuroscience research and pharmaceutical industry experience.

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It's our solid dedication, vision and constant search for answers that allow us to touch millions of people around the world every day. As a major division of Fortune 500 American Home Products Corporation, we help people lead healthier lives through the development of innovative pharmaceutical, vaccine and nutritional products. We achieve this through our superior research, manufacturing, sales and marketing capabilities. Enjoy the freedom to develop your own career while having the support of a valuable team.

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Wyeth-Ayerst Research is focused on advancing medical therapy and prophylaxis in areas of critical need, including women's health care, central nervous system disorders, musculoskeletal disorders, infectious diseases, oncology, hemophilia, vaccines, transplantation and immunology. Wyeth-Ayerst Research organizes the global efforts of approximately 5,000 employees worldwide in the search for and development of new small molecule drugs, therapeutic proteins and vaccines that will enhance both the quality of healthcare and Wyeth-Ayerst's product line.

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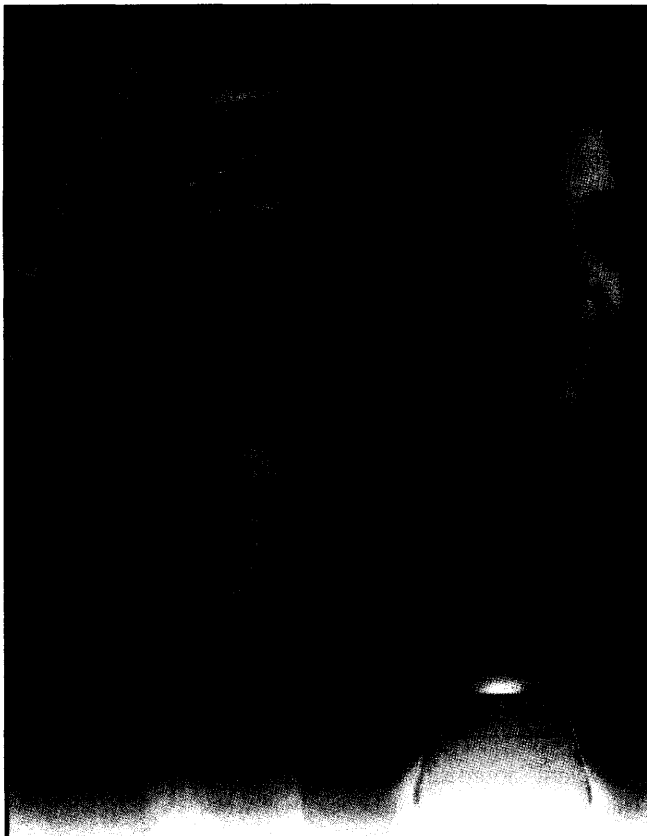
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**NEEDHAM, Massachusetts:** Una Ryan provides an exception to the rule that women with family responsibilities can rarely make their way up the corporate ladder. "I never felt that a career and concurrent motherhood were denied me," she says. "I never felt much of a glass ceiling, mainly because I took unusual routes, and was a bit of a misfit." So much of a misfit has she proved to be that she is now CEO of Avant Immunotherapeutics, Inc., a biotechnology company whose mission is to create products that harness the human immune response to prevent and treat disease.

Ryan didn't have an easy road. After earning her Ph.D. from Cambridge University, she spent almost 30 years in academic life in the United States. For much of that time she was a single mother of two daughters. "There's no question that it was always a struggle," she recalls. "As a young faculty member at the University of Miami, I always found other graduate students with young children whose wives would look after my children. But I had some awfully bleak moments, such as having to breast-feed a child when I had to deliver the last 10 minutes of a seminar."

Those experiences colored Ryan's thinking when she moved into industry, first as a division head at Monsanto Corporation and then as head of Avant. "Once I got to positions of power, I looked very kindly at people, and especially single parents, struggling to make a career," she says. "Although I muddled through all right myself, I have a very clear idea that people need to have help."

Beyond Ryan's own experience is the fact that biotechnology has more women scientists than other segments of the life science industry. "That makes it a friendlier industry," says Ryan, noting that the numbers of female scientists at Avant roughly matches that of male scientists. That's important, she explains, because "women and men differ enormously in what they regard as flexible hours."

The nature of biotechnology gives biotech companies more opportunity than many technology-based employers to keep their employees on a loose rein. "The longer cycle of projects and the fact that we have to wait for cells to grow slows us down," says Ryan. "Pharmaceutical companies have professed philosophies and policies of being family-friendly. But they find them difficult to implement because they have all sorts of controls to guard industrial secrets, and they tend to rely on a team and product strategy. We're not all loners in biotechnology, but when you do the experiment, it's between you and your task. There's more individuality in the experimentation, which gives you the chance for more flexibility."

Avant doesn't have a formal policy on flexible working conditions. "But we'll do it," says Ryan. Implementation occurs at

**"Once I got to positions of power, I looked very kindly at people, and especially single parents, struggling to make a career...."** Una Ryan

the individual level. "So a personalized supervisor-supervised relationship of trust must be established," she adds.

Having reached the corporate heights, Ryan reflects on her struggle to succeed in a male-dominated world and its implications for younger women scientists. "My generation believed that it would be a battle, but it was worth it," she says. "My daughters' generation thinks that opportunities should be the same for women and men."

**CAMBRIDGE, Massachusetts:** Cereon Genomics LLC, a collaboration between Monsanto Corporation and Millennium Pharmaceuticals, Inc., has a rare niche in the biotechnology world. It carries out genomics research with potential applications in agriculture. The company also takes a

**"The expectation is that people will work better if they take time for their personal needs and their personal lives are happy."** Karen Kindie

benevolent approach to its employees. "The expectation is that people will work better if they take time for their personal needs and their personal lives are happy," says Karen Kindie, a leader in Discovery Genomics at Cereon.

Kindie's current experience contrasts markedly with that in academe. "I was at Cornell University for 11 years in a non-tenure-track research position, in which I had to generate my own salary from research grants," she says. "That involved hugely long hours. I probably didn't do a good job negotiating for myself. So when my children were young, I was working 10 hours a day, six days a week, to be productive enough and keep the grants coming."

Eventually Kindie joined the National Science Foundation as a visiting scientist. As the end of that posting approached, she relates, "I realized that I didn't want to go back to a Cornell-type situation." So nine months ago, after 18 months with the NSF, Kindie joined Cereon.

There, she works in an organization that operates on flex time. Like the NSF, Cereon expects its employees to be at work and to schedule meetings during certain core hours. But the company permits them to come in and leave when they choose outside those hours. "I generally take weekends off, which I haven't done before," says Kindie. "That's not to say that people don't work hard at certain times. But it's so refreshing not to feel guilty about not working on weekends."

Ironically, Kindie had moved into a family-friendly situation at a time when her own children have grown up and left home.

However, she says, "a number of women at Cereon have young children. They take the time to look after them when the children are sick. The women I met in academe seemed far more stressed."

What factors influence the company's flexibility? "Being a young company helps," says Kindie. "It's also much more of a teamwork environment here



# Growing Amazement

Cereon Genomics' mission is to apply genomics technology to transform agriculture ... making plants hardier, naturally disease and pest-resistant, able to grow in some of the most inhospitable conditions. All to improve the quality and quantity of the world's food supply.

In the past two years, we've taken major steps towards achieving that mission by:

- Creating a world class facility
- Implementing a highly advanced sequencing operation
- Acquiring the latest state-of-the-art equipment
- Identifying key projects in genomics, bioinformatics, and robotics
- Bringing together a team of exceptional professionals at all levels

It is with growing amazement that we realize what we have accomplished ... and what is still left to do. That's why we seek more innovators with a focused sense of urgency and a healthy sense of wonder to join us, keep our impressive momentum going, and make the future of genomics technology happen!



## LEADER, TRANSCRIPTION PROFILING

Build and lead a transcription profiling core production team capable of delivering large quantities of high quality data to customers throughout the company. This group will be responsible for array element production, array printing, probe production, hybridization, data collection and primary analysis. A key focus will be the development of stringent QA/QC processes for both internal work and external suppliers to enable the creation of robust reference databases of gene expression patterns. This leader will communicate across the enterprise to ensure appropriate knowledge and understanding of Cereon capabilities and will manage prioritization of projects and workflow. Background in process engineering and extensive experience in management of a high throughput genomics lab are desired; a Ph.D., Engineering degree, or equivalent experience expected. **Job Code: 7200-17SW**

## STATISTICIAN - QTL CLONING

Seeking a Statistician with a solid grounding in the theory of statistical methods and experience in applying these to problems in genetics. You will join a team responsible for QTL analyses and other statistical problems in genomics and plant breeding. At least 2 years' postdoctoral experience is required. Experience with QTLs and a background in Biology are a plus. Critical thinking, adaptability, excellent communication skills, and an ability to work well as part of an interdisciplinary research team are essential. **Job Code: 7400-13SW**

## PH.D. ANALYTICAL CHEMIST - LC/MS AND LC/MS/MS

Our High Throughput Analytics Dept. has an opening for a Scientist with a Ph.D. degree in Analytical Chemistry or relative field. Interact and collaborate with multidisciplinary project teams to provide high throughput LC/MS and LC/MS/MS support for genomics research. The qualified candidate should have hands-on experience with sample extraction from biological matrix as well as with performing qualitative and quantitative LC/MS and LC/MS/MS analysis. The successful candidate must have strong background in HPLC separation and mass spectrometry to conduct method development of LC/MS and LC/MS/MS using biological samples. Good organizational and communication skills, creativity and initiative are required. Understanding of biochemistry and mass spectrometric interpretation is highly desirable. Familiarity with Micromass mass spectrometers is a plus. **Job Code: 7300-04SW**

## COMPUTATIONAL BIOLOGIST - BIOINFORMATICS

Applicants should have a Master's or Ph.D. in Biology or related field, and have a proven ability analyzing large volumes of biological data using computational approaches. Programming (Perl, C, Java) and database (relational, SQL queries) experience is desirable, but not essential. The successful candidate will have a desire to explore biology using a multifaceted bioinformatic approach, along with close interactions with Bench Scientists. You should also possess good organizational and communication skills, exhibit creativity and initiative, and enjoy working in a multidisciplinary team environment. **Job Code: 7100-33SW**

## LAB TECHNICIAN(S) II - TxP

Requires basic molecular biology skills, specifically PCR, gel loading, and pipetting. Good attention to detail and excellent record-keeping skills necessary. Computer experience and work with robotic/semi robotic equipment a plus. **Job Code: 7200-11SW**

## RESEARCH ASSOCIATE - TxP

Requires strong math skills, biology background, use of imaging software and a working knowledge of Excel. Some bioinformatics knowledge a definite plus. **Job Code: 7200-14SW**

## DATA ANALYST - MARKER DEVELOPMENT

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## *The Department of Molecular Biology*

The Department of Molecular Biology has responsibility for providing platform technologies to support Research and Discovery in the areas of high-throughput gene expression profiling by microarrays, as well as, cDNA and genomic cloning. Two new opportunities have arisen for highly motivated individuals in the Microarray Group for:

### **PhD Scientist - DNA Microarrays**

You will be responsible for conducting microarray studies in gene expression analysis for target identification and target validation in a range of animal and microbial systems. In addition, you will be responsible for introducing improvements to our microarray and other high-throughput expression analysis platforms. The position will involve work in the manufacture and processing of microarrays as well as data analysis. Other responsibilities will include offering critical expertise to experimental design and data validation. Responsibilities may also include managing a laboratory and supervising one or more lab scientists. We require a PhD in molecular biology, biology, genetics, or biochemistry and a minimum of 2 years of post-doctoral experience. Experience in fluorescent labeling, hybridization kinetics and robotics is highly desirable. Experience with microarrays and relevant engineering or computer technologies with some computer programming skills is a plus. (Ad Code: 991797A)

### **Scientists - Molecular Biology/DNA Microarrays**

You will be responsible for the manufacture of microarrays, RNA production, probe generation, hybridization, and analysis of microarray data. You will also be responsible for the cloning and preparation of DNA targets for placement on microarrays. We require a Bachelor's degree with 3-5 years of relevant experience or a Master's degree with 1-3 years of experience. You must also have experience in standard RNA/DNA methodologies including recombinant DNA techniques, PCR, and a working knowledge of state-of-the-art cDNA and genomic cloning methodologies. Computers, robotics systems and microarrays experience are also necessary. (Ad Code: 991931A)

## *Genetics Technologies*

### **Investigator/Senior Investigator**

You will supervise the Genetic Technologies group, and provide expertise in DNA sequencing and mutation detection. You will also be responsible for establishing mutation detection methods as a tool to evaluate the role of variation in microbial and mammalian gene targets. We require a PhD in mammalian or microbial genetics with 2-3 years of relevant experience, and a knowledge of DNA sequencing and mutation detection technologies. The ideal candidate will also have experience in using DNA sequencing assembly programs. A good working knowledge of molecular biology would also be an asset. (Ad Code: 991070A)

## *Cardiovascular Pharmacology*

### **Investigator/Senior Investigator**

You will establish an exploratory research project to evaluate novel mechanisms of heart failure and vascular disease, and provide expertise necessary to perform *in vitro* and *in vivo* pharmacologic evaluations and establish relevant animal models of cardiovascular disease. We require a theoretical and practical knowledge of pharmacology with an emphasis on physiologic principles and cardiovascular disease. A PhD with post-doctoral experience is preferred. (Ad Code: 991535)

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Aventis Pharmaceuticals is dedicated to extending and enhancing human life through the discovery, development, manufacture and sale of pharmaceutical products. Aventis Pharmaceuticals offers the power of global forces in pharmaceutical products and services, an excellent financial standing and a vision for the future that is unmatched in the industry.

## **Group Leader Bioinformatics/Bioanalysis**

Aventis is committed to pushing the boundaries of genomic research and recognizes the critical importance of converting vast amounts of biological data into useful knowledge. An exciting opportunity is now available in our **Respiratory Disease Group** for a highly-motivated scientist to make a positive contribution to the identification of pathologically relevant drug targets.

A major focus of this effort is on building target families including, chemokine receptors, proteinases, transcription factors and adhesion molecules to feed our microarray platforms. A wide range of techniques must be employed including database mining of public domain and proprietary databases using methods such as **PSI-BLAST, HMMer and ESTwise** in order to detect remote homologies.

Bioanalysis is one of the fastest growing and most exciting areas of modern biology. Aventis is currently seeking a senior **Ph.D. Bioinformatician** to head a team of scientists focused on applying genomic based technologies to elucidate novel targets in rheumatoid arthritis and respiratory diseases such as asthma. The candidate will be responsible for rapidly mining extremely high volumes of DNA sequence, microarray and other gene expression data, to identify new targets in these diseases. Their team will work closely with the disease group biologists and the Core Biotech teams including a global bioinformatics support group. The successful candidate will have excellent communication skills, at least 3 years experience in bioinformatics/bioanalysis and a proven record in team leadership. This role requires strong experience with the use of **GCG, BLAST, HMM** and microarray analysis software. Knowledge of **Perl, HTML, UNIX and SQL** is also required.

Become part of the most exciting growth company in the pharmaceutical industry. Please send a resume and cover letter indicating your full career details and **ad code: 2000BW0004** to: **Aventis Pharmaceuticals, B103H, P.O. Box 6800, Bridgewater, NJ 08807-0800.** email: **jobs@aventis.com**

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## EXELIXIS

Exelixis is the premier functional genomics company whose mission is to define connections between genes and human disease. We are applying our technology platforms using model systems to identify critical genes in disease pathways, determine functional relationships, and select optimal targets for therapeutic intervention. We are also committed to developing new approaches to the control of agricultural pest species. Our rapid growth has created outstanding opportunities for experienced researchers to join our multi-disciplinary R&D team in the following roles:

# Vision....Leadership....Discovery!

### Research Scientist DNA Sequencing Technology Development

You will be the key member of a team implementing a high volume sequencing platform and responsible for all aspects of technology development related to the high throughput DNA sequencing process. Requires an MS/PhD with 2-4 years' molecular biology experience and demonstrated skills with automated DNA sequencers. (Job #: 99-122)

### Research Scientist Genomics Technology Development

As part of a new team dedicated to increasing the throughput of our gene discovery pipeline, you will evaluate, test and implement state of the art genomics technologies. Requires a PhD with 0-4 years' experience in genomics, genetics or assay technologies. (Job #: 99-134)

### Research Scientist/Curator *Drosophila* Genetics

You will supervise the maintenance of a large collection of *Drosophila* (and other insect) cultures, stock database development, and research directed at improving genetic technologies in model insects. Requires an MS/PhD with 6+ years' *Drosophila* experience. Database development or supervisory experience is a plus! (Job #: 00-7)

### Research Scientist *C.elegans* Genetics

You will utilize *C.elegans* genetics to identify the molecular targets for human pharmaceutical or pesticide development. Requires an MS/PhD with in-depth *C.elegans* experience. (Job #: 00-8)

### Senior Research Scientist Biology

The ideal candidate will have broad experience in expression, purification and characterization of proteins from a variety of recombinant sources. This position will support both assay development and crystallography efforts and lead the Biology Technology Core Facility. Requires a PhD or equivalent with 3+ years' experience in producing and characterizing recombinant proteins and management experience. (Job #: 00-1)

### Research Scientist Oncology

You will determine the function of novel human homologs identified in invertebrate genetic screens as potential oncology drug targets. Requires a PhD or equivalent in biochemistry, molecular, or cell biology and experience in cancer genetics. (Job #: W00-2)

### Research Scientist Plant Biotech

You will utilize genetics of model plant and fungal systems (including *Chlamydomonas* and *Ustilago*, yeast and other fungi) to identify molecular targets of pesticides and create new tools and reagents for functional genomics. Requires a PhD with 2+ years' experience in plant or fungal genetics and molecular biology. (Job #: 00-52)

### Group Leader Computational Biology

You will oversee the Computational Biology Group at Exelixis. Requires a PhD or equivalent in molecular biology, genomics, molecular genetics, biophysics, and/or computer science; 5+ years' experience creating and maintaining databases and/or software for analysis of biological data sets in a production, customer-driven context; 3+ years' experience managing a computational biology or bioinformatics group; familiarity with algorithms underlying sequence assembly and comparisons, gene parsing, structure/function prediction; and familiarity with public resources for biological data sets and their analysis. Publication record in bioinformatics and industry experience is a plus! (Job#: 99-128)

### Informatics Research Scientist Computational Biology

You will design and develop in-house software and database resources; integrate in-house tools with those externally acquired; test and evaluate software tools for archiving and analyzing data; and deploy software for in-house users. Domain of application includes a broad range of biological data sets including genomic mapping and sequencing, protein structure/function analyses, data harvesting from automated laboratory systems, biological assays, and genetic screens. Requires a BS, MS or PhD in computer science or equivalent; 2+ years' programming experience with C, C++, Perl, Python, HTML, SQL and/or Java in a production environment; experience with client-server architectures, common UNIX tools, and structured and object-oriented design; and excellent communication skills. Understanding of DNA and protein sequence databases/analysis tools, molecular biology, genetics and/or genomics; familiarity with Sun workstations, Solaris OS, X Windows and/or RDBMS desired. (Job#: 99-100)

Exelixis offers highly competitive salaries and benefits, generous equity participation, and a stimulating, highly interactive research setting that recognizes and rewards achievement. Please fax your resume/CV to Exelixis, HR Department, Attn Job#\_\_\_; Fax: (650) 825-4226; or email to: [careers@exelixis.com](mailto:careers@exelixis.com).

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



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In addition to an open environment, we offer a competitive salary and benefits package including tuition reimbursement and 401(k). To learn more about our current job opportunities in both our suburban Chicago and St. Louis, MO locations, visit [www.searle-ican.com](http://www.searle-ican.com). Please submit your resume in scannable format to: [monsanto@aon-hros.com](mailto:monsanto@aon-hros.com), Ad Code: 00-WS218 on your subject line and cover letter for expedited review. Or mail it to: Monsanto-00-WS218, PO Box 1262, Findlay, OH 45840. You will receive a postcard acknowledging receipt of your resume. EEO/AA Employer M/F/D/V.

**i**  
**can**

**Make A  
Difference.**

than in academe. In universities, even positive tenure decisions demand clear evidence of individual research accomplishment, which can indirectly penalize collaborative work. Here at Cereon, collaborative activity is an important screening point for interviews. Any perception that a scientist might be a prima donna could preclude the candidate from being considered."

Cereon's supportive attitude towards families is matched by its willingness to promote scientists according to ability rather than gender and family responsibilities. "The family issue is probably irrelevant in promotions," Kindle says. "I feel much more appreciated here than ever before."

**PRINCETON, New Jersey:** When Cathy Knupp joined the Bristol-Myers Squibb Pharmaceutical Research Institute in 1987, she had a nine-month old child. Today, she has five children between the ages of 2 and 13. During that period of childbearing and child rearing, she has advanced from a bench scientist to her present position as executive director of metabolism and pharmacokinetics at the Institute, responsible for 50 scientists and other staff.

"I've come to appreciate the flexibility afforded me in having both a family and a career," she says. "When I've needed to go on leave, I've been able to manage it from a work process perspective. I've been able to work from home. And after finishing my leave, I've had a modified work schedule that has allowed me to work at home and the office part-time." As to her promotions, Knupp says that "I've never seen any evidence of a glass ceiling. I don't think that I've bumped up against one, either."

That supportive attitude suffuses the Institute. "The flexibility is supported both through Human Resources policies and by individual managers," explains Knupp. "What we try to do for everyone is create the flexibility they need to do things in their lives. That stems from the idea that maintaining a balance is critical to individuals' overall satisfaction with their personal and professional lives."

The team nature of much of the Institute's work helps. "Our strength comes from what we can deliver together," says Knupp. "Team members are able to fill in for each other when there are scheduling conflicts. People feel comfortable taking the time they need because they know there is coverage. Last month, for example, someone with critical information wasn't able to attend an off-site meeting owing to an illness in the family. We were able to bring in a subordinate to cover for the person." Overall, she adds, "we've tried to create a working environment and culture in which people support each other. No one individual feels that the burdens are resting on her or his shoulders."

**"What we try to do ... is create the flexibility they need to do things in their lives. That stems from the idea that maintaining a balance is critical to individuals' overall satisfaction with their personal and professional lives."** Cathy Knupp



To provide more flexibility for its employees, Bristol-Myers Squibb has set up two on-site day care centers and has started to build another. The Pharmaceutical Institute's center, opened last April, has space for 178 children from eight weeks of age upward. It offers a full kindergarten program and a variety of programs for older children during the summer months. "We're very privileged to have it," comments Knupp. "I attended meetings about the center when I was expecting our fifth child. I've been so interested in getting the centers off the ground that I modified the care arrangements I was making for our youngest in order to enroll her in the facility."

Mothers aren't the only users of the new facility. "Just as many working fathers drop their children off and pick them up," says Knupp. Similarly, the Institute's flexible attitude towards family responsibilities applies to more than children. "We recognize that families have other needs, including elder care. As a matter of fact, our policies permit the hiring of spouses, and we are often able to identify employment opportunities for both members of a dual-career couple," says Knupp. The company earns a quid pro quo from its facilities and its flexibility. "We try to use them effectively as a recruiting tool," says Knupp.

"What really enables me to manage this whole area of work-family balance is maintaining a high degree of flexibility when changes of direction pop up," she concludes. "It's important to have a support network. I'm particularly proud that we have people who look out for each other and give each other assistance whether the issue involves work or family." ❧

For further valuable career features, go to [www.scienceonline.org](http://www.scienceonline.org), click on **Science Careers**, then click on **Advice and Perspectives**.





They set out to change the world. Their result:

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The members of the Bristol-Myers Squibb Pharmaceutical Research Institute share one goal—to discover and develop best-in-class, cost-effective medicines that enhance and extend human life. They are part of a global team that's applying frontier technologies—high-throughput screening, applied genomics and robotics to name a few—in the continual pursuit of cures for such diseases as cancer, AIDS, Alzheimer's disease, heart disease, and stroke. And they are making a difference in the lives of people worldwide, every day.

This talented group could work just about anywhere with their skills, but they chose Bristol-Myers Squibb. Why? Besides our reputation as a world leader, we offer a culture that's remarkable in the corporate world. One that's dynamic and values the uniqueness of individuals as it seeks to cultivate the leader in everyone. A culture that emphasizes a healthy balance between work and personal time and has earned us accolades in Working Mother as one of the 100 most family-friendly companies in the U.S.

We are currently undergoing an ambitious expansion plan, with a solid commitment to growth in discovery efforts, facilities and external collaborations. To make this possible, it will take even more dedicated people ready to change the world one discovery at a time—and enjoy new heights of personal satisfaction.

To learn about exciting career opportunities, send your resume to:  
Bristol-Myers Squibb Company  
Pharmaceutical Research Institute  
P.O. Box 4000, Princeton, NJ 08543-4000  
Fax: 609-581-8941

We use resume-scanning technology. Please submit on plain white bond paper using standard type and fonts (no italics, graphics or staples please).



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# Bringing the Art of Science to Life

Bringing the art of science to life is the foundation of Novartis Pharmaceuticals, where we are making significant strides in healthcare solutions. We research, develop, manufacture and market leading innovative drugs used to treat a number of diseases and conditions. We seek to improve people's lives – help strengthen our foundation as a member of our team.

## Functional Genomics

Novartis Pharmaceuticals Corporation's new Functional Genomics Department is dedicated to the identification of novel human disease genes and novel drug targets. Using state-of-the-art techniques such as high-throughput gene expression analysis, novel antisense technologies, proteomics, Transgenic Mice, and Drosophila genetics. We work in partnership with our drug discovery groups to identify new research opportunities and to turn these gene-based discoveries into clinical benefits. We are currently seeking highly motivated, creative individuals to join our Summit, New Jersey operation.

### Research Scientists HB-6582

Become an integral part of our operation carrying out molecular biology experiments to identify genes expressed in specific target tissues or during specific disease processes in animals or humans. You will be involved in generating cDNA libraries, carrying out high throughput gene expression analysis and large scale genetic screens.

To excel in this position, you will need a BS or an MS and at least 2 years' experience in molecular biology research in industry or academics. Individuals with significant experience in molecular biology, mammalian tissue culture, retroviral gene delivery, construction of cDNA libraries, DNA chip analysis and automated molecular biology applications. We are also seeking individuals with experience in Drosophila genetics.

### Postdoctoral Research Fellows HB-6577

We are looking for innovative, dedicated individuals with a Ph.D. and expertise in molecular biology, biochemistry and expression cloning. We would also be interested in those individuals with experience in high throughput molecular biology techniques and experience in model eukaryotic systems. These individuals will be actively involved in the discovery of, and functional validation of, candidate disease genes in Oncology, Arthritis, Neuroscience and Cardiovascular diseases. Our postdoctoral assignments encourage creative thinking and offer ample opportunities for publication and research presentations.

We offer a highly competitive salary and compensation package. For consideration, please forward your resume/curriculum vitae and letter of interest, indicating requisition # on all correspondence, to: R&D Staffing, Novartis Pharmaceuticals Corporation, 556 Morris Ave., Bldg. 133, Room 1029, Summit, NJ 07901; or e-mail: [hrstaff.phusch@pharma.novartis.com](mailto:hrstaff.phusch@pharma.novartis.com). We are an equal opportunity employer. Unfortunately, we will only be able to respond to those candidates who meet our qualifications. Please visit our website at [www.pharma.us.novartis.com](http://www.pharma.us.novartis.com)



## Mayo Clinic Division of Experimental Pathology

Postdoctoral research positions are available to: 1) develop functional assays for BRCA2 missense mutations based on the role of the BRCA2 protein in DNA repair and cell cycle control; 2) characterize a series of candidate oncogenes involved in progression of breast cancer. This will be studied using cell culture and animal models in combination with gene expression analyses.

Applicants should have a Ph.D. with experience in molecular biology, tissue culture, and cell signaling. A highly competitive salary with full benefits is available to motivated candidates. Send a full C.V. with names and addresses of three references to:

**Fergus J. Couch, Ph.D.**  
Division of Experimental Pathology  
Guggenheim 1001A  
Mayo Clinic  
200 First Street SW  
Rochester, MN 55905  
email: [couch.fergus@mayo.edu](mailto:couch.fergus@mayo.edu)

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Upstate Biotechnology Inc. ([www.upstatebiotech.com](http://www.upstatebiotech.com)) is an international leader in providing bioreagent products to academic and industrial cell signaling investigators. We are currently seeking candidates for two positions immediately available in Research and Development.

### Staff Scientist (job code# SS-1)

The position requires a dedicated and creative individual to utilize current and novel technologies to develop innovative bioreagent products. Applicants must have a Ph.D degree in cell signaling with preference given to those with industry or post-doctoral experience. Experience should include a variety of antibody and enzyme assays, protein expression and purification, and immunocytochemistry. A successful candidate will: 1) meet the demanding and dynamic needs of a bioreagent company developing new products; 2) be able to plan, coordinate, implement and achieve research and development goals; 3) be a team player; 4) possess excellent written and verbal skills.

### Post Doctoral Scientist (job code# PD-1)

A two-year postdoctoral position for a recent PhD to investigate and develop novel technologies that will translate into new and innovative bioreagent products and/or novel assays for determining the activation status for cell signaling pathways. As an alternative to company-directed projects, applicants are encouraged to submit self-designed proposals in the areas of: Cell signaling/regulation, Molecular Biology, Biochemistry, Immunology, and Neurobiology. Publication of results in a peer reviewed journal is encouraged.

Upstate Biotechnology offers competitive salaries, exceptional benefits and is located in the beautiful and rural mountain resort town of Lake Placid, NY. Qualified candidates should forward their CV with a cover letter summarizing previous experience, and the names and addresses of 3 references to: Job Code#, Upstate Biotechnology Inc., 10 Old Barn Rd, Lake Placid, NY 12946. Please send all electronic submissions to [deisinger@upstatebiotech.com](mailto:deisinger@upstatebiotech.com). EOE.



# Syntonix

PHARMACEUTICALS, INC.

## Join a Dynamic New Company

Syntonix is a growing, one year old, privately held, biotech company engaged in applied research and development activities involving the delivery of therapeutic proteins across epithelial barriers for the treatment of diseases in a broad range of therapeutic areas. If you have an entrepreneurial spirit and a desire to work as part of a small, interdisciplinary team, this is an ideal opportunity to grow with the company. We are currently seeking highly-motivated, Ph.D. level, Senior Scientists and BS/MS Research Associates for the following positions:

### SENIOR SCIENTISTS

#### Molecular Biologists

Candidates must be familiar with all current methods for gene cloning and protein expression including RT-PCR, cDNA library construction, transfection of mammalian cells and selection/maintenance of transfected mammalian cell lines. Familiarity with characterization of transgenic mice is desirable. Experience with construction and testing of phage display libraries is a plus. (Job Code: MB)

#### Cell Biologists

Candidates must have experience in measuring cellular responses in vitro. Responsibilities will include development of biochemical and cell-based assays such as ELISA, transcytosis assays, cell proliferation assays and receptor binding assays for use in assessing the efficacy of novel therapeutics. (Job Code: CB)

#### Immunologists

We are seeking scientists possessing an in-depth knowledge of Immunology. Familiarity with mechanisms of immunologically-based diseases such as rheumatoid arthritis and multiple sclerosis and a working knowledge of small animal models of immunologic diseases are desirable. Experience with vaccine design and delivery is a plus. (Job Code: IM)

#### Pharmacologist

##### (Pharmacokinetics and Drug Metabolism)

Candidates must be familiar with the assessment of protein bioavailability after oral, nasal and pulmonary delivery. Experience in the analysis of absorption, distribution, metabolism and excretion (ADME) of biotherapeutic proteins is required. Working knowledge of standard analytical techniques, e.g. HPLC and LC/MS is expected. Familiarity with experimentation in both rodent and non-human primate systems is desirable. (Job Code: P)

### Protein Biochemists

The successful candidate will focus on protein structure-based optimization of receptor interaction for the design of improved drug delivery molecules, especially immunoglobulin fusion proteins. Experience with the characterization of protein:protein (Biacore or similar instrumentation) interactions is highly desirable. Ability to purify recombinant proteins from mammalian and other expression systems using a variety of state-of-the-art chromatographic techniques including FPLC, HPLC, affinity and conventional chromatography is required. (Job Code: PB)

### Peptide Chemist

We require a scientist with experience in receptor/ligand binding optimization. The successful candidate will utilize leads developed from protein structure-based studies and phage display libraries to create peptide libraries. Experience in state-of-the-art techniques of solid-phase peptide synthesis and familiarity with high throughput peptide synthesizers is a must. (Job Code: PC)

### RESEARCH ASSOCIATES

#### Analytical Biochemist/Pharmacologist

Position requires a scientist with a background in Pharmacology, Analytical Chemistry or related field familiar with various chromatography techniques such as FPLC, HPLC and column chromatography in addition to protein electrophoresis and enzyme assays. Experience in the analysis of absorption, distribution, metabolism, and excretion (ADME) of biotherapeutic proteins is also desirable. (Job Code: ABP)

#### In Vivo Pharmacologists

The successful candidate will be skilled in the use of small animals for drug testing and pharmacokinetic/pharmacodynamic studies. Responsibilities will include all facets of maintaining a small animal facility and testing novel therapeutic proteins. Prior experience with transgenic animals and the development of relevant animal models of human disease for testing drugs would be a plus. (Job Code: IVP)

#### Cell Biologist/Molecular Biologist

Requirements for these positions include experience in mammalian cell culture and current molecular biology techniques as well as in vitro biochemical and receptor binding assays to assess the pharmacology of novel therapeutics. Familiarity with immunohistochemistry and in situ hybridization is a plus. (Job Code: CBMB)

All Senior Scientist positions require a Ph.D. degree in Immunology, Molecular Biology, Cell Biology, Biochemistry, Pharmacology or a closely related discipline and 1-5 years of relevant experience. Research Associate positions require a B.S. or M.S. in a relevant field of biology with one or more years of experience, preferably in industry.

All candidates interested in expanding their career and becoming an integral team member are invited to submit a detailed resume and letter indicating job code to: Syntonix Pharmaceuticals, Inc., HR Dept. SC, Job Code \_\_, 65 Cummings Park, Woburn, MA 01801; Fax: 781-368-1061; email: [humanresources@syntnrx.com](mailto:humanresources@syntnrx.com). EOE

For additional information, visit our website at: [www.syntnrx.com](http://www.syntnrx.com)

## Growing the Seeds of Technology

Just as a paradigm is an example followed by others, Paradigm Genetics is setting an entirely new standard in next-generation science. Every day, we're working to develop advanced technologies that add unprecedented speed and efficiency to the process of genetic analysis. In doing so, we're transforming the very nature of functional genomics...and creating challenge and opportunity unlike anything you've ever seen. Join us on the leading edge of agriculture and technology, where brilliant innovation—and brilliant possibilities—define the future you deserve.

### Associate Director for Microbial Research

The Microbial Research Group at Paradigm Genetics Inc. is industrializing the process of gene-to-phenotype discovery to identify new opportunities and processes for microbial/fungal biotechnology. Paradigm Genetics and the Microbial Research Group are undergoing considerable expansion and this is an excellent opportunity to join the leadership team of a dynamic, entrepreneurial company in Research Triangle Park, North Carolina.

The Associate Director will coordinate these efforts with the Biochemistry, Informatics, Plant Research and Genomics Groups at Paradigm Genetics, and lead a team of experienced scientists in the Microbial Research Group.

The position calls for a comprehensive understanding of research needs and opportunities in agricultural biotechnology, fermentation and pharmaceutical industries. The position calls for senior research scientists (Ph.D. with 10+ years of experience) with an established reputation for excellence and innovation in microbial/fungal genetics/cell biology/biochemistry. Job # FEB/SCI/261P

### Manager Plant Molecular Biology and Genetics

This key position reports to Keith Davis, Director, Plant Research and represents an important component of the senior plant research management team. A Ph.D. in Molecular Biology, Genetics or Biotechnology and extensive experience in the plant research area is required. At least 5 years of experience in a group leader-like position is preferred, and leadership experience within an industrial setting is an advantage. Responsibilities include supervision of groups involved in high throughput gene discovery, gene cloning, plant transformation, and gene modification systems. In addition, the position is responsible for the development and implementation of novel technologies concerning gene modification and plant transformation systems. Responsible for all aspects of management of our Plant Molecular Biology & Genetics Group, including the development of research plans, monitoring of performance of the research operation, direct supervision of Ph.D. and Master-level personnel, and the establishment of third-party research collaborations. Job # SCI/FEB/262P

This is what you should expect from a world-class employer; a dynamic team environment, excellent growth potential, generous compensation, superior benefits and stock options. And this is where you will find it. Please send resume referencing job code, and salary history to: Paradigm Genetics, Attn: Human Resources, P.O. Box 14528, Research Triangle Park, NC 27709; E-mail: [resumes@paragen.com](mailto:resumes@paragen.com). Resumes must be received by March 3, 2000. No phone calls please. Principals only. EOE

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# SPRL



## LEADERSHIP OPPORTUNITIES IN CAMBRIDGE, MA

Suntory Pharmaceutical Research Laboratories is a newly formed biopharmaceutical company dedicated to the rapid, cost-effective discovery and development of drugs for the treatment of cardiovascular and immunological diseases. We are looking for serious and motivated leaders to join a vibrant, fast-moving, efficient, opportunity-driven enterprise with a single-minded passion for the discovery of innovative therapies.

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The inaugural Directors will play a key role in establishing their departments and initiating new discovery programs.

Industrial and Biotechnology drug discovery experience is required in areas of cloning, expression, protein purification and characterization, biochemical and cell-based assay development, combinatorial and medicinal chemistry, macromolecular crystallography, computational chemistry, and immune response regulation.

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Quantum Dot Corporation is revolutionizing biological assays via its proprietary quantum dot technology. Quantum dot nanocrystals (Qdots™) are nanometer scale "LED" labels that have vast advantages in multiplexing, detection, and sensitivity versus dye molecules. We are looking for the best and the brightest scientists to work with us in developing these exciting new materials.

**Scientist/Sr. Scientist – Molecular/Cellular Biologist, HTS**  
This position requires experience in FRET assays and familiarity with a range of nucleic acid, protein and cellular assays. A PhD in molecular or cellular biology or equivalent is desired to develop HTS assays, many in the context of external collaborations. Creative thinking, critical problem solving, and good communication and execution skills are essential. Industrial experience is strongly desired.

**Scientist/Sr. Scientist – Protein Biologist/Biochemist**  
A thorough knowledge of protein chemistry and function is required. Experience with labeling is essential. Familiarity with enzymes and/or assay development in an industrial setting is a plus. This position requires the ability to maintain productive external collaborations, creative thinking, critical problem solving, and good communication and execution skills. Motivated candidates possessing a Ph.D. or equivalent with relevant experience are encouraged to apply.

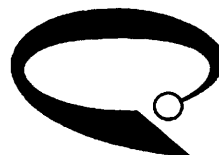
**Research Associate - Biology**  
This position requires working knowledge of multiple cellular and molecular techniques. Good communication and record keeping skills also are a must. Motivated candidates possessing BS/MS with 2 or more years of laboratory experience are encouraged to apply. Previous industry experience preferred, but not required.

**Scientist – Materials Characterization/ Analytical Methods Development**  
This position entails exploring novel methods to characterize quantum dot nanoparticles. Our goal is to better understand fundamental attributes of these particles, as well as to create new analytical methods useful in their development and manufacture. A Ph.D. in materials chemistry (physical, inorganic, etc.), materials science or equivalent is required. The scientist will carry out studies of optical, surface, and colloidal properties of these materials and their precursors. He or she will be a creative problem-solver, a good communicator, and be able to interact effectively with manufacturing and external consultants. Industrial experience is strongly desired.

**Scientist/Senior Scientist - Polymer Microsphere Chemist**  
This position requires knowledge of polymer swelling, modification, diffusion through polymers, and polymer microsphere synthesis. Experience in emulsion polymerization is also desirable. A background in polymer chemistry or engineering and industrial experience is required for this position. The ability to develop manufacturable processes and to manage projects with partners is essential.

**Scientist – Bioorganic/Bioconjugation**  
A thorough knowledge of techniques for conjugation of proteins and nucleic acids to surfaces and other biomolecules is required. Experience with common linking agents, passive adsorption, PEGylation, and biomacromolecules is essential, and with colloidal systems is desirable. Motivated candidates possessing a Ph.D. or equivalent with relevant experience are encouraged to apply.

As part of the Quantum Dot's dynamic team, our full time employees receive a competitive salary and benefits package including stock options. For consideration, please send your resume to: Quantum Dot Corporation, 4030 Fabian Way, Palo Alto, CA 94303. Email: [jobs@qdots.com](mailto:jobs@qdots.com). Quantum Dot is an equal opportunity employer.



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## Women's Health Research/ Biology of Sex & Gender Differences

The University of Wisconsin-Madison is expanding interdisciplinary research into the biological underpinnings of sex and gender differences in health and disease. Such investigations are fundamental to understanding gender differences in disease epidemiology and health outcomes as well as the overall control mechanisms of physiologic processes in both sexes.

We seek tenure-track faculty at any rank to form the nucleus of a synergistic interdisciplinary research group in Women's Health Research/Biology of Sex and Gender Differences. Applications are invited from candidates who are using molecular, cellular, genetic, epidemiological, translational, or behavioral approaches to study sex and gender differences in a variety of areas. These areas might include estrogen action, brain function, cancer, bone, cardiovascular systems, drug response, symptom experience or health-related behaviors. Faculty appointments could be in any school or college and in one or more appropriate departments with an appointment in the Center for Women's Health and Women's Health Research.

Applications should include a curriculum vitae, a statement of research interests, teaching experience, career goals, and the names and addresses of three references. Send materials to: Molly Carnes, M.D., Chair, Biology of Sex and Gender Differences Search Committee, University of Wisconsin-Madison, c/o Margie Martin, UW Medical School Administration, 1300 University Ave., Madison, WI 53706. Phone: (608) 262-7705 Fax: (608) 265-8796 E-mail: [mlcarnes@facstaff.wisc.edu](mailto:mlcarnes@facstaff.wisc.edu) OR [msmartin@facstaff.wisc.edu](mailto:msmartin@facstaff.wisc.edu). University of Wisconsin-Madison web home page: <http://www.wisc.edu/>

The University of Wisconsin is an AA/EEO employer. Women and minorities are encouraged to apply. Confidentiality may be requested in writing. Finalists cannot be guaranteed confidentiality.



UNIVERSITY OF  
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## Postdoctoral Position

University of Connecticut Health Center

A Postdoctoral position is available to study the mechanisms of alternative pre-mRNA splicing in humans, identify new splicing regulators, and develop a novel system to control gene expression in living cells by regulating alternative splicing.

Interested, motivated individuals with experience in biochemistry, molecular biology (analysis of proteins and DNA/RNA), and tissue culture should send a CV, description of research experience and interests, and three letters of reference to Dr. Brenton R. Graveley, Department of Genetics and Developmental Biology ... or email: [graveley@neuron.uchc.edu](mailto:graveley@neuron.uchc.edu)



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STOWERS INSTITUTE<sup>SM</sup>  
FOR MEDICAL RESEARCH

### Postdoctoral Fellowships

Postdoctoral fellowship opportunities are available at the Stowers Institute for Medical Research, which will open its 530,000-square-foot, state-of-the-art research facilities in Kansas City, Missouri, in November 2000. Stowers Institute scientists will conduct broad based, interdisciplinary research directed at understanding the basic molecular, cellular and genetic pathways that control how multicellular organisms are formed and patterned. Our aim is to identify and characterize fundamental mechanisms that are important not only for normal development and life's processes, but also those associated with human disease. This will encompass areas such as immunology, neurobiology, developmental biology, stem cells, cancer, leukemia and genetics. To enhance and promote this research approach, the Institute will develop and use advanced technologies and provide advanced new research facilities, including a comparative genomics laboratory, and state-of-the-art animal, high-throughput sequencing, FACS and imaging facilities.

#### Fellowships are available in the following laboratories:

##### Robert Krumlauf, Ph.D.- Scientific Director

Analysis of molecular pathways that regulate how the mammalian head, brain and nervous system are built, using a variety of vertebrate model systems.

##### James Coffman, Ph.D.

Biochemical characterization and transcriptional analysis of gene expression to regulatory circuitry underlying early development of the sea urchin embryo.

##### Linheng Li, Ph.D.

Investigation of regulatory networks controlling T-cell development in the immune system and its relationship to oncogenesis using microarray, bioinformatic and animal model approaches.

##### Leanne Wiedemann, Ph.D.

Investigation of the molecular events associated with leukemia and the design of strategies for diagnosis and treatment using animal models.

##### Ting Xie, Ph.D.

Genetic and molecular analysis of stem cells and germ cell development in *Drosophila* and mouse.

Selected candidates will become part of an elite team of scientists and professionals to create a world-class center for scientific research. Candidates who utilize or envision system-wide approaches to the molecular biology of the genome are encouraged to apply.

Candidates must hold a M.D., Ph.D., or both. Initial appointments are made for three years, renewable for a total of four years. The average starting salary is \$35,000 dependent upon experience. Candidates should submit a CV, a statement of current research interests and future plans, and three letters of reference, indicating Job Code Sci6300, to the attention of the appropriate lab head, at the following address:

Stowers Institute for Medical Research  
1000 E. 50th St.  
Kansas City, Missouri 64110.

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# MAKING A WORLD OF DIFFERENCE IN BIOTECHNOLOGY!

As a global leader in the biotechnology arena, Genencor International develops and markets innovative enzymes that are highly efficient and cost-effective. Currently, we are seeking a bioinformatics scientist to contribute to our exciting research efforts at our state-of-the-art R&D facility in Palo Alto.

## SCIENTIST II - Bioinformatics

You will participate on a small and dynamic bioinformatics team working closely with "wet-lab" biological scientists. This work will allow you to put your stamp on a biotechnology company. Your primary focus will be supporting and maintaining our sophisticated in-house organism database, developing sequence analysis tools, and assuming Web development responsibilities. You will also be expected to bring in-house and develop novel data analysis tools. You should have experience with Oracle; knowledge of the following would be advantageous: advanced data mining techniques, gene family classification, DNA array expression and data processing. You should also be proficient in one or more of the following languages: Perl, C/C++, Java or similar, with extensive experience in a Unix environment. In addition, you should possess a PhD or equivalent in the biological sciences, Computer Science, or related field, and 3+ years relevant bioinformatics experience. As your work will entail substantial interaction with bioinformatics personnel and biological scientists from a variety of areas, it is paramount that you be able to excel in an interdisciplinary team environment.

We offer a competitive compensation and benefits package, including 3 weeks of paid vacation, a generous 401(k) matching plan and a retirement plan. For consideration, please submit your resume/c.v., indicating Job Code PA44R99, to: Genencor International, Inc., 925 Page Mill Road, Palo Alto, CA 94304-1013, Fax: (650) 845-6503, email: hr@genencor.com. Background checks will be conducted. An equal opportunity employer M/F/D/V.



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The  
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## POSTDOCTORAL POSITION

A postdoctoral position is available in Dr. Paul A. Slesinger's laboratory at The Salk Institute. We are examining the structure and function of the G protein-gated inwardly rectifying K<sup>+</sup> channels (GIRK) and serotonin-gated ion channels (5-HT<sub>3</sub>). We utilize a combination of electrophysiological, biochemical, and molecular genetic techniques to study the ligand-binding domain, pore structure, and membrane topology of these ion channels. Candidates that have a Ph.D. or MD/Ph.D., some experience with electrophysiology, and would like to learn molecular biological or biochemical techniques are encouraged to apply.

Applicants should send curriculum vitae, statement of research objectives, and names of three references to:

**Dr. Paul A. Slesinger**  
The Salk Institute  
10010 N. Torrey Pines Road  
La Jolla, CA 92037  
e-mail: [alesinger@salk.edu](mailto:alesinger@salk.edu)

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[www.salk.edu](http://www.salk.edu)



## MAYO CLINIC POSTDOCTORAL POSITIONS

Positions available at the computer-aided molecular design (CAMD) lab for postdoctoral fellows to develop novel angiogenesis inhibitors and to study chromophores of green fluorescent proteins using ab initio/molecular mechanics calculations, spectroscopic analyses, and organic syntheses. Applicants must have strong total-synthesis experience and/or quantum mechanics and molecular mechanics background. Preference will be given to applicants with their own fellowships or with experience of Beowulf-class computer systems. The CAMD lab has records of developing biologically active molecules and novel methods for zinc protein molecular dynamics simulations and for virtual screen of chemical databases. It has state-of-the-art synthetic equipment, a cluster of dedicated Origin 2000 and 200 servers (16xR10K, 8xR12K, 200Gb disk, and 3Gb memory), and four Octane graphics. Recent patents and publications by the CAMD lab are available from <ftp.mayo.edu> (name: anonymous, cd pub/camd). Applications including curriculum vitae, two relevant papers, and two recommendation letters should be sent to:

**Yuan-Ping Pang, Ph.D.**  
Computer-Aided Molecular Design  
Mayo Clinic  
Guggenheim 711A  
200 First Street SW  
Rochester, MN 55905  
e-mail: [pang@mayo.edu](mailto:pang@mayo.edu)

*Mayo Foundation is an affirmative action and equal opportunity employer and educator.*

## Biotechnology

The Genomics Institute of the Novartis Research Foundation (GNF), located in La Jolla, CA, is developing and applying novel technologies for genomewide functional characterization.

## POSTDOCTORAL ASSOCIATES

A postdoctoral position is available immediately to study the molecular mechanisms involved in brain aging. Research projects involve (1) gene expression array analysis of aged brain (2) in vivo analysis of age-associated genes using transgenic and/or murine knockout models. Candidates should have a solid background in molecular biology. Individuals with additional experience in aging and/or neurodegenerative studies are especially encouraged to apply.

GNF offers an excellent compensation and benefits package, including a 401(k) plan. For immediate and confidential consideration, please send curriculum vitae and three references to: Dr. Yinghe Hu, Genomics Institute of the Novartis Research Foundation, 3115 Merryfield Row, Suite 200, San Diego, CA 92121-1102; e-mail: [yinghe.hu@gnf.org](mailto:yinghe.hu@gnf.org) Fax: (858) 784-8995. AA/EOE.

 **NOVARTIS**



# 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 Positions
- Research Specialists/Technicians
- Research Secretaries

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- Managers
- Administrative Assistants
- Purchasing Coordinators
- Receiving Clerks

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## Postdoctoral Position

*University of Connecticut Health Center*

Postdoctoral position available to study protein-protein interactions in signal transduction. Established investigator moving to new laboratory at the University of Connecticut Health Center has NIH funded postdoctoral position beginning 7/1/00. Projects include studies on the role of binding partners for the Nck SH2/SH3 adaptor in signaling, and development of novel experimental tools to identify functionally important protein-protein interactions. Applicants familiar with techniques of protein biochemistry, molecular biology, and cell culture are encouraged to apply.

Please submit CV, research interests, and three letters of recommendation to *Dr. Bruce J. Mayer, Department of Genetics and Developmental Biology.*



**University of Connecticut  
Health Center**

263 Farmington Avenue, MC 3301  
Farmington, CT 06030-3301

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## NATIONAL INSTITUTES OF HEALTH Website Project Manager

The National Institute of Neurological Disorders and Stroke (NINDS), part of the National Institutes of Health, is seeking an energetic team player to serve in its Director's office as the NINDS Website Project Manager. This is a unique opportunity to manage ongoing strategic development of cutting-edge websites as tools for communication, collaboration, and coordination. The selected candidate will assist NINDS in developing and maintaining its public website and intranet to support its mission elements. Key responsibilities will include overseeing the continuing development of NINDS websites in a manner consistent with its vision and strategy; interacting with technical, scientific, and managerial staff, as well as outside researchers and the general public, to ensure that content is fresh and relevant to website audiences; coordinating development of new guidelines and standards for the website; promoting a user-driven approach in website development; and managing contracts. Applicants should have demonstrated project management and communication skills, strategic vision, and ability to persuade/negotiate. Understanding of biomedicine and/or research cultures and organizations is a plus. Salary range \$60,890 to \$93,537, depending on qualifications. US citizenship required.

**For application by fax call (800) 728-JOBS,  
request FAX# 5003. To obtain by mail, call NINDS  
Personnel Office (301) 496-6334.**

*Applications must be postmarked by 3/17/00.*

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# CV THERAPEUTICS

## RESEARCH SCIENTIST

CV Therapeutics is engaged in the discovery and development of novel small molecule drugs for the treatment of chronic cardiovascular diseases. By applying the biomedical discipline of molecular cardiology to delineate mechanisms of cardiovascular disease, we are identifying new targets for drug discovery. We seek an experienced research professional to join the Department of Discovery Research led by Richard Lawn, PhD.

This position will conduct creative research involving cholesterol transport and gene expression analysis, paving the way for novel drug discoveries to reduce the risk of heart disease. The research programs build upon CVT discoveries made through the identification of gene defects in patients with Tangier disease, which causes the defective efflux of cholesterol from cells, and from discoveries made through gene expression profiling of cardiovascular disease models. Laboratory experience in molecular, cell or small animal biology is required. Scientists with advanced degrees or considerable research associate training will be considered.

CV Therapeutics provides an exciting biotechnology environment combined with cutting-edge research, skilled development and clinical expertise. We offer a competitive salary and excellent benefits package, which includes stock options and an employee stock purchase plan. To learn more, please send resumes to: HR, CV Therapeutics, 3172 Porter Drive, Palo Alto, CA 94304, Fax: (650) 858-0287. No phone calls, please. We are an equal opportunity employer.



## Pharmacologist

Your responsibilities will include reviewing and providing technical evaluations of pharmacology data for licensing candidates and investigator-solicited proposals submitted to marketing. You will provide technical and budgetary input for project plans and manage operational aspects of studies. Other challenges will include publishing pharmacology data for marketed drugs and those in development, preparing regulatory submissions for pharmacology disciplines, including IB, IND, and NDA's. You will design and conduct pharmacology studies for marketing and line extensions.

We require a Ph.D. in Pharmacology and 3-5 years' experience in a pharmaceutical, biotechnology, CRO or academic setting, the ability to work independently on multiple projects and effective communication skills. Experience in CNS and/or inflammatory diseases is preferred.

To be considered for part of our team, send your resume, in confidence, with salary requirements to: **Human Resources Department, Code MS-SCI, Forest Laboratories, Inc., 909 Third Ave., New York, NY 10022-4731; Fax: 212-750-9152; staffing@frx.com**  
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## ASSISTANT PROFESSOR DEPARTMENT OF CHEMISTRY BALL STATE UNIVERSITY MUNCIE, INDIANA

A tenure-track position is available August 18, 2000. Responsibilities of the position include: teaching undergraduate and graduate classes in an area of biochemistry as well as teaching general chemistry; development of an active research program involving undergraduate and master's level students. **Minimum qualifications:** Ph.D. in biochemistry or chemistry by August 18, 2000; evidence of teaching potential; evidence of research potential. **Preferred qualifications:** postdoctoral research experience; teaching experience at the collegiate level, e.g., teaching assistant, instructor; research interests that have a focus related to biochemistry and complement the department's existing faculty research. Send letter of application, vita, three original letters of reference, undergraduate and graduate transcripts, and a description of proposed research to: **Dr. Lynn Sousa, Chairperson, Department of Chemistry, Ball State University, Muncie, IN 47306.** Review of applications will begin immediately and will continue until the position is filled. ([www.bsue.edu](http://www.bsue.edu))

*Ball State University is an equal opportunity, affirmative action employer and is strongly and actively committed to diversity within its community.*

## Research Molecular Pathologist

Bayer Biotechnology, in Berkeley, CA is the worldwide Biotechnology Center for Bayer Corporation's Pharmaceutical Division.

The Biotechnology Center is responsible for the discovery, research, and preclinical development of recombinant protein drugs and gene-based therapies for asthma, cancer, chronic obstructive pulmonary disease, diabetes mellitus, multiple sclerosis and osteoporosis. The Preclinical Development group is actively involved in the development of new and existing protein drugs. The group represents one of the premier drug development groups in the Biotech industry and possesses cutting-edge facilities housed at the Bayer site in Berkeley. Currently we are seeking a Research Molecular Pathologist to join our dynamic team.

This position requires a DVM or VMD degree from an accredited college of veterinary medicine and a PhD in pathology, 4+ years of relevant experience, and certification or eligibility for certification by the American College of Veterinary Pathologists. Demonstrated skills in immunohistochemistry, In situ hybridization and PCR technology in addition to routine histopathological expertise are required for this position. Experience with quantitative morphometric techniques is also desirable.

Responsibilities include the support of late-stage research and development of biotechnology therapeutic agents. The successful candidate must be able to contribute effectively as a member of multidisciplinary project teams to identify and define appropriate animal models and to design, conduct and interpret studies to characterize the efficacy and safety of these therapeutics. Excellent verbal and written communication skills are essential.

Bayer offers an attractive compensation and benefits package. Relocation benefits are available for this position. For immediate consideration, please forward your CV and a cover letter via e-mail to [bayerpharm@home.com](mailto:bayerpharm@home.com) or via fax (510) 705-7874; or send to: Bayer Corporation, Pharmaceutical Division, P.O. Box 9060, Gaithersburg, MD 20989. Fax: (888) 805-7474. E-mail [bayerpharma@alexus.com](mailto:bayerpharma@alexus.com). Please indicate position of interest on all correspondence. No agencies or phone calls please. For more information on Bayer, search: <http://www.bayerus.com>

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DEPUTY DIVISION DIRECTOR  
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BIOSCIENCES  
NATIONAL SCIENCE FOUNDATION  
Arlington, VA**

NSF's Directorate for Biological Sciences seeks candidates for two leadership positions: Director, Division of Integrative Biology and Neuroscience (EP 00-7) and Deputy Director, Division of Molecular and Cellular Biosciences (EP 00-8). Information about the IBN and MCB divisions is found on the NSF Home Page ([www.nsf.gov/bio/start.htm](http://www.nsf.gov/bio/start.htm)).

Appointment to these Federal Senior Executive Service positions may be (a) on a 2-to-3 year limited term basis in the Federal service, with a salary range extending to \$130,200 for the Division Director position and \$128,825 for the Deputy position or (b) on assignment under Intergovernmental Personnel Act (IPA) provisions. Applicants must have a Ph.D. or professional experience in a relevant disciplinary field, substantial research administration experience, and demonstrated leadership skills.

Announcements, with position requirements and application procedures, may be obtained from NSF's Home Page ([www.nsf.gov/home/chart/work.htm#hrm](http://www.nsf.gov/home/chart/work.htm#hrm)) or by calling NSF's HR Division on 703-306-0755. Hearing impaired individuals may call TDD 703-306-0189. Consideration of applications is expected to begin in late March.

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**THE DONALD DANFORTH PLANT SCIENCE CENTER  
IN ST. LOUIS, MISSOURI ANNOUNCES  
OPPORTUNITIES FOR POSITIONS IN  
STRUCTURAL BIOLOGY AND BIOCHEMISTRY**

**ROGER N. BEACHY, PH.D.  
PRESIDENT**

**DONALD DANFORTH  
PLANT SCIENCE CENTER**

The new Donald Danforth Plant Science Center located in St. Louis is soliciting applications from outstanding candidates in the fields of X-ray crystallography, NMR spectroscopy, cryo electron microscopy and biochemistry. Successful candidates need not have previously worked on plant related problems, but must have a willingness to do so. Appointments at all levels will be considered, but for the X-ray position, preference will be given to candidates at the Associate or Full Professor levels with experience in biochemistry and/or an interest in structural genomics. In the field of cryo electron microscopy, the successful candidate will be interested in solving the structure of higher order aggregates, and in determining the low resolution structure of membrane proteins. In the field of biochemistry, areas of interest include metabolic and signaling processes in plants, and plant functional genomics. Emphasis is placed on interdisciplinary research and a strong willingness to tackle cutting edge problems. A strong start-up package will be provided.

Please send your curriculum vitae and four letters of reference to: **Admission Committee/Str-Bch, Ms. Billie Broeker, Human Resources, Donald Danforth Plant Science Center, 7425 Forsyth, Box 1098, St. Louis, Missouri 63105.**

*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.*

Visit our website at [www.danforthcenter.org](http://www.danforthcenter.org).

**POSTDOCTORAL FELLOW/  
VISITING SCIENTIST**

**National Cancer Institute & Biogen, Inc.**

The NCI in collaboration with Biogen, Inc. located in Cambridge, Massachusetts, is seeking a Postdoctoral Fellow/Visiting Scientist to work on a project which will focus on identification and mechanism of action of a mammary gland morphogen and its receptor to determine the role of this growth factor during development and in breast cancer disease. The NCI fellow will work in collaboration with Biogen scientists and Dr. David Salomon (NCI) at Cambridge, MA. Two year fellowship: \$35,000 yr. 1, \$37,000 yr. 2; plus benefits and travel. Requires PhD in Cell Biology/Biochemistry or related areas, as well as experience in cell signaling with cytokines or growth factors.

**For consideration, please forward your curriculum vitae to Dr. Michele Sanicola ([michele\\_sanicola@biogen.com](mailto:michele_sanicola@biogen.com)); 14 Cambridge Center, Cambridge, MA 02142 or fax (617) 679-2546. NCI is an Equal Opportunity/Affirmative Action Employer.**

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**Postdoctoral Fellowships**

The Nemours Research Program at the Alfred I. duPont Hospital for Children presently has 3 vacancies for Postdoctoral Fellowships.

**Enzymology**

Two grant-funded positions are available in Enzymology to study the trafficking of proteases in cellular organelles and expression of novel proteases during development. Experience in protein chemistry, cell biology or molecular biology and excellent communication skills required. Send CV, summary of research interests, and names and addresses of 3 references to **Robert W. Mason, Ph.D., Enzymology Laboratory, Research Department, Alfred I. duPont Hospital for Children, P.O. Box 269, Wilmington, DE 19899. Fax: (302) 651-6724. E-mail: [rmason@nemours.org](mailto:rmason@nemours.org).**

**Bone and Cartilage  
Research Laboratory**

An additional postdoctoral position is available in the Bone and Cartilage Research Laboratory to study molecular aspects regulating extracellular matrix biosynthesis and degradation in arthritis. This NIH-funded research project involves novel approaches to the study of cartilage degradation by MRI. The applicant should have a strong background in molecular biology and biochemistry. Experience in immunohistochemistry and chondrocyte biology would be desirable. Send/fax CV, summary of research interests, and names and addresses of 3 references to **George R. Dodge, Ph.D., Director of Orthopedic Research, Research Department, Alfred I. duPont Hospital for Children, P.O. Box 269, Wilmington, DE 19899. Fax: (302) 651-6724.**

The Alfred I. duPont Hospital for Children is located on a 300-acre estate with a park-like setting in Wilmington, Delaware. We offer the cultural and professional advantages of larger cities given our convenient location within 30 minutes from downtown Philadelphia, 2.5 hours from Washington, D.C., and 3 hours from New York City. We offer an excellent salary & benefits package and on-site day care. EOE, M/F.

**ALFRED I.  
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*PRAECIS' mission is to discover, develop and commercialize pharmaceuticals through integration of proprietary combinatorial technologies and high-throughput screening capabilities. We are a biopharmaceutical company involved in innovative research in Prostate Cancer, Endometriosis, Alzheimer's Disease and Growth Factor Biology. Phase III trials for Prostate Cancer and Phase II trials for Endometriosis are ongoing.*

### Scientist - Peptide Discovery

We are looking for a motivated Ph.D. level scientist with 2+ years' post doctoral experience to join the Peptide Discovery department. Work will involve the use of phage display technology to select ligands from peptide libraries against a wide variety of pharmacologically important targets. Requires extensive use of molecular biology in the generation of both random peptide libraries and follow-up mutagenesis libraries. You will also be involved in configuring and running a variety of cell and protein-based biological assays on synthetic peptides and their analogues. Desired skills include molecular biology, phage display peptide library construction, phage display selection methods, and mammalian cell culture. An understanding of peptide chemistry, configuration of binding assays, protein expression/ purification, as well as supervisory experience helpful.

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## Pioneering Mitochondrial Medicine

MitoKor, an early stage discovery and development company involved in the diagnoses and treatment of late onset degenerative diseases, is actively seeking enthusiastic and creative individuals who enjoy working in a team environment. We offer the following career opportunities:

- **Scientist/Senior Scientist**

You will work as a member of a research team studying mitochondrial molecular targets for a type II diabetes mellitus drug discovery program. You will participate in discovery, validation, and development of novel drug discovery targets in *in vitro* and cell culture models. These projects will integrate expertise in cell biology and basic metabolism.

The ideal candidate for this position has a Ph.D. in biological/biochemical sciences with at least two years' postdoctoral experience. Protein chemistry experience desired; cell culture, protein electrophoresis, and eucaryotic protein expression experience helpful.

- **Scientist/Senior Scientist**

Working with an existing group that studies the role of mitochondria in the pathogenesis of type II diabetes mellitus, you will establish cellular and islet models to study the role of mitochondrial functions in insulin secretion. Duties will include identifying novel molecular targets for drug discovery, as well as screening and characterizing small molecule drug candidates for type II diabetes mellitus.

The ideal candidate for this position has an MD, Ph.D. or MD/Ph.D. with two or more years' postdoctoral experience. Specific experience in insulin secretion, insulin action, and/or metabolic abnormalities in NIDDM preferred. Hands-on experience with isolated rodent islets required. Must have experience with cell culture, cell biology, and basic biochemical and enzymatic techniques. Basic molecular biology skills helpful.

In addition to an excellent compensation and benefits package, including 401(k) and stock options, we offer an exceptional work environment and the opportunity to work with a team of people dedicated to making MitoKor a great place to work. For immediate consideration, please e-mail, send or fax your resume to: 11494 Sorrento Valley Road, San Diego, CA 92121 Fax (858) 672-3429 email: [hr@mitokor.com](mailto:hr@mitokor.com) EOE/MF/D/V

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UNIVERSITY OF CALIFORNIA  
SANTA CRUZ

**MARINE MAMMAL/  
SEABIRD BIOLOGY**

**ASSISTANT PROFESSOR**

<http://www.biology.ucsc>

The Department of Biology at the University of California, Santa Cruz invites applications for a tenure-track position at the level of Assistant Professor. We seek a biologist who will augment research strengths of existing faculty and who will apply modern experimental approaches in the study of the biology of marine mammals and/or seabirds. Areas of interest include but are not limited to physiology, ecology, population biology, genetics, bioacoustics, and functional morphology. We especially encourage applicants who are field oriented and whose research examines marine mammals or birds in the perspective of the marine environment such as the interface between behavior and physiology, life history patterns, functional anatomy, oceanography or ecology. We expect the applicant to be able to take advantage of the extraordinary marine environments of Central California. Laboratory space will be provided in a newly constructed research facility located on our 2000-acre campus at the edge of a redwood forest overlooking Monterey bay. The successful candidate will be expected to establish an active, externally funded research program, participate in graduate and undergraduate training in an area appropriate to their background, and utilize the Ano Nuevo Reserve site and serve as a liaison with its governing board.

UCSC is committed to the development of strong programs in ecology, physiology, and evolution. Besides the Biology Department, colleagues can be found in allied programs in Ocean Sciences, Earth Sciences, Environmental Studies, the Institute of Marine Sciences and the Predatory Bird Research Group. The successful candidate will also be expected to participate in the newly created Center for the Dynamics and Evolution of the Land-Sea Interface.

**MINIMUM QUALIFICATIONS:** Ph.D. or equivalent in Biology or a related field, and achievements in or demonstrated potential for university research and teaching.

**POSITION AVAILABLE:** Fall 2000, contingent upon availability of funding.

**APPLY TO:** Applicants should submit a curriculum vitae, brief description of research and teaching interests, copies of reprints, and arrange for three confidential letters of recommendation to be sent to:

Marine Mammal/Seabird Search  
Department of Biology  
A308 Earth & Marine Sciences  
University of California  
Santa Cruz, CA 95064

Please refer to Provision #524 in your reply.

**CLOSING DATE:** Applications received after February 28, 2000 may not be considered. The original deadline has been extended; candidates who applied to the December 17, 1999 deadline are still under consideration and do not need to reapply.

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is an equal opportunity employer.*





The University of Tennessee, Knoxville–Oak Ridge National Laboratory

## Genome Science and Technology Graduate Program

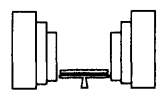
The new Genome Science and Technology (*GST*) Graduate Program is designed to focus on developments in the biological and computational sciences that stem from genome sequencing efforts. The knowledge of complete genomes is revolutionizing the biological sciences, leading to new discoveries in comparative genomics, the health sciences, and environmental biology. *GST* students will be trained in emerging areas of genomics, structural biology, proteomics, computational biology/bioinformatics, and bioanalytical technologies.

The *GST* program takes advantage of the faculty, facilities, and research programs at The University of Tennessee, Knoxville and the Oak Ridge National Laboratory. This novel program combines an academic environment with the team-oriented approach to large research initiatives at the national laboratory. Faculty members at the two campuses have expertise in cutting-edge research utilizing mammalian genetics and mutagenesis, spectroscopy, high field NMR, x-ray crystallography, computational modeling, mass spectrometry, neutron scattering, and microarray technology. Various biological model systems are investigated, featuring the Oak Ridge National Laboratory Mouse Genetics Research Facility, one of the world's largest resources for studies in mouse genetics and mutagenesis for functional genomics.

*We are seeking outstanding students with backgrounds in the biological, physical or computational sciences. Graduate student stipends are \$18,000 with full tuition waiver.*

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**Graduate Program in Genome Science and Technology**  
**Dr. Jeffrey M. Becker, Director ([jbecker@utk.edu](mailto:jbecker@utk.edu))**  
 1060 Commerce Park  
 Oak Ridge, TN 37830-8026

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**The  
Salk Institute**

### POSTDOCTORAL POSITIONS IN NEURAL DEVELOPMENT AND FUNCTION

Positions are available to study signaling pathways in neural development and function via genetic (both null and conditional mutations), neuroanatomical and biochemical approaches. Current interests include the role of neuregulins, agrins, neurotrophins, and neurotransmitters/neuropeptides, and the interplay of some of these pathways in synapse formation, neuronal and glial development, and neuroendocrine development and function (Nature 378, 394-398; Neuron 20, 1093-1102; Neuron 22, 273-283, PNAS 97, 1299-1304; Nature Genetics 24, Mar. issue, in press). A doctoral level degree is required and a strong background in neuroanatomy, neurobiology, signal transduction, or cell biology is preferred.

Applicants should send curriculum vitae, statement of research interests and experience, and names of three references to:

**Dr. Kuo-Fen Lee**  
**The Salk Institute**  
 10010 N. Torrey Pines Road  
 La Jolla, CA 92037  
 e-mail: [klee@salk.edu](mailto:klee@salk.edu)

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### ANNOUNCEMENTS



## NATIONAL INSTITUTES OF HEALTH UNDERGRADUATE SCHOLARSHIP PROGRAM

**Undergraduates can train – and be mentored – at the cutting edge of biomedical research while receiving scholarship support.**

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

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

For each award year, scholars work 10 weeks (with salary/benefits) in our research laboratories in Bethesda, MD. They are assigned mentors, participate in developmental and science enrichment seminars, and are provided with housing and transportation. After graduation, they work 1 year of full-time employment at NIH for each year of scholarship award.

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- Are committed to a career in biomedical research;
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- Are enrolled or accepted for enrollment as full-time students at a qualified accredited institution.

### FOR MORE INFORMATION, CONTACT THE UGSP AT:

- Internet: <http://ugsp.info.nih.gov>
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## POSITIONS OPEN

### CORNELL UNIVERSITY WEILL MEDICAL COLLEGE

As part of a major enhancement of biomedical research programs and laboratory facilities, Weill Medical College of Cornell University (formerly known as Cornell University Medical College) has established a Program in Persistent Infections within a broad initiative in genetic medicine. We are especially interested in candidates who wish to pursue molecular, genetic, or immunologic approaches to microbial physiology or host-pathogen interactions in such diseases as malaria and hepatitis C to complement new recruits studying *Mycobacterium tuberculosis* and HIV. 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 should have Ph.D. or M.D. degrees. Appointment is anticipated in the Department of Microbiology and Immunology, chaired by **Carl Nathan, M.D.**, as well as the Program in Genetic Medicine; alternative or additional appointments will be considered. Recruited faculty will enjoy generous start-up support and occupy new laboratories. Recruits may participate in the Graduate School of Medical Sciences, comprised of faculty from the Weill Medical College and the Sloan-Kettering Institute, and in the Tri-Institutional M.D.-Ph.D. Program, comprised of faculty from the Weill Medical College, the Sloan-Kettering Institute, and The Rockefeller University. Applicants should send a curriculum vitae, statement of research interests, and three letters of recommendation to: **Bernadette M. Mosellie, Genetic Medicine Recruitment Committee (CN), Box #27, Weill Medical College of Cornell University, 1300 York Avenue, New York, NY 10021.** *Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.*

### FACULTY POSITION IN BIOINFORMATICS EMORY UNIVERSITY

As part of an institutional initiative, a multidisciplinary group of investigators actively involved in microarray-based expression profiling systems is seeking a highly motivated individual with primary skills in the area of bioinformatics. The successful candidate will work directly with biomedical scientists in data mining and data curation (Web-enhanced and distributed databases) stemming from multiple functional genomic projects, as well as provide support for new projects requiring bioinformatic input. There will be excellent compensation and opportunities for active independent research. The candidate should have Doctoral-level training in bioinformatics and preferably a background of general and molecular biology, as well as excellent communication and organization skills.

Please submit letter of application, curriculum vitae, and the names and addresses of three professional references to: **Dr. Andy Neish, Emory University, Pathology and Laboratory Medicine, EUH-H-185, Atlanta, GA 30322.** *An Equal Opportunity/Affirmative Action Employer.*

**VICE PRESIDENT OF OPERATIONS:** Executive-level Senior Operations position for candidate with strong managerial and leadership skills. Reporting directly to the President and Chief Executive Officer, you will be responsible for the direction of primary multifunctional areas in manufacturing, process development, engineering, validation, facilities, quality systems, materials management, and purchasing. B.S. in science engineering with over 10 years of experience in health care products or medical device industry required; Master's degree preferred. Send résumé to: **Human Resources, Organogenesis Inc., 150 Dan Road, Canton, MA 02021.** FAX: 781-401-1299; e-mail: **Human-Resources@organo.com**; website: **www.organogenesis.com.** *Equal Opportunity Employer.*

## POSITIONS OPEN

### DIRECTOR CENTER FOR ENVIRONMENTAL RESOURCE MANAGEMENT The University of Texas at El Paso

The University of Texas at El Paso (UTEP) invites applications and nominations for the position of Director of its Center for Environmental Resource Management (CERM). A major component of the University's research and education endeavors, CERM provides Universitywide leadership and coordination for energy and environmentally related academic, policy, research, and service activities. Its mission is to address the environmental problems that threaten the health, safety, well-being, and economic development of the Southwest Border region of the United States and northern Mexico. CERM currently administers approximately \$10 million in federal, state, and private-project funds. CERM focuses University resources to address hazardous waste, air quality, water availability and quality, ecosystem, alternate energy, and policy issues through an active program of research, outreach, policy, and academic programs. An important part of CERM's mission is to provide support for a culturally diverse student population to develop the skills necessary to become environmental engineers and scientists. CERM administers the University's multidisciplinary Ph.D. in environmental science and engineering and works with faculty throughout the University in the implementation of this program. The successful candidate should show evidence of outstanding leadership capability in administering complex research and academic programs, have progressively responsible experience with public-sector agencies or institutions, have substantial knowledge of environmental issues and policies affecting the U.S.-Mexico border region, have demonstrated the ability to secure and direct major externally funded programs, possess a Doctoral degree in a relevant science or engineering field, and be committed to UTEP's mission of providing a quality education to its diverse population. Situated in the largest metropolitan region on the U.S.-Mexico border, UTEP provides Doctoral, Masters', and undergraduate programs to over 14,000 students. Please send a letter summarizing your interest and capabilities, a detailed résumé, and list of three references to: **Dr. Paul C. Maxwell, Associate Vice President for Research and Sponsored Projects, The University of Texas at El Paso, Administration Building, Room 209, El Paso, Texas 79968-0587.** Applications will be accepted until the position is filled. *UTEP does not discriminate on the basis of race, color, national origin, sex, religion, age, disability, or sexual orientation in employment or the provision of services.*

### FACULTY POSITIONS THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT TYLER

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

Interested candidates should submit a current curriculum vitae, a future research plan, and the names and addresses of three references to: **Dr. Mark A. L. Atkinson, Chair of Faculty Search Committee, University of Texas Health Science Center at Tyler, 11937 U.S. Highway 271, Tyler, TX 75708-3154.** E-mail: **Mark@uthct.edu.**

*Equal Employment Opportunity/Affirmative Action Employer; Minorities/Females/Veterans/Disabled. Applications are strongly encouraged from minorities and women.*

## POSITIONS OPEN

### OUTSTANDING OPPORTUNITIES IN CARDIOVASCULAR RESEARCH FOR CREATIVE GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS The University of Virginia

The University of Virginia offers a multidisciplinary training program in basic cardiovascular research. Our special strengths are in the area of vascular biology with studies emphasizing molecular biology, physiology, pharmacology, biophysics, and cell biology of the vessel wall. Thirty-one Investigators are participants in a training program with a long history of successful mentoring of both graduate students and Postdoctoral Fellows. Our particular strengths are in the areas of structural biology, cell signaling, and microvascular function. Laboratory investigations are underway in cell-cell communication in microvessels; cardiac, smooth muscle cell signal transduction; angiogenesis; and leukocyte-endothelial cell interactions. Positions are well supported and include stipend, health insurance, and travel. A special program also exists for M.D.s wishing to pursue the Ph.D. Details of the interests of the faculty, a description of the program, and application forms may be found on the World Wide Web at **website: http://www.med.virginia.edu/medicine/inter-dis/cvrc.** For additional information, e-mail: **cimcon@virginia.edu.** Interested and competitive applicants may also apply directly to: **Dr. Brian R. Duling, Department of Molecular Physiology and Biological Physics, P.O. Box 10011, Health Sciences System, University of Virginia, Charlottesville, VA 22906-0011.** *These positions are restricted to permanent residents or citizens of the United States. The University of Virginia is an Equal Opportunity Employer.*

### AIR POLLUTION HEALTH EFFECTS SPECIALIST

The Graduate Environmental Science Program at the University of North Texas seeks a Senior Air Pollution Health Effects Scientist for a tenured **FULL PROFESSOR** position beginning fall 2000. Applicants are sought whose experience, research, and teaching relate to assessing air pollution contaminant effects on human/public health. The successful candidate must have demonstrated the ability to develop and sustain a productive interdisciplinary research program and have national or international recognition for leadership in professional endeavors. Responsibilities include teaching air pollution health effects-related courses, conducting research, delivering outreach programs, and collaborating with the University of North Texas Health Science Center public health program. Search will remain open until position is filled. Send letter of interest, résumé, and names of references (mail and e-mail) by March 15, 2000, to: **T. W. LaPoint, Search Committee Chair, Environmental Science Program, University of North Texas, P.O.B. 310559, Denton, TX 76203.** E-mail: **lapoint@unt.edu.**

Information about the University of North Texas, the Environmental Science Program, and Department of Biological Sciences can be found at **websites: www.unt.edu, www.ias.unt.edu, and www.biol.unt.edu.** *The University of North Texas is an Equal Opportunity/Affirmative Action Employer.*

### FACULTY POSITION DEVELOPMENT AND EVALUATION OF OPTICAL CONTRAST AGENTS

The Department of Radiology of Washington University in St. Louis invites applications for a faculty position in the newly established Optical Radiology Laboratory. We seek applicants who will take a creative approach to the development of novel optical contrast agents for biomedical imaging. Candidates from a variety of disciplines will be considered. To apply, please send a curriculum vitae, detailed research plan, representative publications, and the names of at least three references to: **John C. Schotland, M.D., Ph.D., Department of Radiology, Washington University, 4525 Scott Avenue, St. Louis, MO 63110.** *Washington University is an Equal Opportunity/Affirmative Action Employer.*

## POSTDOCTORAL FELLOWSHIP IN MAMMALIAN DEVELOPMENT

Two postdoctoral positions are immediately available in the Cancer and Developmental Biology Laboratory, under the supervision of Dr. Colin L. Stewart, Laboratory Chief. The first postdoctoral position will study the regulation of imprinted genes and investigate the epigenetic modifications of imprinted alleles leading to transcriptional silencing. Candidates with experience in epigenetics, transcriptional regulation, chromatin structure, and/or gene targeting will be considered. The second position will study nuclear structure and organization as related to a variety of congenital diseases such as lipodystrophy, cardiomyopathy and muscular dystrophy (see ref. Sullivan et al, J. Cell Biol. 147:913, 1999). Candidates with experience in mouse genetics, molecular biology and gene targeting will be considered. More information about the CDB Laboratory and its research programs may be found at its website: <http://web.ncicrf.gov/research/pi/cdb/stewart.html>.

These positions are part of the Division of Basic Sciences of the National Cancer Institute and are located at the Frederick Cancer Research and Development Center in Frederick, MD. The National Institutes of Health is an equal opportunity employer and encourages all qualified women and minorities to apply. Selection for these positions will be based solely on merit, with no discrimination for non-merit reasons such as race, marital status, physical or mental disability, age, sexual orientation or membership or nonmembership in an employee organization. Salary range for these positions is \$31,500-\$38,020.

If interested, please send a cover letter, your curriculum vitae and 3 letters of recommendation to **Colin L. Stewart, Ph.D., Chief, Cancer and Developmental Biology Laboratory, National Cancer Institute - Frederick Cancer Research and Development Center, P.O. Box B, Bldg. 539, Room 121, Frederick, MD 21702** ([stewartc@mail.ncicrf.gov](mailto:stewartc@mail.ncicrf.gov)).

## Postdoctoral Position Cell Cycle Regulation National Cancer Institute, NIH

Two postdoctoral positions available immediately to study protein folding and design new proteins using various tools of biophysics and molecular biology which include multi-dimensional NMR, stopped-flow CD and fluorescence, phage-display etc. Further information can be found at <http://fd.nci.nih.gov/-yawen/>.

Applicants must have less than five years postdoctoral experience. Salary commensurate with experience. Please send Curriculum Vitae and names of three references to:

**Dr. Yawen Bai - E-mail: [yawen@helix.nih.gov](mailto:yawen@helix.nih.gov)  
National Institutes of Health  
National Cancer Institute  
Building 37, Room 4A-01  
37 Convent Drive  
MSC 4255  
Bethesda, Maryland 20892-4255**

*NIH is an Equal Opportunity Employer.*



## STOWERS INSTITUTE<sup>SM</sup> FOR MEDICAL RESEARCH

### Junior and Senior Scientists

The Stowers Institute for Medical Research will open its 530,000-square-foot, state-of-the-art research facilities in Kansas City, Missouri, in November 2000. Stowers Institute scientists will conduct broad based, interdisciplinary research directed at understanding the basic molecular, cellular and genetic pathways that control how multicellular organisms are formed and patterned. Our aim is to identify and characterize fundamental mechanisms that are important not only for normal development and life's processes, but also those associated with human disease. This will encompass areas such as immunology, neurobiology, developmental biology, stem cells, cancer, leukemia and genetics. To enhance and promote this research approach, the Institute will develop and use advanced technologies and provide advanced new research facilities, including a comparative genomics laboratory, and state-of-the-art animal, high-throughput sequencing, FACS and imaging facilities.

#### Stowers Institute Scientists:

##### Robert Krumlauf, Ph.D. - Scientific Director

Analysis of molecular pathways that regulate how the mammalian head, brain and nervous system are built, using a variety of vertebrate model systems.

##### James Coffman, Ph.D.

Biochemical characterization and transcriptional analysis of gene expression to regulatory circuitry underlying early development of the sea urchin embryo.

##### Linheng Li, Ph.D.

Investigation of regulatory networks controlling T-cell development in the immune system and its relationship to oncogenesis using microarray, bioinformatic and animal model approaches.

##### Leanne Wiedemann, Ph.D.

Investigation of the molecular events associated with leukemia and the design of strategies for diagnosis and treatment using animal models.

##### Ting Xie, Ph.D.

Genetic and molecular analysis of stem cells and germ cell development in *Drosophila* and mouse.

The Institute is seeking outstanding **junior and senior scientists** at levels equivalent to Assistant, Associate and Full Professor to lead lab research groups. Selected candidates will become part of an elite team of scientists and professionals to create a world-class center for scientific research.

Candidates who utilize or envision system-wide approaches to the molecular biology of the genome are encouraged to apply. We are looking for individuals who will complement the scientists already selected for our team and enable us to expand and diversify our research. Candidates for laboratory head positions must hold a M.D., Ph.D., or both, have demonstrated scientific excellence and an established research record. Candidates should submit a CV, a statement of current research interests and future plans, and three letters of reference, indicating Job Code Sci6200, to:

Nelson R. Pleau, Chief Administrative Officer  
Stowers Institute for Medical Research  
1000 E. 50th St., Kansas City, Missouri 64110.

To learn more, visit our Web site at [www.stowers-institute.org](http://www.stowers-institute.org).

*The Stowers Institute is an Equal Opportunity Employer.*

## POSITIONS OPEN

### MASSACHUSETTS GENERAL HOSPITAL (MGH) CENTER FOR MOLECULAR IMAGING RESEARCH (CMIR) Harvard Medical School

The Center for Molecular Imaging Research at MGH invites applications for a **JUNIOR FACULTY POSITION** and several **POSTDOCTORAL POSITIONS** (U.S. citizens or permanent residents). The CMIR develops novel imaging techniques and applies them to *in vivo* imaging of different molecular processes; for example, in angiogenesis, tumorigenesis, stem cell biology, and gene therapy.

The candidate for the faculty position should have a strong academic track record and background in cell biology and/or stem cell techniques to work on an NIH-supported project on *in vivo* imaging of cell trafficking. Postdoctoral Fellows should have experience in either molecular biology, cell biology, cancer biology, chemistry, biochemistry, or imaging sciences to work on one of the following research projects: (1) angiogenesis imaging, (2) bioorganic chemistry and bioconjugation, (3) gene discovery, and/or (4) *in vivo* imaging and computation. Applications, including a curriculum vitae and names of three references, should be mailed to: **Ralph Weissleder, M.D., Ph.D., Director, CMIR, Massachusetts General Hospital, Building 149 13th Street, Room 5403, Charlestown, MA 02129. E-mail: weissleder@helix.mgh.harvard.edu; website: <http://www.mgh.harvard.edu/depts/CMIR/CMIR.HTML>.**

### INSTRUCTOR IN NUTRITIONAL SCIENCES UNIVERSITY OF ARIZONA

Nontenure track, 100% teaching appointment. Successful candidates will teach three courses per semester of an academic-year appointment. Salary supplementation through course delivery in summer sessions is available. The successful candidate will develop syllabi; select appropriate instructional materials for all courses; and be fully responsible for content, instruction, and the learning process. Salary range is \$40,000 to \$42,000 commensurate with experience and qualifications. Application review begins 3 April 2000 and continues until position filled. Send complete résumé, including three references and statement of career objectives, to: **Dr. Fred Wolfe, Head, Department of Nutritional Sciences, University of Arizona, Tucson, AZ 85721. University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer; Minorities/Women/Disabled/Veterans.**

### FACULTY POSITION ANATOMY/CELL BIOLOGY

The Department of Anatomy invites applications for a **TENURE-TRACK POSITION**. Rank is open, but demonstrated ability to secure extramural funding is required for applicants at a Senior level. Candidates should have a Ph.D. or equivalent; postdoctoral experience; and research programs or interests in skeletal or nerve tissue engineering/regeneration with a background in tissue, developmental, cell, or molecular biology. Teaching experience, particularly in gross anatomy, is highly desirable. Submit curriculum vitae, three letters of recommendation, up to five reprints, and a statement of research and teaching interests to: **D. Rick Sumner, Chair, Department of Anatomy, Rush Medical College, 600 South Paulina, Chicago, IL 60612. Website: <http://www.rushu.rush.edu/anatomy/index.html>. Rush Medical College is an Affirmative Action/Equal Opportunity Employer.**

**ENVIRONMENTAL SCIENCE: ASSISTANT PROFESSOR.** Tenure track, Ph.D.; water quality expertise and excellent communication skills required. Undergraduate and graduate course load. Send curriculum vitae, research and teaching interests, and names of three references by March 8, 2000, to: **Dr. Bruce Wyman, Department of Biological and Environmental Sciences, McNeese State University, Lake Charles, LA 70609. Website: [www.ensc.mcneese.edu](http://www.ensc.mcneese.edu). Equal Opportunity/Affirmative Action.**

## POSITIONS OPEN

### CHAIR IN CANCER RESEARCH

We are looking for an outstanding Molecular Biologist and community leader for our newly created Chair in Cancer Research. The Chair will have a unique opportunity to provide leadership as a scientist and as a member of the community to the consortium supporting the creation of the Chair.

The Chair will hold a senior, tenured faculty appointment in the Department of Chemistry and Biochemistry at Laurentian University and an appointment with the Northeastern Ontario Regional Cancer Center in Sudbury and Cancer Care Ontario.

The Chair will be expected to provide leadership and mentoring to the Tumor Biology Group, consisting of principal investigators at the Cancer Center and at the University, and provide a leadership role in the establishment of a Ph.D. program in biomolecular science at Laurentian University. The Chair will have the opportunity to advise the Chief Executive Officer of the Sudbury Regional Hospital on clinical research and development opportunities in his/her area of expertise.

The Chair project is one of the cornerstones of a five-year plan for the development of a Northern Health Research Institute linking the University, the Hospital, and the Cancer Center. The resources available to the Chair are commensurate with the ambitious plans of the Consortium. In addition to a competitive salary, there is available to the Chair support in excess of one million dollars during the first five years for equipment and research support. The Consortium is committed to working to secure significant research support beyond the first five years.

Please address applications or requests for further information to:

**Dr. Hermann Falter, Chair  
Search Committee for the Chair in  
Cancer Research  
Office of the Vice President, Academic  
Laurentian University  
Sudbury, Ontario  
P3E 2C6  
Telephone: 705-675-1151-3363  
E-mail: [H.Falter@Nickel.Laurentian.Ca](mailto:H.Falter@Nickel.Laurentian.Ca)**

*The Consortium is committed to Equity in Employment and encourages applications from all qualified candidates, including women, aboriginal peoples, members of visible minorities, and persons with disabilities. In accordance with Canadian immigration requirements, this advertisement is directed first to Canadian citizens and permanent residents.*

### FACULTY POSITION IN CLINICAL PATHOLOGY

The Department of Pathology at Northwestern University Medical School seeks an M.D./Ph.D. or M.D. who is Board-eligible or Board-certified in clinical pathology to develop and direct a gene expression analysis laboratory within the clinical laboratories at Northwestern Memorial Hospital. The candidate should have general experience in clinical pathology/laboratory medicine and a strong interest in molecular mechanisms involved in gene expression, including receptor signaling and receptor-associated cofactors. The candidate will be expected to sustain a vigorous research program in the molecular aspects of breast development and breast cancer. The position involves intensive interactions with both the basic and clinical researchers in the Department and cancer center. This is a continuing, full-time, **TENURE-TRACK POSITION** with a start date of July 1, 2000. Salary and rank will be commensurate with applicant's qualifications and experience. Applicants should send a curriculum vitae, copies of their two most significant publications, brief descriptions of present research and future research plans, and three letters of recommendation (no later than March 31, 2000) to: **Janardan K. Reddy, M.D., Chair, Department of Pathology, Northwestern University Medical School, Chicago, IL 60611.**

*Northwestern University is an Affirmative Action/Equal Opportunity Employer. Hiring is contingent upon eligibility to work in the United States. Members of minority groups are encouraged to apply.*

## POSITIONS OPEN

### ASSOCIATE DIRECTOR HISTOCOMPATIBILITY AND MOLECULAR IMMUNOGENETICS LABORATORY

The Department of Pathology and Laboratory Medicine, Emory University School of Medicine, is seeking an Associate Director for the Histocompatibility and Molecular Immunogenetics Laboratory. The Laboratory supports both solid organ and bone marrow transplant programs at Emory and offers a full range of serologic, flow cytometric, and molecular HLA services. Responsibilities include working with the Laboratory Director to oversee the daily clinical operation; assuring the quality of services; interacting with various members of the transplant teams; developing new testing, training, and teaching of residents and Fellows; participating in Departmental committees; and maintaining a productive career through research and publications. The position carries a faculty rank of **ASSISTANT PROFESSOR** and requires an M.D. or Ph.D. with appropriate training in histocompatibility testing. The candidate should have ABHI Diplomate certification or be ABHI-eligible. Preference will be given to individuals with training and/or experience in molecular HLA testing methods. Send curriculum vitae and list of three references to: **James L. Madara, M.D., Chair, Department of Pathology, Emory University Hospital, Room H-184, 1364 Clifton Road, Atlanta, GA 30322. Emory University is an Affirmative Action/Equal Opportunity Employer.**

### ASSISTANT PROFESSOR OF BIOLOGY

Tenure track, Position # 748. The Biology Program invites applications for **ASSISTANT PROFESSOR OF GENETICS** beginning September 2000. The primary teaching duties will be genetics and introductory biology courses for majors and non-majors. In addition, you will be expected to conduct an independent research program, develop specialty courses, supervise undergraduate research projects, advise students, and participate in faculty governance. A Ph.D. and previous college teaching experience are required. To request accommodations, **Telephone: 201-684-7734.** Qualified persons could send letter of interest, curriculum vitae/résumé, and a list of three references to: **Dr. Rena Bacon, School of Theoretical and Applied Science, Ramapo College of New Jersey, 505 Ramapo Valley Road, Mahwah, NJ 07430.** We will begin to review résumés on February 4, 2000, and continue until positions are filled. Since its beginning, Ramapo College has had an intercultural/international mission. Please tell us how your background, interest, and experience can contribute to this mission, as well as to the specific position for which you are applying. **Website: <http://www.ramapo.edu>.** Position offers excellent state benefits.

Ramapo College is a member of the Council of Public Liberal Arts Colleges (COPLAC), a national alliance of leading liberal arts colleges in the public sector: "New Jersey's Public Liberal Arts College." *Equal Employment Opportunity/Affirmative Action.*

### ASSISTANT PROFESSOR OF MEDICINE RENAL DIVISION Washington University School of Medicine

The Renal Division at Washington University School of Medicine seeks to recruit a Scientist to a tenure-track position. Candidate (M.D., Ph.D., or M.D./Ph.D.) should be well trained in and committed to a career in biomedical research and able to function independently, as demonstrated by prior publications and funding. We can provide an outstanding start-up package and protected time. For M.D. candidates, clinical training in nephrology is not essential. Candidates' science must be of high quality but need not be directly related to the kidney. Send a curriculum vitae and a brief summary of research plans to: **Marc R. Hammerman, M.D., Director, Renal Division, Washington University School of Medicine, Box 8126, 660 South Euclid Avenue, St. Louis, MO 63110. Washington University is an Equal Opportunity Employer/Affirmative Action Employer; Minorities/Females/Disabled/Veterans.**

## nature immunology

Seeks two

### ASSISTANT EDITORS

The publishers of *Nature* have announced the July 1st launch of *Nature Immunology*, an international monthly journal covering all aspects of immunology.

*Nature Immunology* will publish papers of the highest quality in all areas of immunology, reflecting the multidisciplinary nature of the field and providing a forum for communicating important advances to a broad readership. Informative and insightful News & Views, commentaries, letters, reviews and editorials will accompany this first class research.

The Editor of *Nature Immunology*, Dr. Linda Miller, is now ready to recruit two Assistant Editors. Applicants should have a strong research background in immunology, a broad understanding and interest in the field, excellent literary skills and an enthusiasm for and commitment to the communication of science.

This is an exciting opportunity to contribute directly to the development and launch of a major new journal with the backing of the *Nature* group. The Assistant Editors will work closely with the Editor on all aspects of the journal, including manuscript selection, commissioning and editing, and writing. Close contact with the immunology community will be essential, including travel to international meetings and conferences.

Based in our established central New York City office, the successful applicants will join a large and dynamic editorial and publishing team responsible for *Nature Genetics*, *Nature Structural Biology*, *Nature Medicine*, *Nature Biotechnology* and *Nature Neuroscience* and will enjoy a close working relationship with the London-based *Nature* and *Nature Cell Biology* teams.

To apply, please submit a CV, a short (700-900 words) News & Views-style article on an exciting and newsworthy recent development in any area of immunology, and a short cover letter explaining your interest in the post, to The Editor, *Nature Immunology*, *Nature America*, 345 Park Avenue South, New York, NY 10010 (fax 212.696.9752; email [immunol@natureny.com](mailto:immunol@natureny.com)) to arrive as soon as possible and **not later than February 25th 2000**.

### Faculty Positions

#### University of Massachusetts Cancer Center

The University of Massachusetts Cancer Center at the University of Massachusetts Medical School is expanding initiatives in several key areas of cancer research. Applicants should have interests and accomplishments in: hormonal and growth factor control of gene expression; chromatin and gene regulation; and differentiation and development.

Successful candidates will be expected to establish independent research programs in a collaborative environment that interfaces multi-disciplinary, basic, clinical and translational research. Cancer center faculty participate in graduate and undergraduate medical and postgraduate teaching programs, as well as mentor pre- and post-graduate students and fellows. The positions are exceptional opportunities and will include generous start-up funds and laboratory space in a new state-of-the-art research building. Appointments will be on the tenure track and commensurate with the qualifications of the candidates. The University of Massachusetts is an Equal Opportunity/Affirmative Action Employer.

Applicants should send a curriculum vitae, a succinct statement of research, accomplishments and future research plans, along with the names of three individuals who can be contacted for recommendations to:

Dr. Gary S. Stein  
Deputy Director for Basic Research  
University of Massachusetts Cancer Center  
55 Lake Avenue North  
Worcester, Massachusetts 01655



## GENOMICS - DRIVEN DISCOVERY OF THERAPEUTIC PROTEINS: THE CHALLENGE IS BIOLOGY

ZymoGenetics, Inc. is a biotechnology company located in Seattle's historic Lake Union Steam Plant. As a subsidiary of NOVO NORDISK, a world leader in insulin and diabetes care, ZymoGenetic's mission is to identify protein therapeutic opportunities and to take selected projects as far as clinical proof of concept studies. We offer intellectual challenge, state-of-the-art facilities and a generous benefits package.

### SCIENTIST/SR. SCIENTIST - #33R100

The Protein Biochemistry group is seeking an experienced Scientist/Sr. Scientist level protein chemist with a strong background in analytical mass spectrometry and related disciplines for the characterization of proteins and peptides. A solid background in protein bio-chemistry and relevant techniques is expected. Additional experience in ion-trap, MALDI-TOF, tandem mass spectrometry, microspray LC-MS, SEC-MALLS including all data handling and reduction is desired. Hands on experience in the wide variety of sample preparation including high sensitivity and low amount sample handling techniques is a must. Qualified candidates will be able to provide proactive support for the evaluation of structure - function relationships of proteins as well as the identification of associated protein such as the characterization of hetero and homo-dimeric and multimeric protein structures and receptor/ligand interactions.

The successful candidate will have prior experience directing the efforts of a small team, experience in the operation and maintenance of existing instrumentation as well as technology/methodology development and implementation. Relevant knowledge should be demonstrated by publications, presentations and/or relevant provable industrial experience. This position requires a minimum of 3+ years comparable industry experience. Educational requirements: Ph.D. in a related science.

### SCIENTIST/SR. SCIENTIST - #32R699

The Protein Expression group is recruiting a Scientist/Sr. Scientist to lead a team responsible for producing secreted proteins using yeast expression systems. The successful candidate will have 2-5 years of Biotechnology experience with a strong background in yeast genetics and protein expression. Good supervisory, communication and project management skills as well as good interpersonal and team building skills required. Qualified candidates will have a Ph.D. in Microbiology, Biochemistry or related field.

For confidential consideration, forward your resume and cover letter, noting Job Reference number, to: ZymoGenetics, Inc., Attn: Human Resources, 1201 Eastlake Avenue East, Seattle, WA 98102. Fax: (206) 442-6658. E-mail: [jobs@zgi.com](mailto:jobs@zgi.com) EOE

# ZYMO GENETICS

## POSITIONS OPEN

### ASSISTANT/ASSOCIATE PROFESSOR AQUATIC BIOLOGY

Tenure-track opening at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR** for Aquatic Biologist in the Department of Biological Sciences at DePaul University starting September 2000. Successful candidate will be broadly trained in aquatic biology with a strong commitment to undergraduate education. All subdisciplines and approaches will be considered, including ecology; population biology; evolution; and systematics, using plant, animal, protist, or algal model systems. Ph.D. required; postdoctoral and previous teaching experience preferred. Teaching responsibilities to include some combination of: biology courses with laboratory for non-majors, coteaching introductory biology sequence for majors, intermediate-level undergraduate course(s) in aquatic biology, and graduate/advanced undergraduate course in candidate's area of expertise. Applicant should also exhibit willingness to participate in interdisciplinary programs. Research support and start-up funds available. The Department is housed in a new Biology and Environmental Sciences building that includes modern laboratory space with animal care and greenhouse facilities. Applications will be accepted until position is filled; review will begin upon receipt of completed applications. More information concerning this position is available at [website: http://diversity.depaul.edu/fjobs\\_las.html](http://diversity.depaul.edu/fjobs_las.html). Please send: curriculum vitae; three letters of reference; statement of research and teaching interests, including your educational philosophy; and list of equipment and supply needs to: **Aquatic Biology Search Committee, Department of Biological Sciences, DePaul University, 2325 North Clifton Avenue, Chicago, IL 60614.** Additional inquiries to above address or FAX: 773-325-7596; e-mail: [schohn@condor.depaul.edu](mailto:schohn@condor.depaul.edu). DePaul University is committed to Diversity and Equality in Education and Employment. The Department of Biological Sciences seeks diversity in its faculty. We encourage applications from women, people of color, and the members of other historically underrepresented groups.

### ANATOMIST SOUTHERN ILLINOIS UNIVERSITY

The Department of Anatomy invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. Qualified candidates must have a Ph.D. or M.D. degree, at least two years of postdoctoral experience with demonstrated ability to perform independent research, experience in teaching the anatomical sciences, and willingness to teach medical students in the disciplines of gross and neuroanatomy. Special (but not exclusive) consideration will be given to those with research interests in reproductive or neurobiology. Must present evidence of independent scholarly activity in the area of reproduction or neurobiology. Effective date of employment to begin August 1, 2000, or until position is filled. Send curriculum vitae, provide three letters of reference, and a letter specifying teaching interests and research plans by 30 April 2000 to: **Anatomy Search Committee, School of Medicine, Southern Illinois University, Carbondale, IL 62901-6523.** Southern Illinois University Carbondale is an Equal Opportunity/Affirmative Action Employer.

### UNIVERSITY OF FLORIDA

Seeks a **CLINICAL ASSISTANT/CLINICAL ASSOCIATE PROFESSOR** for the Department of Medicine, Division of Internal Medicine. 1.00 FTE, nontenure-track position. M.D. degree, Board-certified/Board-eligible in internal medicine. The responsibilities will consist of treating patients on an outpatient and inpatient basis and teaching medical students and residents coinciding with the care of those patients. No research responsibilities. Salary and benefits commensurate with experience. Recruiting deadline: March 15, 2000. Anticipated starting date: July 1, 2000. Please reply with curriculum vitae to: **George Caranasos, M.D., Professor, Box 100277 JHMH, Gainesville, FL 32610.** An Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN



The Department of Chemical Engineering at North Carolina State University invites applications for a special opening for a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR**. The successful candidate will participate in the research and educational activities of the newly established National Science Foundation Science and Technology Center (STC) for Environmentally Responsible Solvents and Processes. Faculty from North Carolina State, University of North Carolina-Chapel Hill, University of Texas at Austin, and North Carolina A&T collaborate in the multidisciplinary research programs of the Center, which is funded at \$18 million over the next five years, with the potential for an additional five-year renewal. We invite candidates from all relevant disciplines and particularly those with research expertise in supercritical or near-critical solvents. Candidates should send their curriculum vitae, a list of three professional references, and statements of research and teaching objectives to: **Professor George W. Roberts, Chairman of the Chemical Engineering Search Committee, Campus Box 7905, Raleigh, NC 27695-7905.** Individuals with disabilities desiring accommodations in the application process should notify the **Chairman: Telephone: 919-515-7328** by the application deadline date. North Carolina State University is an Equal Employment Opportunity/Affirmative Action Employer.

### ASSISTANT PROFESSOR ECOLOGY CEDAR CREST COLLEGE

The Department of Biological Sciences at Cedar Crest College seeks a tenure-track faculty member at the **ASSISTANT PROFESSOR** level with a background in ecology to work in a biology/environmental science program. Applicants must have a Ph.D. and be committed to excellence in undergraduate teaching and research. The successful candidate will participate in a newly organized environmental science program that includes faculty from the Biological Science and Physical Science Departments. Teaching responsibilities include a 200-level ecology course, contribution to introductory biology lectures and laboratories, and development of suitable upper-level electives. In addition, maintaining an active research program with extensive undergraduate involvement is expected.

Founded in 1867, Cedar Crest College is a four-year, independent liberal arts college for women. The beautiful 85-acre campus (a registered national arboretum) is located in the Lehigh Valley of Pennsylvania. The College is 90 miles from New York and 60 miles from Philadelphia. Cedar Crest College emphasizes cross-disciplinary cooperation and excellence in undergraduate teaching.

Application review will begin March 10, 2000. Please submit curriculum vitae; a detailed statement of teaching philosophy and research goals, including how this research would involve undergraduates; copies of recent publications; and names and addresses of three references to: **Dr. Brian S. Misanko, Chair, Department of Biological Sciences, Cedar Crest College, 100 College Drive, Allentown, PA 18104-6196.** Equal Opportunity Employer.

### BIOCHEMISTRY/ASSISTANT PROFESSOR

Louisiana State University in Shreveport invites applications for a tenure-track position effective August 2000. A Ph.D. in biochemistry is required. Excellence in teaching and research at the undergraduate and M.S. level is expected. Submit curriculum vitae, statement of teaching philosophy and research plans, and three letters of recommendation to: **Dr. Rex Matlock, Chair, Department of Chemistry and Physics, Louisiana State University in Shreveport, One University Place, Shreveport, LA 71115.** See [website: www.lsu.edu/sc/bchm/](http://www.lsu.edu/sc/bchm/) for full details. Consideration of applicants, which began on February 1, 2000, will continue until the position is filled. Louisiana State University in Shreveport is an Equal Opportunity University.

## POSITIONS OPEN

### DEPARTMENT OF BIOLOGY BATES COLLEGE

The Department of Biology at Bates College, a selective liberal arts college of 1,600 students, has two one-year replacement **ASSISTANT PROFESSOR** positions beginning in September 2000, one for an Ecologist and one for a Marine Biologist/Ecologist. Teaching responsibilities may include a combination of introductory organismal or ecology courses, contribution to the majors' 200-level ecology course, and additional course(s) in the area(s) of expertise.

The Department welcomes applications that provide evidence of effective teaching at the undergraduate level and identify specific teaching interests in ecological and organismal biology (e.g., physiological ecology, field ecology, evolutionary or behavioral ecology, animal behavior, biogeography, biomechanics, ornithology, oceanography, marine invertebrates, marine biology, marine ecology, or biology of marine mammals). Our five-week spring "short" term offers an opportunity to teach an intensive, field-based course in Maine or elsewhere. We welcome research interests that can include undergraduate projects. Completion of the Ph.D. by July 2000 is preferred.

Review of applications will begin March 10, 2000, and continue until the positions are filled. Applicants should provide: a cover letter; curriculum vitae; a statement of teaching experience, interests, and philosophy; a statement of research interests; undergraduate and graduate transcripts; and three letters of recommendation. Applications should be addressed to either: **Ecology Search Committee Chair (#R2338)** or **Marine Search Committee Chair (#R2339)** and sent to:

**Secretarial Services  
Bates College  
2 Andrews Road, 7 Lane Hall  
Lewiston, ME 04240  
Website: [www.bates.edu](http://www.bates.edu)**

Bates College values a diverse college community and seeks to assure Equal Opportunity through a continuing and effective Affirmative Action Program.

### TENURE-TRACK ASSISTANT PROFESSOR DEPARTMENT OF RADIOTHERAPY LOYOLA UNIVERSITY MEDICAL CENTER

A position is available for applicants interested in utilizing molecular approaches for analyzing or modulating the effect of irradiation on both tumor and normal cells. The expertise and interests of potential applicants should complement and positively contribute to existing work within the Department involving chromatin structure, apoptosis, and cell cycle regulation. Collaboration with both clinical and basic science colleagues is strongly encouraged. The successful candidate will have access to excellent laboratory facilities and equipment. Individuals who have either secured their own research funding or who can demonstrate such potential should first contact:

**Dr. Andrew T. M. Vaughan  
Loyola University Medical Center  
Cardinal Bernardin Cancer Center  
2160 South First Avenue  
Maywood, IL 60153-5385  
Telephone: 708-327-8191  
E-mail: [vaughan@wpo.it.luc.edu](mailto:vaughan@wpo.it.luc.edu)**

Loyola University is an Equal Opportunity/Affirmative Action Employer and Educator.

**MOLECULAR GENETICIST.** A tenure-track position is available as **ASSISTANT** or **ASSOCIATE PROFESSOR** at Finch University of Health Sciences/Chicago Medical School. Research interests should be in structural genomics, bioinformatics, cloning of disease-related genes, etc. Teaching would be in human medical genetics. The modern research facilities are located 30 miles north of the Loop. Send curriculum vitae, research description, and names of three references to: **Dr. K. E. Neet, Chair, Department of Biochemistry and Molecular Biology, Finch University of Health Sciences/Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064.** For details, visit [website: www.finchcms.edu/biochem/Biochem.html](http://www.finchcms.edu/biochem/Biochem.html). An Equal Opportunity/Affirmative Action Employer.





### Director, Sequence Analysis and Consulting Service

The University of California at San Francisco invites applications for the position of Director of the Sequence Analysis and Consulting Service (SACS). SACS provides bioinformatics consulting, training, and computing resources to an active campus-wide research community. Candidates will also participate in collaborative agency-sponsored research projects in such areas as comparative structure prediction, pharmacogenomics, and prediction of biological function. SACS is a division of the UCSF Computer Graphics Laboratory.

Candidates must have extensive understanding of DNA and protein sequence analysis methods and substantial knowledge of laboratory molecular biology techniques. Demonstrated competency writing UNIX scripts and application programs in languages such as PERL, C, or JAVA. Minimum BS or BSE. Four years experience using the UNIX operating system preferred. Desire to make innovative contributions to research methodologies and sequence analysis techniques through computational approaches. More information at: <http://www.cgl.ucsf.edu/Overview/jobs.html>.

Applicants for this position should submit their resume, including at least three references, to Dr. Thomas Ferrin, Director, UCSF Computer Graphics Laboratory, 513 Parnassus Avenue, S-926, San Francisco CA, 94143-0446, or by electronic mail: [jobs@cgl.ucsf.edu](mailto:jobs@cgl.ucsf.edu).

### Margaret and Herman Sokol Chair in Chemistry for an Early-Career Scientist and Teacher

#### Tenure-track Position

#### Search Continuing

#### Biochemistry Applicants Encouraged

Montclair State University is pleased to announce the establishment of the Margaret and Herman Sokol Chair in Chemistry for an outstanding early career scientist and teacher whose work is focused on the application of chemistry to the study of living systems. This Chair has been established through the generosity, and in recognition, of two of the university's most distinguished alumni. The late Dr. Herman Sokol, a research chemist, teacher and industrialist, was instrumental in the discovery of the antibiotic, tetracycline, and in the development of the basic process for its manufacture. Dr. Sokol served as president of the Bristol-Myers Company from 1976 until his retirement in 1981. Mrs. Sokol studied science at Montclair State and, after graduation, went on to teach mathematics and science in public schools.

The incumbent of the Margaret and Herman Sokol Chair in Chemistry will join the faculty of a strong American Chemical Society approved Department of Chemistry and Biochemistry, offering baccalaureate and master's degrees. The person selected for the Chair must demonstrate uncommon promise of engaging in a vigorous research program and of making lasting contributions in the applications of Chemistry to living systems. Equally important, the person selected for the Chair must demonstrate a deep commitment to teaching and mentoring students and to supporting their development as scientists.

The person selected for the Chair will be granted a tenure-track faculty appointment at an appropriate rank. Appointment to the chair will be for a five-year term, dependent upon maintenance of good standing in the faculty appointment, and may be renewable. The Chair will provide support for two graduate students, and the incumbent will occupy a modern laboratory in the University's newly constructed Science Hall. The incumbent will be provided with start-up funds for his or her laboratory and with annual support for research activities and supplies.

Nominations or applications for consideration for appointment to the Margaret and Herman Sokol Chair in Chemistry should include a cover letter, a resume, letters of support and other appropriate materials. Review will continue until the position is filled. Appointment to the Chair will be made effective September 1, 2000. All nominations, applications, and inquiries should be directed to:

Dean Vaughn Vandegrift  
Sokol Chair Search Committee, V-19  
College of Science and Mathematics  
Montclair State University  
Upper Montclair, New Jersey 07043  
[VandegriftV@mail.montclair.edu](mailto:VandegriftV@mail.montclair.edu)

*Montclair State University is an Equal Opportunity/Affirmative Action Employer*

Merck Research Laboratories, a world leader in Biological and Pharmaceutical Research, attracts scientists who are on the cutting edge of modern biomedical, genetic, chemical, and scientific discoveries and have an unwavering dedication to research.

### Application Molecular Modeler

The Molecular Systems group is seeking creative, self-motivated individuals with exceptional interpersonal and problem solving skills to join our scientific team in **Rahway, New Jersey**.

The successful candidate will be responsible for the design and optimization of novel drug candidates using advanced computational techniques. In addition to participating in Merck's medicinal chemistry and biology programs, the applicant would be expected to continue research in new areas of molecular modeling relevant to the drug discovery and development process. Currently, we are interested in novel approaches to address PK/ADMET issues, genomics, and library design.

Candidates must have a Ph.D. in chemistry, biochemistry, biophysics or equivalent. Strong communication skills along with the ability to work well in multidisciplinary teams are essential. Evidence of creative application of computational approaches to problems of biological or chemical interest is necessary.

For consideration, please send resume and letters of reference to **Merck Research Laboratories, Human Resources, P.O. Box 2000, Ad Code: XHXMRMLK21800, RY80-A3, Rahway, NJ 07065**. EEO/AA/VH Employer.



### Scientist/Senior Pharmacologist Pharmacology and Preclinical Development

Located in the San Francisco Bay Area, Tularik, Inc. is a biopharmaceutical company dedicated to the discovery and development of novel therapeutic agents that regulate gene expression. Our continued growth has created an excellent opportunity for a seasoned Scientist to join our Pharmacology and Preclinical Development department.

Utilizing your extensive expertise with Pharmacology and Toxicology, you will oversee the development/implementation of preclinical animal models for select drug discovery programs. You will also conduct in vivo proof of principle studies as well as studies aimed at elucidating mechanisms of action and PK/PD relationships of drug candidates. The successful candidate will possess an MD and/or Ph.D. in pharmacology, toxicology or related discipline along with 7-10 years of experience supporting drug discovery/development programs, preferably in an industrial setting. Relevant experience in several disease areas, such as inflammation, immunology, infectious diseases or metabolic disease is essential.

In addition to challenging and empowering our employees, Tularik offers experienced leadership, employee stock options, a competitive salary and benefits package, and a collaborative and stimulating research environment that recognizes achievement. To apply, please submit your CV or resume to:

Tularik, Inc.  
HR Department  
Attn: Job# SCI0218-SPPD  
Two Corporate Drive  
South San Francisco, CA 94080  
fax: (650) 825-7303  
email: [resume@tularik.com](mailto:resume@tularik.com)



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

## POSITIONS OPEN

**ASSISTANT/ASSOCIATE PROFESSOR OF BIOCHEMISTRY AND MOLECULAR BIOLOGY.** The Department of Biochemistry and Molecular Biology of the James H. Quillen College of Medicine, East Tennessee State University (ETSU), seeks a new faculty member. The appointment will be at the Assistant Professor level, although exceptional individuals may be considered for appointment as an Associate Professor. The position is tenure track and comes with a competitive salary, laboratory space in a new basic science research building, and a generous start-up package. The successful candidate must hold a Doctoral degree (Ph.D. and/or M.D.), have postdoctoral research experience, and provide evidence of highly productive prior research activity. Individuals conducting research in any area of biochemistry using contemporary molecular approaches are encouraged to apply. Preference will be given to applicants with a successful record in obtaining extramural funding, and applications for extramural funding are expected upon appointment. Review of applications will begin on April 1, 2000, and will continue until the position is filled. Send a brief description of plans for future studies, recent reprints, a curriculum vitae, and contact information for three references to: **Dr. Scott Champney, Search Committee Chair, Department of Biochemistry and Molecular Biology, East Tennessee State University, Johnson City, TN 37614-0581.** East Tennessee State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

### FACULTY POSITION IN BONE CELL BIOLOGY

The Division of Nephrology, Bone, and Mineral Metabolism at the University of Kentucky seeks a faculty member with an interest in bone cell biology. The successful candidate is expected to utilize *in vitro* bone cell models to examine functional aspects of bone turnover. The appointment may be made at the level of **ASSISTANT or ASSOCIATE PROFESSOR**, depending upon the qualifications of the candidate selected. For Assistant Professor, candidates are expected to have demonstrated significant research accomplishments; have the potential to develop a strong, extramurally funded research program; and be an integral contributor to the overall research efforts of the Division. For appointment as Associate Professor, demonstration of continuous excellence in research and extramural support are required. Applicants must hold an advanced degree and have completed postdoctoral training. Interested persons should forward a curriculum vitae and statement of research interests/plans and arrange for three letters of recommendation to be sent to: **Dr. Hartmut H. Malluche, Chief, Division of Nephrology, Bone, and Mineral Metabolism, University of Kentucky Medical Center, 800 Rose Street, Room MN564, Lexington, KY 40536-0298.**

Case Western Reserve University invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in the Department of Medicine. Successful applicants should have an earned Ph.D. degree in biomedical engineering and have expertise in biomedical optical diagnostics, with applications in endoscopic gastrointestinal disease diagnosis and staging. Applicants with extensive experience in OCT will be given preference. Candidates will participate significantly in an ongoing research effort in applications of OCT and related technologies in GI endoscopy. Candidates will also be expected to establish an independent, extramurally funded research program and participate in teaching. Send curriculum vitae to: **Michael Sivak, M.D., Gastroenterology Division, University Hospitals of Cleveland, 11100 Euclid Avenue, Cleveland, OH 44106-5066.** The University is an Equal Opportunity/Affirmative Action Employer.

**ASSISTANT/ASSOCIATE PROFESSOR**, soil science; 70% teaching/30% research. Primary responsibility is the introductory soil science course at Iowa State University. Details at website: [www.iastate.edu/hrs/jobs/jobs.html](http://www.iastate.edu/hrs/jobs/jobs.html); e-mail: [teloynac@iastate.edu](mailto:teloynac@iastate.edu); Telephone: 515-294-7636. Iowa State University is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

### CHAIR, DEPARTMENT OF GROWTH AND DEVELOPMENT University of California, San Francisco

The University of California, San Francisco, School of Dentistry, invites applications and nominations for a full-time tenured position as Chair of the Department of Growth and Development. This dynamic interdisciplinary department has clinical and teaching responsibilities in craniofacial anomalies, orthodontics, and pediatric dentistry. The Department also features an outstanding Craniofacial Anomalies Center and an active fundamental research program in developmental biology. The Department has teaching, research, and clinical responsibilities at the pre- and postdoctoral level. The postgraduate programs are articulated with an M.S. or Ph.D. degree in oral biology.

Among the major qualifications for this position are a dental degree (preferably with advanced training in pediatric dentistry or orthodontics) and/or a Ph.D. with an active research program in a related field such as oral biology, developmental biology, genetics or epidemiology. Demonstrated scholarly distinction appropriate to a tenured appointment at the **ASSOCIATE or FULL PROFESSOR** level is a requirement. It is desirable that the candidate have a history of management of human, financial, and physical resources; experience leading an academic department or program; or a leadership role in a dental school.

The position of Department Chair is available for appointment on August 1, 2000. Salary will be commensurate with qualifications and experience. Nominations and applications should be sent to: **Charles N. Bertolami, Dean, University of California, San Francisco School of Dentistry, 513 Parnassus Avenue, Room S-630, San Francisco, CA 94143-0430.** Applicants should include a letter of interest and a current curriculum vitae. Review of applications will begin immediately and continue until the position is filled by a qualified candidate.

*The University of California is an Affirmative Action/Equal Opportunity Employer. The University undertakes Affirmative Action to assure Equal Employment Opportunity for underutilized minorities and women, for persons with disabilities, and for Vietnam-era veterans and special disabled veterans.*

The Department of Pathology, Stanford University School of Medicine, is seeking a faculty member at the **ASSISTANT or ASSOCIATE PROFESSOR** level, with research interests relevant to the application and/or development of new technologies for studying human disease. The successful candidate is expected to establish an independent research program in addition to establishing and directing a tissue bank facility in the Department of Pathology.

This recruitment expands an ongoing initiative in the Department to develop and apply the experimental and biocomputational tools of the genomics revolution to human pathology. The successful candidate must have an M.D. or M.D./Ph.D. degree and extensive prior experience in experimental, computational, or diagnostic genomics or proteomics or tissue banking. Board certification in anatomic pathology and/or clinical pathology is desirable. Depending on the candidate's interests and training, the appointment will be made in the Medical Center track or in the University tenure track. Faculty in the Medical Center track are expected to build an outstanding program of clinical care, teaching, and clinical research. In the University tenure track, faculty are engaged primarily in basic science or clinical research, with some teaching responsibilities; they are expected to establish superb, well-funded research programs.

Interested individuals should send their curriculum vitae and a brief statement of their research plans and have three letters from references forwarded to:

**Stephen J. Galli, Chair  
Department of Pathology  
Stanford University School of Medicine  
300 Pasteur Drive  
Stanford, CA 94305-5324**

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

## POSITIONS OPEN

**ASSISTANT PROFESSOR** (Environmental Horticulture). Twelve-month tenure-track position with 60% teaching and 40% research responsibilities. Coordinate University of Florida Environmental Horticulture teaching program at the Tropical Research and Education Center (TREC) (website: <http://www.ifas.ufl.edu/~trecweb/>) and teach nursery and floriculture plant production. Develop a research program to meet the needs of the tropical environmental horticulture production industry. Ph.D. in horticulture or related discipline with a background in ornamental plant production required. College-level teaching experience preferred and familiarity with distance education. Applications must include (1) résumé; (2) description of research and teaching interests, experience, and qualifications; (3) letters of recommendation from three references (include addresses, telephone, and FAX numbers); and (4) official transcripts of all academic training (to be sent directly from the institution to address below). Deadline is April 15, 2000. Refer to Position 934690. Return inquiries to: **Dr. Richard E. Litz, Chair, Search and Screen Committee, TREC, University of Florida, 18905 S.W. 280 Street, Homestead, FL 33031-3314. Telephone: 305-246-7017; FAX: 305-246-7003; e-mail: [rel@gnv.ifas.ufl.edu](mailto:rel@gnv.ifas.ufl.edu).** The University of Florida is an Equal Opportunity, Equal Access, Affirmative Action Employer. The "government in the sunshine" laws of Florida require that all documents relating to the search process, including letters of application/nomination and reference, be available for public inspection.

### ASSISTANT PROFESSOR DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR PATHOLOGY

The Department of Biochemistry and Molecular Pathology at the Northeastern Ohio Universities College of Medicine seeks highly qualified applicants for a tenure-track position at the rank of Assistant Professor available July 1, 2000. Exceptional candidates will be considered at higher ranks. The successful applicant will have a Ph.D. or M.D. degree; participate in teaching of medical pharmacology; have demonstrated potential to attract extramural funding; and conduct research complementary to existing Departmental strengths in lipid metabolism and cardiovascular biochemistry, skeletal biology, eukaryotic gene regulation, signal transduction, and gene therapy. The College of Medicine is a member of a consortium composed of The University of Akron, Kent State University, and Youngstown State University.

Applications will be accepted until March 31, 2000. Send curriculum vitae, statement of research interests, teaching experience, and the names and addresses of three references to: **William J. Landis, Ph.D., c/o Human Resources, Northeastern Ohio Universities College of Medicine, 4209 State Route 44, Rootstown, OH 44272-0095.** NEOUCOM is an Equal Employment Opportunity/Affirmative Action Educator and Employer.

### ASSISTANT PROFESSOR BIOCHEMISTRY

Holy Family College invites applications for a full-time faculty position beginning August 2000. A Ph.D. (or A.B.D.) is required. The successful candidate must have a strong background in biochemistry, broad training in biology/chemistry, and a commitment to quality undergraduate liberal arts education. Teaching responsibilities include a majors two-semester biochemistry course, non-majors courses, and possibly other majors courses appropriate to the interests and training of the candidate. Holy Family College is a small, coeducational Catholic college. The application deadline is March 15, 2000. Applicants should send a cover letter, statement of teaching philosophy, curriculum vitae, transcripts, and three letters of recommendation to: **Joseph Michalewicz, Ph.D., Search Committee Chair, Division of Natural Sciences and Mathematics, Holy Family College, Grant and Frankford Avenues, Philadelphia, PA 19114-2094.** For additional information, explore Holy Family College's website: <http://www.hfc.edu>. Holy Family College is an Equal Opportunity Employer.





**Ontogeny**, a leader in translating insights learned from developmental biology into regenerative medicine therapies, is seeking highly motivated scientists to join an interactive group of researchers in a stimulating and challenging environment. Our rapidly growing company applies molecular and cellular biological techniques to studying tissue development and repair. The exciting career opportunities below are indicative of our commitment to expanding discovery efforts and aggressively pursuing our existing research and development projects.

In Ontogeny's on-going quest to build a company of distinction, we are continually creating a team of highly motivated, committed individuals. In acknowledgment of the expertise you bring to the company, we offer a very competitive compensation package, including an incentive stock plan, challenging projects, and an exciting positive atmosphere. If interested in joining the Ontogeny team, please respond by sending your resume to  
Marlene A. Thayer  
Director, Human Resources  
45 Moulton Street,  
Cambridge, MA 02138  
fax 617/876-7617.  
Alternatively, you may send your resume via email to [jobs@ontogeny.com](mailto:jobs@ontogeny.com). Please specify job code in subject line of e-mail. No telephone calls please. Ontogeny, Inc. is an Equal Opportunity Employer.

#### ***Developmental Biology***

Several positions are available, both at the PhD and BS/MS levels for individuals with an interest in studying tissue development as a way of discovering novel therapeutic agents. For some of these positions, prior experience in model organisms, such as zebrafish, would be valuable. For others, knowledge of stem/progenitor cell biology is required. An interest in diabetes or oncology would also be useful. **Job Code: SDB**

#### ***Neurobiology***

Our neuroscience group is establishing a variety of in vitro systems using a developmental biology approach. The successful candidate would join a team whose focus is to discover and test novel factors and pathways that have relevance to neurological disorders. A position is available for an individual with a PhD and post-doctoral experience in neurobiology. Broad familiarity with approaches to studying neuronal and glial development in cell culture is required. Familiarity with animal disease models would be very helpful. **Job Code: SNB**

#### ***High Throughput Screening (HTS)***

The successful candidate will be responsible for establishing and maintaining automation required for cell-based and biochemical HTS to help identify novel small molecule drugs. The candidate must possess a BS/MS in biochemistry or related field and be able to work independently with a high degree of motivation. Hands-on experience with robotics and related software is essential. Experience with assay development for HTS is preferable. **Job Code: SHTS**

#### ***High Throughput Screening (HTS) Assay Development***

This position requires a PhD in biochemistry or related field. As a member of the high throughput screening group this individual will develop and implement biochemical and cell-based assays for HTS. Experience with automation, cell-based and biochemical assays that utilizes a variety of assay technologies and detection formats is desirable. **Job Code: SAD**

#### ***High Throughput Screening (HTS) Data Management, Cheminformatics***

We are seeking an individual with experience in an HTS environment. The candidate will use available software to maintain a database of compound structures and biological assay results, and will work with scientists to coordinate the collection, processing storage and analysis of screening data. This position requires a BS/MS in chemistry, biology or computer science. The candidate should possess excellent communication skills and the ability to work in a flexible and collaborative environment. Experience working in both a UNIX and Windows NT environment is preferred.

**Job Code: SDM**

#### ***Analytical Chemist/Natural Product Chemist***

This position requires a PhD in analytical chemistry, pharmacognosy, organic chemistry or related field. This individual must have experience with characterization of small molecules and/or isolation and characterization of natural products. Expertise with various chromatography techniques, LC/MS/MS and NMR is essential. Experience with structure searches and database dereplication is a plus. **Job Code: SAC**

#### ***Pharmacology***

Positions are available for PhD level scientists, especially those with prior pharmaceutical or biotechnology experience. The successful candidates will join a new pharmacology group and work closely with Ontogeny's molecular and cell biologists to test recombinant proteins and small molecules in various disease models. Prior experience in dermatological or neural disorders is preferred. **Job Code: SPH**

#### ***Research Associate***

We are seeking scientists with a BS/MS degree in pharmacology, toxicology, pharmacy, physiology, veterinary/animal science, or related disciplines. Prior pharmaceutical or biotechnology experience is essential. Working knowledge of pharmacokinetics and experimentation with laboratory animals is required. Experience with dermatological methods is preferred. **Job Code: SRA**



## MARINE PHYTOPLANKTON ECOLOGIST

The Department of Organismic Biology, Ecology and Evolution (OBEE) and the campus-wide Institute of the Environment (IoE) at UCLA invite applications for an **open rank, tenure-track, joint faculty position in Marine Phytoplankton Ecology**. We seek an integrative scientist who uses a variety of approaches to document and study the role and significance of coastal and oceanic phytoplankton in relation to local and global material and energy cycles. The successful candidate's research program should include one or more of the following aspects of basic and applied science: collection and analysis of coastal and global field data, laboratory experimentation, remote sensing techniques, and numerical modeling. Current faculty strengths are in marine biology, climatology, watershed chemistry, physical oceanography, pelagic and coastal wetlands ecology, thus facilitating opportunities for multidisciplinary interactions in research and teaching.

The IoE (<http://www.ioe.ucla.edu>) is a campus-wide academic unit that is devoted to interdisciplinary research and teaching related to environmental issues at local, regional, and global scales. OBEE (<http://www.lifesci.ucla.edu/bio/>) has 23 faculty, whose research ranges from cellular to evolutionary biology, including strong research programs in animal behavior, evolution, and ecology. Candidates are expected to maintain a vigorous research program and to contribute to both undergraduate and graduate teaching in both the IoE and OBEE. UCLA offers support to faculty, including access to extensive research facilities and related start-up resources.

Send CV, statements of research and teaching interests, and the names and addresses of three references by **March 31, 2000** to **Chair, Marine Ecologist Search, Department of Organismic Biology, Ecology and Evolution, University of California, Box 951606, Los Angeles, CA 90095-1606**.

*The University of California is an Equal Opportunity Employer committed to excellence through diversity.*

## University of California, Los Angeles

### Faculty position in Astrobiology

The Center for Astrobiology of the Institute of Geophysics and Planetary Physics (IGPP) at UCLA is searching for an Assistant Professor (tenure-track) in Astrobiology. We seek a person with a doctoral degree in disciplines relevant to Astrobiology and a willingness to work collaboratively in one or more of the following fields: paleobiology and ecosystem evolution (ancient Earth life and its planet-modifying capabilities), evolution of life (evolution of genomes, metabolic pathways, and cellular complexity), solar system exploration (search for life and conditions that could support life outside Earth, especially on Mars and Europa), extrasolar planetary science (prediction, detection, observation of bodies that may be abodes for life). The appointment will be made jointly between IGPP and one of the departments of the Life Sciences and Physical Sciences divisions of the College of Letters and Science. The successful candidate should have postdoctoral experience and will be expected to carry out independent research and teach in at least one College department. Demonstrated interest in teaching and the ability to inspire undergraduate and graduate students is essential.

The IGPP Center for Astrobiology was created in 1998 when UCLA became a founding member of the NASA Astrobiology Institute. Its members have pooled resources to promote research and education in Astrobiology. Research is focused on six main themes: (1) extrasolar planetary systems that may be abodes for life; (2) geobiology and geochemistry of early Earth and Mars; (3) paleobiology of Earth's early life; (4) genomic evolution and the tree of life; (5) celestial influences on terrestrial life; and (6) exploration for life in the Solar System. For additional information see: <http://astrobiology.ucla.edu> or email: [runnegar@ucla.edu](mailto:runnegar@ucla.edu).

To apply, send a curriculum vitae, a statement of current research interests and a letter of application together with the names of 3-5 referees to: **Christine Kohne, Astrobiology Search, Institute of Geophysics and Planetary Physics, 3845 Slichter Hall, UCLA, Los Angeles, CA 90095-1567, USA**. Consideration of applications will begin on March 30.

*UCLA is an affirmative action/equal opportunity employer; women and minorities are encouraged to apply.*



## UMBC CENTER FOR URBAN ENVIRONMENTAL RESEARCH AND EDUCATION (CUERE)

The University of Maryland, Baltimore County is seeking nominations and applications for two senior faculty positions.

**Position 1:** Director of the CUERE, a new center established with an initial \$2M from the U.S. Environmental Protection Agency.

**Position 2:** Professor or Senior Staff Scientist and member of the Executive Committee of the CUERE.

The mission of the Center is to promote an integrated understanding of the environmental, social and economic impacts of landscape transformation associated with urban and suburban development. Appointments begin in mid-August 2000.

The successful candidate for either position will have a Ph.D.; distinguished research and publication record in one or more areas of environmental science; consistent record of attracting competitive external funding; experience leading research teams; ability to work with and to foster interdisciplinary cooperation among diverse group of researchers; ability to forge productive relationships among scientists, managers, agency personnel, and representatives of private and nonprofit sectors; and linking environmental research to public arena.

Academic department and research specialization open, but expertise in one or more of the areas included in the Center's mission is essential. The campus is also introducing a new environmental science degree program and successful candidates may participate in areas of expertise. Salary commensurate with background and experience. Additional information may be obtained from the following web site: <http://research.umbc.edu/~miller/cuere/info.htm>

Please send nominations and applications to Andrew J. Miller, Chair, Dept. of Geography & Environmental Systems, UMBC, 1000 Hilltop Circle, Baltimore, MD 21250. (Email: [miller@umbc.edu](mailto:miller@umbc.edu)). Applications must include cover letter, curriculum vitae, and the names and addresses of five references. Review of applications will begin on March 20, 2000, and will continue until the positions are filled.

UMBC is an Affirmative Action/Equal Opportunity Employer and minorities, women, and individuals with disabilities are encouraged to apply.

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NEW YORK, NY: You will join the gene expression team in development of novel cell systems for high level production of ImClone therapeutics. Ongoing projects include the characterization of novel promoters and the development of targeted expression systems in mammalian cells. You will possess a Ph.D. in Biological Sciences and expertise in molecular biology techniques (experience with EMSA and Dnase footprinting a plus) and mammalian cell culture. You should also be familiar with gene targeting methods-vector construction, electroporation and screening. Publication of research results is strongly encouraged. **DEPT: 105DL SOURCE: SC122500**

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**EMAIL:** [ImClone@rpc.webhire.com](mailto:ImClone@rpc.webhire.com)

*(Please paste or type resume-No file attachments)*

**FAX:** (800) 495-1184

**MAIL:** Source Code: SC122500  
PO Box 365, Burlington, MA 01803





**POSTDOCTORAL RESEARCH POSITIONS**  
**NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES**  
**NATIONAL INSTITUTES OF HEALTH**  
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**Calcium Signaling**

James Putney, Ph.D. (putney@niehs.nih.gov)

**Cell Adhesion and Signal Transduction in Tumor Cell Metastasis**  
Kenneth Olden, Ph.D./John Roberts, Ph.D. (roberts1@niehs.nih.gov)

**Cell Cycle Checkpoint Signaling Mechanisms and pATM Function**  
Richard Paules, Ph.D. (paules@niehs.nih.gov)

**Cellular and Molecular Mechanisms of Pulmonary Fibrosis**  
Jamie Bonner, Ph.D. (bonnerj@niehs.nih.gov)

**Cyclooxygenases, NSAID's and Cancer**  
Robert Langenbach, Ph.D. (langenb1@niehs.nih.gov)

**Cytochrome P450 Arachidonic Acid Metabolism**  
Darryl Zeldin, Ph.D./Joyce Goldstein, Ph.D. (zeldin@niehs.nih.gov)

**Eicosanoids and Pulmonary Immune Function**  
Darryl Zeldin, Ph.D./Dori Germolec, Ph.D. (zeldin@niehs.nih.gov)

**Functional Consequences of Mitochondrial Nucleic Acid Damage**  
Ben Van Houten, Ph.D. (vanhout1@niehs.nih.gov)

**Genetic Basis for Human Gene Expression Profiles Using Microarray Technology**  
Douglas Bell, Ph.D. (bell1@niehs.nih.gov)

**Genetic Regulation of the Human CYP2C3**  
Joyce Goldstein, Ph.D. (goldste1@niehs.nih.gov)

**Mitochondrial DNA Replication**  
William Copeland, Ph.D. (copelan1@niehs.nih.gov)

**Mechanisms by Which Cells Produce Mutations**  
Roel Schaaper, Ph.D. (schaaper@niehs.nih.gov)

**Mechanisms of Cell Adhesion and Migration**  
Steven Akiyama, Ph.D. (akiyama@niehs.nih.gov)

**Mechanisms of Chemical-Induced Hepatocarcinogenesis**  
Burhan Ghanayem, Ph.D. (ghanayem@niehs.nih.gov)

**Mechanisms of Gene Regulation**  
Christina Teng, Ph.D. (teng@niehs.nih.gov)

**Molecular Epidemiological Studies of Gene-Environmental Interaction**  
Douglas Bell, Ph.D. (bell1@niehs.nih.gov)

**Molecular Neurobiology**  
J.S. Hong, Ph.D. (hong3@niehs.nih.gov)

**Molecular and Physiological Mechanisms of Estrogen Hormone Action**  
Kenneth Korach, Ph.D. (korach@niehs.nih.gov)

**Pharmacological Studies on Opioid Receptors**  
Lawrence Lazarus, Ph.D. (lazarus@niehs.nih.gov)

**Protein Biochemistry**  
Robert London, Ph.D. (london@niehs.nih.gov)

**Protein Characterization by Mass Spectrometry**  
Kenneth Tomer, Ph.D. (tomere@niehs.nih.gov)

**Regulation of Signal Transduction Pathways by Adaptor Proteins**  
John O'Bryan, Ph.D. (obryan@niehs.nih.gov)

**Signal Transduction by Inositol Phosphates**  
Stephen Shears, Ph.D. (shears@niehs.nih.gov)

**Stress Induced Signaling Pathways: Preconditioning/Apoptosis**  
Elizabeth Murphy, Ph.D. (murphy1@niehs.nih.gov)

*Must possess Ph.D., M.D. or equivalent with no more than five years of postdoctoral experience. For further details, access <http://www.niehs.nih.gov/vacancy/postdoc.htm>. To apply, submit a cover letter, curriculum vitae and the names of three references to the hiring scientist at the above address.*

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**OSI Pharmaceuticals** is a leading drug discovery company with a substantial pipeline of product opportunities for commercialization with the pharmaceutical industry. OSI's research programs are focused in the areas of cancer therapeutics, cosmeceuticals, diabetes, and GPCR-directed drug discovery. OSI utilizes a comprehensive drug discovery and development capability to facilitate the rapid and cost-effective discovery and development of novel, small molecule compounds in more than 40 research and development programs.

### RESEARCH ASSOCIATE

Our diabetes group is looking for someone whose primary responsibilities will include assay development and therapeutic target validation for diabetes program using biochemical, molecular and cell biology approaches. Requires a Bachelor's degree in biochemistry or related discipline with 0-2 years of lab experience. Must have working knowledge of mammalian tissue culture, recombinant DNA techniques as well as protein biochemistry and/or cell biology. Experience with signal transduction a plus.

OSI Pharmaceuticals offers a superb benefits package, including 3 weeks vacation, stock options, 401(K) and opportunities for career development. Qualified candidates may send resume to: Director, Human Resources, OSI Pharmaceuticals, Inc., 106 Charles Lindbergh Boulevard, Uniondale, NY 11553; FAX: (516) 222-0114; e-mail: [employment@osip.com](mailto:employment@osip.com). EOE M/F/D/V.

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## Career Opportunities With Dupont Pharmaceuticals...

### Research Scientist/ Senior Research Scientists Macromolecular NMR Group

The DuPont Pharmaceuticals Company is a multinational, multibillion dollar research-based company recognized worldwide for superior service to customers and contributions to mankind. Our efforts are at the leading edge of science, medicine and technology in bringing novel solutions to major unmet medical needs. We currently have an opportunity in our Macromolecular NMR Group at our facilities in Wilmington, Delaware.

The candidate we seek will work in a team environment with a group of scientists devoted to NMR structural and functional studies of proteins, protein-ligand, and protein-drug complexes. The successful candidate will be responsible for high-level protein expression and purification and additional biochemistry/biophysics using mass-spectrometry, circular dichroism, analytical ultracentrifugation, and enzyme assays.

The successful candidate must possess a Ph.D. with relevant post-doctoral experience and must be capable of initiating a research program in one of the above fields; preference may be given to candidates with experience using mass spectrometry. Familiarity with X-ray and NMR structure determination protein requirements and molecular biology and protein expression involving novel labeling strategies at high yield is desirable.

We offer excellent compensation and benefits. Interested candidates should forward their resume and references to: The DuPont Pharmaceuticals Company, Human Resources, CODE: PD-Arch-VR, E400/2413, P.O. Box 80400, Wilmington, DE 19880-0400. An equal opportunity employer, M/F/D/V.



DuPont Pharmaceuticals Company

# PURDUE Biopharma L.P.

Purdue Biopharma L.P. is a research-oriented biopharmaceutical company which seeks to benefit patients by providing new treatments for cancer, infectious diseases and disorders of the immune system. As the Discovery Research arm of a growing and successful international Pharmaceutical organization, we are seeking highly motivated professionals to support our expansion in the Princeton, New Jersey area.

## Research Scientist – Protein Expression

Position will lead a protein expression group and be responsible for transient antibody expression and establishing stable cell lines to support synthetic antibody related studies. More specifically, this position will be responsible for strategic planning of research activities, optimizing transfection/expression conditions, independently executing research projects and supervising 1-3 Ph.D./non-Ph.D. level scientists. A Ph.D. in cell biology, molecular biology or related fields, plus 5 or more years post-doctoral research work in the field of protein expression in mammalian systems is required. A M.S. with 10 or more years of experience and demonstrated equivalent achievement may also be considered. Expertise in both transient and stable expression systems is required. Experiences in antibody engineering, bioreactors and large-scale recombinant protein production are preferred. Supervisory experience and good communication skills are necessary.

We offer competitive compensation, an attractive benefits package and opportunities for personal advancement and professional growth. For immediate consideration, qualified applicants should mail resumes with salary requirements to: **Associate Director, Human Resources, 201 College Road East, Princeton, NJ 08540. Corporate standards require drug testing and background investigation.** We are an equal opportunity employer committed to a diverse workplace.



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## Postdoctoral Position

### Molecular Genetics of Growth Control

#### Juvenile Diabetes

Postdoctoral positions are available to study the molecular mechanisms that regulate proliferation and cell death in human pancreatic B-islet cells. This research project is part of a larger multilaboratory effort aimed at developing gene therapy approaches to the treatment of juvenile diabetes. We seek highly motivated individuals with a recent Ph.D. in molecular/cell biology, genetics, biochemistry or a related science, and a strong publication record. More information about the Department of Biological Sciences at the University of Pittsburgh is available at: <http://www.pitt.edu/~biology>. Applicants should send a CV, short statement of research interests, and the names of three references to:

**Dr. James M. Pipas**  
Professor & Chair  
Department of Biological Sciences  
University of Pittsburgh  
Pittsburgh, PA 15260 USA

*The University of Pittsburgh is an Affirmative Action, Equal Opportunity employer. Women and members of under-represented minority groups are especially encouraged to apply.*

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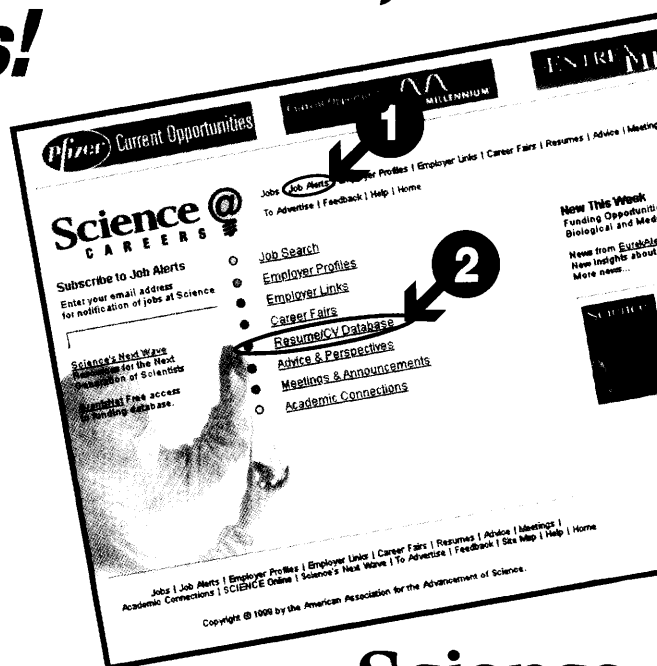
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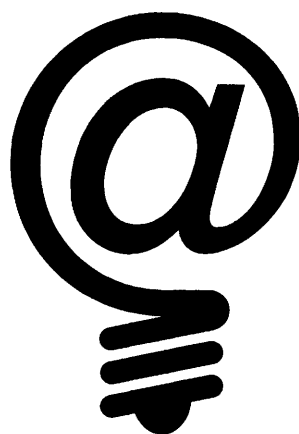
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**Agricultural  
Research  
Service**



**Director, Plant Sciences Institute  
Beltsville Agricultural Research Center**

This is a Senior Executive Service position with the U.S. Department of Agriculture.

The Director of the Plant Sciences Institute (PSI) is responsible for leadership and management of fourteen research laboratories covering all areas of plant science and comprised of about 130 Ph.D research scientists, 400 total employees, and a budget of \$29 million. PSI is the largest of the Institutes and Centers making up the Beltsville Agricultural Research Center, which is the largest and most comprehensive agricultural research center worldwide. Scientists in PSI represent a variety of disciplines, including microbiology, entomology, botany, plant pathology, plant physiology, genetics, genomics, soil science, agronomy, horticulture, chemistry, systematics, and nematology. The outstanding quality of research in PSI is exemplified by the recent designation of the top ten accomplishments in plant pathology of the 20<sup>th</sup> century by the American Phytopathological Society: of the ten, three were the work of PSI scientists, two by a scientist who is currently on staff.

This position requires considerable flexibility and skill in providing effective leadership to a wide diversity of research programs, many of which are cooperative, multidisciplinary programs with the other Institutes and Centers at Beltsville—the Livestock and Poultry Sciences Institute, the Natural Resources Institute, the Beltsville Human Nutrition Research Center, and the U.S. National Arboretum as well as cooperators in other institutions. It requires systematic, coordinated planning to achieve broad, goal-oriented research results and to ensure transfer of technology to farmers, consumers, and industry. The incumbent must also establish and maintain effective work relationships with Federal and State agencies, cooperators, and representatives of consumers and industry groups. Salary \$115K-\$130K.

For program information, please contact **Dr. Phyllis E. Johnson, Beltsville Area Director**, (301) 504-6078 or email to [johnsonp@ba.ars.usda.gov](mailto:johnsonp@ba.ars.usda.gov).

The complete vacancy announcement and information about how to apply is found at <http://www.ars.usda.gov/afm/hrd/vacancy/00-4> or contact Human Resources Division Telephone: (301) 504-1448. Applications must be received by April 14, 2000.

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## Purdue Research Center

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### SENIOR SCIENTIFIC AND TECHNICAL WRITER

Providing critical review of data, you will oversee the preparation of API and product specifications; and facilitate data reporting by using electronic templates or creating new ones when necessary. You will also edit for accuracy and content; implement revisions; ensure writers continually meet our high standards; archive documents; as well as maintain electronic records.

Ideal candidates must possess a master's degree in a scientific field, preferably biology, extensive undergraduate chemistry training and a solid pharmaceutical background. 5-10 years business writing experience is essential, along with strong computer proficiency, exceptional organizational ability and the capability of managing multiple projects.

We offer competitive salaries, an extensive benefits package and excellent opportunities for personal and professional growth. Please mail or fax resume to: **Human Resources Dept-MK/SM, Purdue, 444 Saw Mill River Road, Ardsley, NY 10502; FAX: (914) 709-2590.** Corporate standards require drug testing and background investigation. We are an equal opportunity employer committed to a diverse workplace.



## JUNIOR & SENIOR FACULTY

### Department of Physiology, Cardiovascular Research Center, and Human and Molecular Genetics Center

The Department of Physiology, the Cardiovascular Research Center and the Human and Molecular Genetics Center invites applicants for both JUNIOR and SENIOR FACULTY positions. Suitable areas of research include, but are not limited to, functional genomics using cellular, molecular and/or genetic approaches (including SNP and sequence based biology) to study integrated physiology, with emphasis on cardiac, vascular, renal, and pulmonary systems. These positions can be filled immediately. Appointment requires a Ph.D. or M.D./Ph.D. degree, post-doctoral experience, and evidence of outstanding independent research potential. Faculty appointments will be through the Department of Physiology with joint appointments in the respective Centers as appropriate. We offer a highly competitive compensation package, ample start-up funds and state-of-the-art research facilities. All candidates are asked to provide a CV including research funding and research interests; teaching experience; a list of publications; an outline describing a proposed program of research; three representative reprints; and names, addresses and phone numbers of four references to:

Medical College of Wisconsin  
Attn: J Schimke  
Department of Physiology  
8701 Watertown Plank Rd  
PO Box 26509  
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**Sr. Bioinformatics Associates, Product Science**

**Scientific Programmer**

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For the positions above, please reply with resume and letter to: Incyte Pharmaceuticals, Inc., 3174 Porter Dr., Palo Alto, CA 94304, fax 650/845-4176, email [employ@incyte.com](mailto:employ@incyte.com).

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## PhD studentships in structural biology and biological physics

*University of Virginia, Charlottesville, VA, USA*

A number of PhD studentships are available for graduate research assistants in the Department of Molecular Physiology and Biological Physics in the Medical School of the University of Virginia. Founded in 1817 by Thomas Jefferson, the University of Virginia has been consistently ranked in recent years as one of the finest public institutions in the United States. The Medical School campus is located in the heart of Charlottesville, VA, one of the most desirable locations to live in the U.S., within sight of the Blue Ridge mountains and 100 miles south of Washington DC. Prospective candidates can enroll either in the Departmental Graduate Program or in the Interdisciplinary Biophysics Program, leading to appropriate doctoral degrees. Graduates with majors in biology, chemistry, physics, or mathematics, with a strong interest in structural molecular biology and molecular biophysics are invited to apply. The following projects are available:

**John H. Bushweller, Ph.D.** - Protein structure and dynamics: NMR spectroscopy

**Zygmunt S. Derewenda, Ph.D.** - X-ray crystallography of signal-transduction proteins

**Brian Duling, Ph.D.** - Gap junctional communication in the blood vessel wall

**Howard Kutchai, Ph.D.** - Oligomeric structure and regulation of Na,K-ATPase and sarcoplasmic reticulum Ca-ATPase

**Wladek Minor, Ph.D.** - Structure-function relationships in proteins; X-ray diffraction methodology

**Richard A. Murphy, Ph.D.** - Regulation of blood pressure; cellular and molecular mechanisms affecting contraction of the muscles around blood vessels

**Robert Nakamoto, Ph.D.** - Mechanisms of the active transporters FOF1-ATP synthase and MDR P-glycoprotein studied by mutagenesis, protein chemistry and biophysical approaches

**Eduardo Perozo, Ph.D.** - Structural dynamics of ion channels using site-directed spin labeling and EPR spectroscopy

**Zhifeng Shao, Ph.D.** - Single molecule biophysics and structural biology with scanning probe microscopy

**Avril V. Somlyo, Ph.D.** - Signal transduction pathways and myosin crossbridge kinetics in smooth muscle; the role of calcium at the intercalated disk of cardiac muscle

**Andrew P. Somlyo, M.D.** - Signal transduction crossbridge cycling and compositional imaging at nm resolution, with energy loss spectroscopy and X-ray mapping

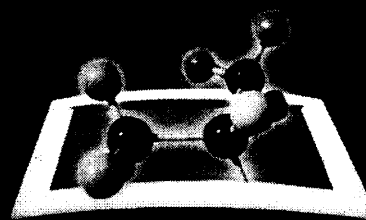
**Gabor Szabo, Ph.D.** - Receptor-mediated regulation of ion channels in cell membranes

**Lukas K. Tamm, Ph.D.** - Folding and insertion of membrane proteins; mechanisms of protein-mediated membrane fusion

**Michael C. Wiener, Ph.D.** - X-ray crystallography of integral membrane proteins

Inquiries should be addressed to **Dr. Michael Wiener** (Graduate Program in Molecular Physiology and Biological Physics), tel: (804) 243 2731, Email: mcw2s@virginia.edu; or **Dr. Lukas Tamm** (Interdisciplinary Program in Biophysics), tel: (804) 982-3578; Email: lkt2e@virginia.edu. Visit our WWW pages at <http://www.hsc.virginia.edu/medicine/basic-sci/physio/allfaculty.html> and <http://www.med.virginia.edu/ed-programs/biophysics.html> Training grant stipends are available for US citizens and permanent residents, but some opportunities are also available for international applicants.

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**JOB CODE: HS/00-0083SC**

We have an immediate opportunity in our Radiochemistry Laboratories for a Senior Scientist. The successful candidate will operate a well-equipped laboratory for tritiations of small organic molecules for *in vitro/in vivo* drug metabolism and distribution studies to help advance discovery of new lead compounds. In addition, you will develop novel methods for fast tritiations and synthetic methodology for site specific tritiations if desired.

The successful candidate should have a Ph.D. in synthetic organic chemistry. Industrial or academic experience in successful tritiations of small molecules is a must. Excellent communication and interpersonal skills, and a strong desire to work with and support interdepartmental discovery teams are essential.

## RESEARCH ASSOCIATE/ SR. RESEARCH ASSOCIATE

**JOB CODE: HS/00-0123SC**

Successful candidate will lead a pharmaceutical development group that supports very early to lead declaration discovery research, and maintain our MS instrumentation, as well as supervise the laboratory. Other responsibilities include HPLC method development, and team involvement of LC/MS/MS with capillary electrophoresis, high throughput stability and solubility analysis, as well as expert system predictions of pharmaceutical degradant identity. In addition, the individual will be expected to learn the impact of solid-state physical properties on downstream pharmaceutical development and represent development on Discovery team meetings.

Requirements include a Ph.D. in Analytical Chemistry with 6-8 years' industrial experience, extensive theoretical and troubleshooting knowledge of LC/MS/MS with a very strong background in developing rapid HPLC screens for analytical method development. Candidate should be highly innovative in exploiting new technologies to continually enhance our rapid analytical capabilities and be a strong leader with excellent interpersonal and management skills. Strong interest in capillary electrophoresis is desirable. Both scientific and management ladder promotions are possible.

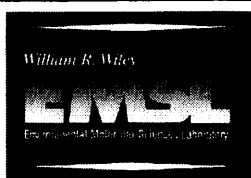
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## Pacific Northwest National Laboratory

Deputy Director

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### William R. Wiley Environmental Molecular Sciences Laboratory

The Pacific Northwest National Laboratory (PNNL) is seeking an outstanding scientific leader to serve as Deputy Director for Environmental Programs of the William R. Wiley Environmental Molecular Sciences Laboratory (EMSL). The EMSL, the Department of Energy's (DOE) newest National Scientific User Facility and a premier research institution, is operated by PNNL for the DOE Office of Biological and Environmental Research. The mission of the EMSL is to enable and conduct a wide range of research in molecular science in support of DOE missions. For more information about the EMSL, please visit our website at <http://www.emsl.pnl.gov/>.

The Deputy Director for Environmental Programs has joint responsibility with the EMSL Director for developing, maintaining, and integrating research programs sponsored by the DOE (Office of Science, Office of Environmental Management, etc.) and other public and private agencies. Duties will include assisting the EMSL Director with strategic planning, execution of the EMSL mission, and planning and managing EMSL programs and budgets at the strategic level. The Deputy Director also will assist in representing the EMSL to DOE and other major clients, advisory boards and the broader scientific and technical community.

Candidates must possess a Ph.D. in the chemical, physical, computational or environmental sciences or a related field. Distinguished research experience with a significant publication record in one of the technical disciplines practiced in the EMSL is required. Progressively responsible management experience at the Senior Group Leader level or higher is also required.

PNNL, one of nine DOE multiprogram research laboratories, is a leader in basic and applied research in environmental and health science and technology. It is located in southeastern Washington State in the city of Richland, employs 3,400 and has an annual budget of more than \$500 million.

For confidential consideration, interested individuals should send a scannable resume or curriculum vitae to: **Charlotte Peterson, Pacific Northwest National Laboratory, Ref. #39533, PO Box 999, Richland, Washington 99352 or E-mail to [charlotte.peterson@pnl.gov](mailto:charlotte.peterson@pnl.gov) or FAX to (509) 375-4304. PNNL is an Affirmative Action/Equal Opportunity Employer and supports diversity in the workplace. Minorities, women, Vietnam-era veterans, and the disabled are encouraged to apply.**



## McGill BIOINFORMATICS AND COMPUTATIONAL BIOLOGY

Assistant Professor  
Department of Biochemistry and  
Cancer Center  
McGill University

We invite applicants for a faculty position at the level of Assistant Professor in the McGill University Cancer Center and the Department of Biochemistry. Qualifications include a strong potential for imaginative research involving the area of bioinformatics, computational functional genomics or biological subcellular multi-element network modeling applied to cellular behavior and the biology of cancer. This position offers scholarly and scientific resources for independent research and collaborations, including "wet-lab" space for experimentation, as well as the opportunity to teach graduate and undergraduate students with a strong interest in modern bioinformatics research. Applicants should submit a curriculum vitae, bibliography, a brief (limit of 500 words) description of research interests and arrange to have three letters of recommendation sent. These should be directed to:

**Professor Clifford Stanners**  
McGill University Cancer Center  
Rm. 701, 3655 Promenade Sir-William-Osler  
Montreal, Quebec, Canada  
H3G 1Y6

**Note:** In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada but others are encouraged to apply. McGill University is committed to equity in employment.

## RESEARCH ASSISTANTS

Children's Hospital Medical Center in Cincinnati, Ohio, nationally recognized as one of the top children's hospitals in the nation, encourages research candidates to consider careers with our renowned and nationally funded research divisions. Research positions exist at all levels and are accepted on a continual basis.

### CANCER GENE THERAPY

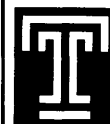
We are assembling a new research team to develop new methods of gene therapy for treating childhood cancer. Routine procedures used include recombinant adenovirus construction and testing; mouse tumor models, cell culture, flow cytometry, protein and nucleic acid blotting; and plasmid construction. Related experience is desirable. A Bachelor's degree in biological sciences is required. We also seek a Lab Manager with at least 5 years experience in a laboratory.

We offer an excellent pay and benefit package. Interested candidates may forward their resume to Human Resources. FAX: 513-636-7291 or e-mail: [resume@chmcc.org](mailto:resume@chmcc.org). EOF.



3333 Burnet Avenue  
Cincinnati, Ohio 45229-3039

Children's Hospital Medical Center is an  
Affirmative Action/Equal Opportunity Employer.



TEMPLE UNIVERSITY  
College of Science  
and Technology  
Department of Chemistry

As part of a major expansion in the sciences, the new College of Science and Technology at Temple is recruiting for thirty new faculty positions in the areas of Computer Science, Information Science, Biotechnology, Environmental Science and Technology, Physical Sciences, Engineering, and Mathematics. Fifteen new faculty members have already joined the College with strong research programs and peer reviewed grant support, resulting in an increase in excess of six million dollars in external funding. Faculty searches for the remaining fifteen positions are in progress.

The Department of Chemistry invites applications for tenure-track positions in the following areas:

- Biochemistry
- Materials Chemistry

Successful candidates are expected to have or be able to develop significant research programs and to provide effective instruction at both undergraduate and graduate levels. Appointments are possible at all academic ranks appropriate to experience. Applicants for Associate Professor or Full Professor are expected to have a substantial publications record and a strong research program, supported by external peer-reviewed grants. We especially encourage applications from candidates whose research is interdisciplinary in nature. Salaries for new faculty are highly competitive and substantial resources have been allocated for start-up funding. Modern laboratory space is available.

The College of Science and Technology offers Bachelor's, Master's, and Ph.D. degrees in basic and multidisciplinary areas. Temple University, located in Philadelphia, Pennsylvania, is part of the Pennsylvania Commonwealth System of Higher Education and serves more than 28,000 students.

Applicants should submit a curriculum vitae, three representative publications, a statement of research interests, and a statement of teaching philosophy, and should arrange for four letters of reference to be sent directly to the address below.

**Professor George Baran**  
Chair, Search Committee and Acting  
Chair of Chemistry  
Office of the Dean  
College of Science and Technology  
Barton Hall, Room A409  
Temple University (009-00)  
Philadelphia, PA 19122, USA

Temple University is an Equal Opportunity/Affirmative Action Employer and specifically invites and encourages applications from women and minorities. Information about Temple University is available at <http://www.temple.edu>.

## POSITIONS OPEN

### MICROBIOLOGY FACULTY POSITION

Hope College has a one-year term appointment for a Microbiologist at the **ASSISTANT PROFESSOR** level available beginning in August 2000. The successful candidate will teach biological unity and diversity (introductory biology) in the fall semester and biology of microorganisms in the spring semester. Each course consists of three hours of lecture and nine hours of laboratory per week. Hope College is a distinguished liberal arts college with an enrollment of 3,000 and a faculty of more than 250. Hope College maintains a strong tradition of "teaching through research" in the sciences. Hope College is affiliated with the Reformed Church in America. Qualified applicants should arrange to have a curriculum vitae, transcripts, a statement of teaching philosophy and competencies, and three letters of recommendation forwarded to: **Dr. Christopher C. Barney, Chair; Department of Biology, Hope College, 35 East 12th Street, Holland, MI 49422-9000.** We will begin reviewing applications on March 27, 2000, and plan to make an appointment as soon as feasible thereafter. Additional information about the Hope College Biology Department is available at website: <http://www.hope.edu/academic/biology>. Hope College complies with all legal requirements prohibiting discrimination in employment and actively seeks diversity in its applicant pool. Women and persons of color are strongly encouraged to apply.

**ASSISTANT PROFESSOR**, flavor chemistry, Penn State: A growing, dynamic Department of Food Science seeks applicants for the position of Assistant Professor of Food Science with an emphasis on flavor chemistry. This tenure-track position is divided 60% research and 40% teaching. The individual will be expected to develop and maintain an externally funded research program on flavor chemistry, with a focus on flavor-ingredient interactions. The teaching component includes primary responsibility for one undergraduate course in food analysis, one graduate-level course with contribution to a course in sensory analysis, and advising. Applicants must have an earned Doctorate in food science; chemistry (analytical, organic, physical); or biochemistry with strong interest in flavors. Postdoctoral or industrial experience is highly desirable. A competitive salary commensurate with qualifications and experience and an attractive benefits package are available. The closing date for applications is April 30, 2000, or until a qualified candidate is found. Anticipated starting date is July 1, 2000. Applicants should submit a letter of application, résumé, academic transcripts, and the names of three professional references to: **Dr. Gregory R. Ziegler, Borland Laboratory, Box D, University Park, PA 16802.** Affirmative Action/Equal Opportunity Employer.

**ASSISTANT PROFESSOR, MEDICINAL CHEMISTRY/CHEMICAL TOXICOLOGY:** Tenure track, University of New Mexico College of Pharmacy. Minimum requirements: Ph.D. or equivalent in medicinal chemistry/chemical toxicology, or closely related discipline; postdoctoral or equivalent experience; a record of research productivity; and evidence of ability to develop/maintain an extramurally funded chemistry/toxicology research program. Applications accepted until April 15, 2000, or position is filled. Detailed application information at website: <http://hsc.unm.edu/jobs/index.html>. Contact: **Dr. J. Born, Chair, Search Committee, College of Pharmacy, University of New Mexico, Albuquerque, NM 87131.** E-mail: [jbrown@unm.edu](mailto:jbrown@unm.edu). The University of New Mexico is an Equal Opportunity/Affirmative Action Employer/Educator.

**RESEARCH ASSOCIATE/CELL BIOLOGIST:** Center for Persons with Disabilities. Utah State University seeks an experienced cell biologist with B.S. or M.S. degree in medical technology/biology or related field. Prefer expertise with analyzing blood cells by flow cytometry. General cell biology and scientific-level computer skills required. See website: <http://personnel.usu.edu> (Job #3-104) for full job description or contact: **Anthony Torres; Telephone: 435-797-8874; FAX: 435-797-3944.** Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### ASSISTANT PROFESSOR DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR PATHOLOGY

The Department of Biochemistry and Molecular Pathology at the Northeastern Ohio Universities College of Medicine seeks highly qualified applicants for a non-tenure-track position at the rank of Assistant Professor available July 1, 2000. Exceptional candidates will be considered at higher ranks. The successful applicant will have a Ph.D. or M.D. degree; participate in teaching the biochemistry of metabolism to first-year medical students; have demonstrated potential to attract extramural funding; and conduct research complementary to existing Departmental strengths in lipid metabolism and cardiovascular biochemistry, skeletal biology, eukaryotic gene regulation, signal transduction, and gene therapy. The College of Medicine is a member of a consortium composed of The University of Akron, Kent State University, and Youngstown State University.

Applications will be accepted until March 31, 2000. Send curriculum vitae, statement of research interests, teaching experience, and the names and addresses of three references to: **William J. Landis, Ph.D., c/o Human Resources, Northeastern Ohio Universities College of Medicine, 4209 State Route 44, Rootstown, OH 44272-0095.** NEOUCOM is an Equal Employer Opportunity/Affirmative Action Educator and Employer.

**ASSISTANT PROFESSOR**, tenure-track, Oregon State University Department of Entomology. We seek an Entomologist who can develop pest management programs in Willamette Valley crops, particularly those that have had grass seed as a part of their rotation. Candidates should have a Ph.D. in entomology or a closely related field and experience in the design and implementation of pest management systems. This position is newly funded by the Oregon State Legislature and comes with substantial supporting funds. Further details may be obtained from the Department Chair, **Professor Paul Jepson**, at e-mail: [jepsonp@bcc.orst.edu](mailto:jepsonp@bcc.orst.edu) or the Chair of the Search Committee, **Professor Glenn Fisher**, e-mail: [fisherg@bcc.orst.edu](mailto:fisherg@bcc.orst.edu). To apply for this position, submit a letter of interest; current curriculum vitae including education, research experience, previous employment, entomological interests, and skills; reprints of relevant publications; and names of three references to: **Dr. Glenn Fisher, 2046 Cordley Hall, Oregon State University, Corvallis, OR 97331-2907.** Review of applications will begin February 29, 2000, and continue until a suitable candidate is identified. OSU is an Affirmative Action/Equal Opportunity Employment Employer with a policy of being responsive to dual-career needs.

### ASSISTANT PROFESSOR/GENETICS

Worcester State College invites applications for a full-time, tenure-track Assistant Professor position starting in September 2000. Requirements include a Ph.D., strong commitment to teaching, and promise in research. Familiarity with liberal arts college education, teaching experience, and postdoctoral training are desirable. We expect the candidate to teach introductory biology courses and advanced courses that include genetics and developmental biology and help expand our undergraduate research program.

Applicants should send a letter of interest, their curriculum vitae, and three letters of recommendation to: **Director of Human Resources, Worcester State College, 486 Chandler Street, Worcester, MA 01602-2597.** Applications will be accepted until March 24, 2000. Worcester State College is an Affirmative Action/Equal Opportunity Employer.

**RUTGERS UNIVERSITY:** Nominations and applications for the position of **CHAIR, DEPARTMENT OF BIOMEDICAL ENGINEERING** (website: <http://biomedical.rutgers.edu>) are invited. Candidates should be eligible for appointment as **FULL PROFESSOR** with immediate tenure in Biomedical Engineering based on a distinguished scholarly record. Nominations and applications with names and addresses of three references should be sent to: **Dr. A. Zebib, School of Engineering, Rutgers University, Piscataway, NJ 08854-8058.**

## POSITIONS OPEN

### MULTIPLE RESEARCH POSITIONS DEPARTMENT OF BIOLOGY ARIZONA STATE UNIVERSITY

Applications are invited for potentially multiple multiyear **RESEARCH AND DEVELOPMENT POSITIONS** for NIH- and NSF-sponsored activities in the computation biology laboratory of **Dr. Sudhir Kumar** at the Arizona State University. The successful candidates must have expertise in at least one of the following five areas: (1) comparative analysis of DNA and protein sequences, (2) development of statistical methods for molecular evolutionary analysis, (3) computational genomics, (4) biological software development, and (5) design and development of Web-based databases of biological information. Candidates with a Ph.D. in a related discipline are desired, but a minimum of an M.S. is required. Successful candidates will have flexible start dates beginning immediately or later in the year. All initial appointments will be one year and will be renewable for additional years contingent upon satisfactory performance.

Applicants must submit a cover letter indicating the area of expertise; a complete curriculum vitae; and names, addresses, and telephone numbers of two references to: **Sudhir Kumar, Department of Biology, Arizona State University, P.O. Box 871501, Tempe, AZ 85287-1501.** E-mail: [s.kumar@asu.edu](mailto:s.kumar@asu.edu); FAX: 480-965-2519; Telephone: 480-727-6949; website: <http://ls.la.asu.edu/biology>. Review of applications will begin starting February 29, 2000, and thereafter on the first and 15th of each month until the positions are filled. Arizona State University is an Affirmative Action/Equal Opportunity Employer.

**MEDICAL HISTOLOGY.** The Department of Biomedical Sciences, Ohio University College of Osteopathic Medicine, invites applications for a full-time, tenure-track **ASSISTANT PROFESSOR**. The primary teaching responsibility is to participate in team-taught microscopic anatomy for medical students. Starting date is September 2000. A Ph.D. or equivalent and postdoctoral research training are required. The research area is open, but quality research and teaching are required for tenure and promotion. Ohio University has 19,000 students, including 2,000 graduate and 400 medical students. The University is in a rural setting in the foothills of the Appalachian Mountains, and the 24-year-old College of Osteopathic Medicine is integrated into the University in both teaching and research. The 33 faculty members of the Department also direct graduate (M.S. and Ph.D.) students in the Department of Biological Sciences.

Review of applications will begin on February 28, 2000; the search will remain open until the position is filled. Please submit a letter of application, curriculum vitae, statement of teaching and research interests, and three letters of recommendation to: **Jamie Remy, 304 Grosvenor Hall, College of Osteopathic Medicine, Ohio University, Athens, OH 45701-2979.** Further information about the position can be obtained from: **Robert Hikida**; e-mail: [hikida@ohiou.edu](mailto:hikida@ohiou.edu). Ohio University is an Affirmative Action/Equal Opportunity Employer.

Science Research Laboratory (SRL) has a full-time position for a **SENIOR RESEARCH SCIENTIST** with a Ph.D. in biology. This cell biologist will lead a research effort in the isolation of hematopoietic stem cells. The research effort includes development of new technologies for the isolation of stem cells from bone marrow and mobilized peripheral blood and verification of the viability and functionality of these isolated stem cells. This research will be performed in conjunction with **Dr. David Scadden** of the Massachusetts General Hospital (MGH).

SRL is a small, high-technology company that performs multidisciplinary research and development in biophysics, optics, and pulsed power. SRL is located within a mile of Massachusetts Institute of Technology and Massachusetts General Hospital. The salary for this position is competitive, with excellent fringe benefits. All interested applicants should contact: **Jonah Jacob, Ph.D., at Telephone: 617-547-1122, extension 139; e-mail: [jjacob@sri.com](mailto:jjacob@sri.com).**

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Schering-Plough Research Institute is a place where our future depends on the creativity and success of our scientists. Scientists that are exploiting the latest technologies. As a direct result of their advancements, we are well-positioned to meet the competitive challenges in our industry and global markets. We continue to invest heavily in research and development. And our pipeline of innovative new products in development is designed to drive our growth well into the 21st century.

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[WWW.SP-RESEARCH.COM](http://WWW.SP-RESEARCH.COM)**

**TO VIEW CURRENT OPPORTUNITIES OR FOR MORE INFORMATION**

You may also forward your resume which **MUST** include **Job Code XHXDDWIS** to: **E-mail: [sprisc@search.com](mailto:sprisc@search.com)** or **send to: Human Resources-HW, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033-1300**. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.



**Schering-Plough  
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## **NIH Research Positions Molecular Immunology/Parasitology**

Position available immediately to investigate molecular mechanisms that underlie the etiology and susceptibility to intraocular inflammatory diseases of infectious or autoimmune origin. Staff Scientist Position: The chosen individual will have major roles in training staff and postdoctoral fellows and maintaining research continuity within the laboratory. This is a renewable position with an initial 2 year appointment. Preference will be given to highly motivated individuals with strong background in cellular & molecular immunology, immuno-parasitology or molecular biology and outstanding research credentials. Salary range is from \$60,000-\$85,000 depending on experience and publication record. Candidates must be US citizen or permanent resident and must have a Ph.D. or M.D. Deadline for application is April 1, 2000. Send curriculum vitae and names of 3 references to:

**Charles E. Ekwuagu, MPH, Ph.D.,  
Laboratory of Immunology,  
National Eye Institute,  
National Institutes of Health, Building 10,  
Room 10N116  
10 Center Dr. MCS 1857, Bethesda,  
Maryland 20892-2730.  
Fax: (301) 480-3914, email:  
[emeka@helix.nih.gov](mailto:emeka@helix.nih.gov)**

*NIH is an Equal Opportunity Employer*

**PENNSTATE**  
University Park

## **ASSISTANT, ASSOCIATE OR FULL PROFESSOR OF BIOENGINEERING**

Applications are invited from individuals with a Ph.D. in disciplines related to bioengineering for multiple tenure-track positions that will expand the direction of teaching and research beginning with the 2000-01 academic year. Preference will be given to researchers in two general areas: (1) Nanotechnology, microelectromechanical systems (MEMS) or materials science, with applications to medical devices or biosensors, and (2) biomolecular transport or tissue engineering. A strong background in the life sciences and postdoctoral experience is desirable. Send curriculum vitae, statement of objectives, and names of three references by May 1, 2000 to: **Dr. Herbert H. Lipowsky, Chairman, Bioengineering Program, Pos #: S-6967, Box W, The Pennsylvania State University, 233 Hallowell Building, University Park, PA 16802.**

Penn State is committed to affirmative action, equal opportunity and the diversity of its work force.



**FACULTY JOINT  
APPOINTMENT IN  
BIOENGINEERING AND  
ELECTRICAL ENGINEERING**

## **UNIVERSITY OF CALIFORNIA, SAN DIEGO**

The Department of Bioengineering and the Department of Electrical and Computer Engineering of the University of California, San Diego, invite applications for a **TENURED OR TENURE-TRACK FACULTY POSITION** from individuals with expertise at the interface of these disciplines. The successful applicant will be expected to establish a vigorous program of high-quality research that complements existing activities in the departments. Some examples of research areas are scientific applications of **nanotechnology and biochips (with electronic, photonic, fluidic, or MEMS components)** to **molecular, cellular and tissue engineering, functional genomics, systems bioengineering, and related biomedical problems**. The successful candidate will be responsible for teaching at the undergraduate and graduate levels. There will be close collaboration with the School of Medicine, San Diego Supercomputer Center, and other academic units. Salary is commensurate with qualifications based upon UC pay schedules. Please send a complete biography, samples of publications, summary of research plans, and the names and addresses of five references to: **Professor David A. Gough, Department of Bioengineering, University of California, San Diego, La Jolla, CA 92093-0412**. Consideration of applicants will begin March 28, 2000 and continue until the position is filled. Immigration status of noncitizens should be stated in the resume. The University of California, San Diego is an Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### SENIOR EDITOR BETHESDA, MARYLAND

The Journal of the National Cancer Institute/Oxford University Press seeks an individual to review/revise scientific content; prepare press releases for selected articles; be a liaison with authors, editors, etc.; participate in content planning; and attend scientific meetings.

Ideal candidates must possess a Ph.D. in a biomedical field, as well as a background revising/rewriting scientific manuscripts and summarizing information accurately for nonscientists. Excellent interpersonal skills are a must. Experience writing/editing for a scientific journal and soliciting manuscripts is highly desirable.

We offer competitive salaries and great benefits, plus a professional work environment. For immediate consideration, please send/FAX résumé with salary expectations as soon as possible to:

**Human Resources Department SE-SCIENCE**  
**Oxford University Press**  
2001 Evans Road  
Cary, NC 27513-2010  
FAX: 919-677-2673  
E-mail: [humanres@oup-usa.org](mailto:humanres@oup-usa.org)  
Website: [www.oup-usa.org](http://www.oup-usa.org)

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

### PLANT ECOLOGIST

Illinois Natural History Survey. The ecologist, working in a statewide biological assessment program established by contract with the Illinois Department of Transportation (IDOT), will be responsible for conducting vegetation surveys in proposed IDOT project areas, describing noteworthy plant communities, and occurrences of threatened and endangered species. Other duties include a program of independent research. Requires M.S. or Ph.D. in plant biology or related field, strong knowledge of Midwestern vegetation, skills in habitat assessment, understanding of relevant principles in conservation biology, and ability to design and implement quantitative sampling regimes for vegetation. Candidates that possess the required skills will be preferred regardless of degree earned. Salary: M.S.: \$28,000 to \$34,000; Ph.D.: \$38,000 to \$40,000. Generous benefits. For complete position announcement and to apply, submit cover letter; résumé; and names, addresses, and telephone numbers for four references to: **Ms. Sue Key, Human Resources Manager, Plant Ecologist (PRF # 622A), Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820. Telephone: 217-244-7790. Deadline for application is 31 March 2000.**

**RESEARCH LEADER:** The United States Department of Agriculture (USDA) Agricultural Research Service has an opening for a Supervisory Research Entomologist (Research Leader and Location Leader) for the Western Integrated Cropping Systems Research Unit in Shafter, California. The successful applicant will lead a group of four scientists conducting research to develop and improve cropping systems and improve management of cotton and other agronomic crops in the irrigated San Joaquin Valley and conduct personal research on the development of new technologies for control or elimination of important cotton pests, with emphasis on control of tarnished plant bug, aphids, mites, and white flies. Salary is commensurate with experience (GS-14 or GS-15, from \$70,457 to \$107,738 per annum). The announcement opens January 18, 2000, and closes February 29, 2000. The vacancy announcement may be viewed on the ARS home page: [www.ars.usda.gov/afm/hrd/resjobs](http://www.ars.usda.gov/afm/hrd/resjobs). See announcement ARS-X0W-0128. For application package, contact: **Denice Chambers; Telephone: 209-453-3005. U.S. citizenship is required. USDA/ARS is an Equal Opportunity Provider and Employer.**

## POSITIONS OPEN



The Pediatric Oncology Branch (POB) is searching for a **TENURE-TRACK SCIENTIST** to conduct laboratory and clinical studies in pediatric cancer. The successful candidate will develop a translational research program aimed at developing improved therapeutic approaches to the treatment of pediatric malignancies. Candidates must be capable of running an independent laboratory program and have expertise in biomedical research. Resources will include laboratory space, equipment, and supplies, as well as support for two Postdoctoral Fellows and one technician. Candidates must have an M.D., Ph.D., or equivalent. The POB is committed to improving the outcome of children with cancer through translational research approaches. Ongoing areas of research include sarcomas, brain tumors, developmental therapeutics, and supportive care. The POB website can be accessed at: <http://www-dcs.nci.nih.gov/pedonc/Index.html>. Interested candidates should send a cover letter, curriculum vitae, statement of research interests, and three letters of reference to: **Chairman, Search Committee, Pediatric Oncology Branch, National Cancer Institute, Building 10, Room 13N240, 10 Center Drive, MSC 1928, Bethesda, MD 20892-1928.** The deadline for submitting applications is March 31, 2000. *The National Cancer Institute is an Equal Opportunity Employer.*

### DIRECTOR MICROSCOPY FACILITY

The Department of Cell and Molecular Biology seeks an individual with expertise in modern light microscopic techniques to direct the Cell Imaging Facility and to work closely with an active group of PIs from numerous departments in the Medical School. This modern facility has two TEMs and all ancillary equipment, two confocal microscopes, a deconvolution microscope, and several light microscopes equipped with advanced digital imaging capabilities. The Director will oversee the facility and guide its development by implementing cutting-edge techniques, working closely with researchers, and helping write instrumentation and other grant proposals. The Director should be familiar with confocal and digital imaging techniques, microinjection, visualization of living cells containing fluorescent probes, photobleaching, and fluorescence *in situ* hybridization. This is an exciting opportunity to work closely with top researchers during a rapid phase of research development in the basic biomedical sciences. Qualifications: Ph.D. degree and three or more years of relevant experience. Salary is commensurate with experience. Send letter, résumé, and names of three references to: **Dr. Ed Kuczmarski, Cell and Molecular Biology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL. FAX: 312-503-0954; e-mail: [kuczmarski@nwu.edu](mailto:kuczmarski@nwu.edu).** Closing date for receipt of applications is March 10, 2000.

*Northwestern University is an Equal Opportunity/Affirmative Action Educator and Employer and invites applications from all qualified individuals. Applications from women and minorities are especially sought.*

### SCIENTIST POSITIONS

OriGene Technologies, Inc., is a rapidly growing gene discovery company located at the heart of the Maryland biotechnology corridor. The company is seeking highly qualified applicants for the following positions: (1) Molecular Biology/Enzymology, with Ph.D. and experience in cDNA synthesis and library construction; (2) Bioinformatics, with Ph.D./M.S. and experience in using bioinformatic tools and public databases to facilitate gene discovery; and (3) Large-Scale DNA Sequencing, with Ph.D./M.S. and experience in managing a DNA sequencing facility. Title and compensation commensurate with experience. Applicants should send curriculum vitae and names of three references to: **James A. Riley, OriGene Technologies, Inc., 6 Taft Court, Suite 300, Rockville, MD 20850.**

## POSITIONS OPEN

### ASSOCIATE DIRECTOR NATURAL RESERVE SYSTEM

Vice President, Agriculture and Natural Resources. Salary: \$62,500 to \$112,500 commensurate with qualifications. (Note: Please submit names, addresses, and telephone numbers of four references with application materials). Responsibilities: The Associate Director supports the Natural Reserve System (NRS) Director across the full range of NRS activities and programs. Provides administrative, business, paralegal, environmental policy, real estate, and promotional skills and expertise. Supervises NRS systemwide office operations (including environmental planning, real estate, publications, and administration); coordinates budget planning and development; and develops administrative policies. Initiates, coordinates, and completes complex real estate transactions; serves as primary liaison with external agencies and organizations; and provides coordination and support for fund-raising activities. Provides support to NRS advisory and support committees. NRS website: <http://nrs.ucop.edu/>. Qualifications: Broad, state-of-the-art knowledge and specialized skills and expertise in natural resource issues and related fields; negotiation techniques; paralegal aspects of real property transactions and agreements; personnel supervision; budgeting and accounting; fund-raising; grant proposal writing; and environmental planning. Well-developed oral and written communication skills. Substantial professional experience. Closing date: Review will begin immediately and continue until filled. To respond: Submit letter of application; résumé; and the names, addresses, and telephone numbers of four references to: **University of California, Office of the President, Human Resources and Benefit Services, Job Number 0221-99P, 1111 Franklin Street, Ninth Floor, Oakland, CA 94607-5200. E-mail: [apply-l@ucop.edu](mailto:apply-l@ucop.edu) (enter the job number on the subject line); FAX: 510-987-0894. Affirmative Action/Equal Opportunity Employer.**

### RESEARCH INVESTIGATOR/ RESEARCH SCIENTIST

The Department of Surgery at the University of Michigan seeks candidates for a faculty position in the area of gastrointestinal physiology. Applicants should have extensive research experience in the application of microspectrofluorimetry to the study of intracellular ion concentrations, confocal microscopy, and related cellular biological techniques. Competitive applicants will have a Ph.D., with at least two years of postdoctoral experience and a record of research productivity. The candidate will be expected to participate in an extramurally funded research program and to teach medical students and research fellows. We offer an interdisciplinary research environment, competitive salary, and research space. Please send inquiries, along with current curriculum vitae, to: **Michael W. Mulholland, M.D., Ph.D., Department of Surgery, 2922TC, 1500 East Medical Center Drive, Ann Arbor, MI 48109-0331. The University of Michigan is a Nondiscriminatory/Affirmative Action Employer and strongly encourages females and minorities to apply.**

**BIOLOGY:** The Department of Biology at Emory & Henry College invites applications for a one-year position with the possibility of converting to tenure track at the **ASSISTANT PROFESSOR** level to begin fall 2000. Ph.D. or A.B.D. Teaching responsibilities include comparative anatomy, developmental biology, human anatomy, and general biology. Participation in the College's general studies program is desired. Seeking candidates committed to teaching excellence and to developing collaborative research with students. Emory & Henry is a private, liberal-arts, church-related college with an enrollment of 1,000 students. Applicants are invited to view the College's home page at website: [www.ehc.edu](http://www.ehc.edu). Apply by March 15, 2000, with curriculum vitae, transcripts, letter describing teaching philosophy and research interests, and three letters of recommendation to: **Dr. James M. Dawsey, Dean of Faculty, Biology Search Committee, Emory & Henry College, P.O. Box 947, Emory, VA 24327-0947.**



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### Scientific Software Development Manager

You will provide technical direction & project management to a programming team to develop scientific software applications for pharmaceutical research; define requirements for new applications & specify enhancements to existing ones; and oversee deployment of completed applications. Requires an MS in biology, chemistry or a related discipline; 2-4 years' experience developing software applications; and working knowledge of 2 or more of: Java, C++, web technology (HTML, servlets, XML, web server management). **Job Code RCA002**

### Scientific Programmer

You will design & implement new algorithms and apply existing computational techniques in these areas: QSAR & diversity analysis for large compound populations, physico-chemical property prediction, and pharmacophore analysis. Requires a Ph.D in computational chemistry, molecular modeling, or a related discipline; 0-3 years' experience; and proficiency in applications programming. Experience with web-based application design preferred. **Job Code RCA001**

### Applications Programmer

You will design, develop, test, and deploy web-based, scientific applications; interact with end-users to develop specifications; investigate, prototype, and implement new technologies; and help deploy applications. Requires a BS in Computer Science, Biology, or Chemistry; 2 years' experience developing user applications; strong data management & analysis skills; and fluency in Java, JavaScript, HTML, and Oracle/SQL on UNIX and Windows NT platforms. Experience with chemistry & biology a plus. **Job Code PEG002**

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## Expanding the Powers of Research



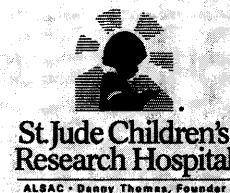
*St. Jude Children's Research Hospital is an internationally renowned research and treatment center for children with catastrophic diseases – primarily pediatric cancers. The scientists at St. Jude are committed to biomedical research that seeks to understand the molecular causes of disease, improving diagnosis and treatment, minimizing immediate and long-term side effects, and ultimately – to finding a cure for those diseases. We have recently embraced a 5-year, \$1 billion dollar expansion project to support our continuing research. This expansion brings new and exciting career opportunities for motivated professionals in the following areas:*

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St. Jude is located in Memphis, Tennessee, a city rich in history and culture stretching from the banks of the mighty Mississippi to the rolling green hills of eastern Shelby county. To learn more about St. Jude, the positions we have available and our home in Memphis, please visit our web site. For immediate consideration, e-mail, fax or mail your resume to:

**St. Jude Children's Research Hospital**  
Human Resources Department  
332 North Lauderdale  
Memphis, TN 38105  
E-mail: [virgil.holder@stjude.org](mailto:virgil.holder@stjude.org)  
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[www.stjude.org/hr](http://www.stjude.org/hr)



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## GLOBAL OPPORTUNITIES



### UNITED ARAB EMIRATES UNIVERSITY FACULTY OF MEDICINE AND HEALTH SCIENCES DEPARTMENT OF MEDICAL MICROBIOLOGY

#### Assistant/Associate Professor/Full Professor of Virology

The Faculty of Medicine and Health Sciences, United Arab Emirates University invites applications for faculty positions in Virology. The successful candidates shall provide undergraduate teaching of virology, participate in graduate program development and research and/or provide clinical leadership. FMHS operates an integrated/problem-based curriculum and provides research opportunities in a new state of the art medical school complex with two associated referral hospitals.

**Applicants** should hold a PhD and/or a MD degree, with evidence of advanced training, experience in teaching medical students, research productivity, and familiarity with USMLE and MCCEE.

**Faculty** receive tax-free salary, generous leave, and support for accommodation/furnishings, annual air fares, educational assistance for up to three children, and international conferences.

**Further information** may be obtained at <http://www.uaeu.ac.ae> or from Professor M L Lukic, Acting Chair, +971-3-7039514/7672000 (tel), +971-3 -7671966 (fax) or e-mail: [raghavan@uacu.ac.ae](mailto:raghavan@uacu.ac.ae)

**Applications** should include full CV and publication list, names/addresses/e-mail/fax of five referees, and letter indicating position sought, depth of interest, experience, AND suitability for the post, sent to:

The Dean, (c/o Mr. C. P. Nair), Faculty of Medicine and Health Sciences  
UAE University, P O Box 17666, Al Ain, United Arab Emirates

**Applications open until positions are filled, however, we expect successful candidates to be in place before August 31, 2000.**

## POSITIONS OPEN

### FACULTY POSITION IN PHYSIOLOGY

The Department of Physiology at Loyola University Chicago Stritch School of Medicine seeks applicants for tenure-track positions at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Applicants (with Ph.D., M.D., or equivalent) are expected to establish a strong research program. More senior applicants should have a strong record of research productivity and extramural support. Applicants whose research complements and extends existing research strengths in cellular and molecular aspects of cell signaling mechanisms are especially encouraged (see website: [www.meddean.luc.edu/lumen/DeptWebs/physio/index.html](http://www.meddean.luc.edu/lumen/DeptWebs/physio/index.html)). Send letter and curriculum vitae, including research plans and names of three references, to: **Stephen L. Lipsius, Ph.D., Faculty Search Committee, Department of Physiology, Loyola University Chicago, 2160 South First Avenue, Maywood, IL 60153.** *Loyola is an Equal Opportunity/Affirmative Action Employer.*

**RESEARCH ASSISTANT PROFESSOR.** The Department of Medicine, Division of Gastroenterology and Hepatology, University of Alabama at Birmingham, seeks qualified scientist for research program in mucosal HIV-1 disease. Ph.D. or M.D. candidate should have exceptional laboratory experience and skills in mucosal immunology (isolation, purification, and characterization of primary intestinal cells); HIV virology (host cell-virus interaction studies, tissue culture of viruses, sequence analysis); and molecular and cell biology (manipulation and characterization of DNA and RNA, gene amplification using PCR techniques, FACS analysis and cell sorting). Salary commensurate with experience and qualifications. Send curriculum vitae, statement of research experience and interests, and three letters of recommendation to: **Dr. Phillip D. Smith, Department of Medicine, UAB, 703 South 19th Street, Birmingham, AL 35294.**

The Department of Pathology and Laboratory Medicine at the University of Pennsylvania is accepting applications for a **TENURE-TRACK FACULTY POSITION** available January 1, 2001. The candidate should possess a Ph.D. or M.D./Ph.D. and a record of research experience in molecular immunology/T cell biology. Academic rank will be commensurate with experience. Please submit curriculum vitae, names and addresses of three references, and a statement of research interest to: **Mark I. Greene, M.D., Ph.D., Vice Chair, Immunobiology, 252 John Morgan Building, 3620 Hamilton Walk, Philadelphia, PA 19104-6082.**

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

### UNIVERSITY OF PENNSYLVANIA

**RESEARCH SPECIALIST.** Work independently on research experiments investigating mechanisms of cell motility using cell culture and protein purification. Assist in planning experiments, analyzing data, preparing manuscripts, and maintaining laboratory equipment. B.A./B.S. in biology, chemistry, or molecular biology. Experience in molecular biology techniques and cell culture preferred. Send résumé and cover letter to: **Dr. H. Shuman, University of Pennsylvania, School of Medicine, D700 Richards Building, 3700 Hamilton Walk, Philadelphia, PA 19104-6083. FAX: 215-898-2653; e-mail: schuman@mail.med.upenn.edu.**

**POSTDOCTORAL POSITION** in ecosystem ecology to assist in research on the cycling and retention of nitrogen and other nutrients in forest ecosystems of the northeastern United States. Ph.D. required in ecology, soils, biogeochemistry, or a related field. One-year renewable appointment. Send application letter, curriculum vitae, and three letters of reference by March 15, 2000, to: **Gary M. Lovett, Institute of Ecosystem Studies, Box AB, Millbrook, NY 12545-0129. E-mail: lovettg@ecostudies.org.** *An Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

Graviton, Inc., has three openings for **SENIOR SCIENTISTS** and/or **ENGINEERS** to develop low-cost microfabricated gas sensors for environmental and process-monitoring applications. The successful candidates will build up a research and development laboratory; apply patterned thin films to microfabricated sensors; and/or design, characterize, and optimize microcantilever-based gas sensors. A Ph.D. in a field such as physical chemistry, applied physics, materials science, or chemical engineering is required. In addition, approximately three years of experience in at least two of the following fields is desired: gas sensors, microfabricated sensors, palladium/hydrogen chemistry, and high-vacuum physical vapor deposition (particularly sputter coating).

Graviton, Inc., was founded in 1999 in La Jolla, California, and is focused on the convergence of low-cost wireless data acquisition, self-organizing sensor networks, and distributed data management. Graviton provides a wide range of Internet-based monitoring systems and information management services. Initial target markets include industrial process monitoring, environmental measurement, medical devices, and consumer products.

Interested candidates should submit résumés to: **David Baselt, Graviton, Inc., 11588 Sorrento Valley Road, Suite 16, San Diego, CA 92121. E-mail: dbaselt@gravitoninc.com.**

**SENIOR SCIENTIST, RESEARCH AND DEVELOPMENT.** We are seeking an individual with working knowledge of protein modification techniques to develop chemiluminescent antibody conjugates for immunoassay products. Hands-on experience in preparing bioconjugates, protein purification, and bioanalytical methods are key requirements. Prior experience in immunodiagnostic product development would be a plus.

A Ph.D. in biochemistry or related field with at least two years of industrial experience is required. Candidate must have demonstrated ability to solve challenging problems and independently design experiments. Strong technical background, good communication skills, and the ability to function as a member of a multidisciplinary team are essential.

Please e-mail curriculum vitae to: **mottev@questdiagnostics.com**; **FAX: Human Resources at 949-240-5361.** Mail curriculum vitae to: **Nichols Institute Diagnostics, Attention: Human Resources, 33051 Calle Aviador, San Juan Capistrano, CA 92675.**

The HIV and AIDS Malignancy Branch, National Cancer Institute, NIH, seeks a highly motivated molecular **BIOLOGIST** or **VIROLOGIST** to be a technician to study the RNA processing and carcinogenesis of papillomaviruses, HHV8, or HIV. Computer skills and some tissue culture skills are highly desired. This is a GS-9 interdisciplinary position and may be filled by a qualified Biologist, Microbiologist, or Chemist. This is a two-year, full-time term appointment that may be extended to four years. Salary range: \$35,310 to \$45,900/year. U.S. citizenship is required. Please **Telephone: 301-402-2789** for complete vacancy information or request a **FAX at 301-594-2953**; visit our website: **<http://careerhere.nih.gov/>**. The announcement number is NCI-00-0903 and FAX I.D.: 1841. This position opens February 18, 2000. Application packages must be postmarked by March 6, 2000. *NIH is an Equal Opportunity Employer.*

**POSTDOCTORAL POSITIONS** are available to study cytokine receptor function *in vivo* using transgenic and gene knockout mouse models. Projects include defining the molecular basis by which the IL-7 receptor regulates thymic development or the mechanism by which the IL-2 receptor regulates T cell-mediated autoimmunity. Prior experience in immunology and/or receptor signal transduction preferred. Send curriculum vitae and names of three references to: **Dr. Thomas Malek, Department of Microbiology/Immunology, University of Miami School of Medicine (R138), P.O. Box 016960, Miami, FL 33101. FAX: 305-243-4623; e-mail: tmalek@med.miami.edu.** *An Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### BIOCHEMIST/MOLECULAR BIOLOGIST

The Department of Biological Sciences at Clemson University invites applications for a tenure-track faculty appointment at the level of **ASSISTANT PROFESSOR**.

We are seeking a Biochemist/Molecular Biologist with expertise in the area of enzymology. Postdoctoral experience is required. Candidates will be expected to develop a competitive, extramurally funded research program and to train M.S. and Ph.D. degree candidates. He or she will also be expected to teach a graduate-level course in enzymology and contribute to undergraduate/graduate courses in molecular biology and general biochemistry. We encourage applicants whose research can augment our program in plant biotechnology and functional genomics. The Clemson University Genomics Institute occupies a state-of-the-art facility, which is scheduled to move into a new \$27 million dollar molecular biology research building currently under construction. To apply, submit a letter of application, a curriculum vitae, research support, at least three names and e-mail addresses of suitable references, and a research plan. Address the letter to: **Chairman, Search Committee, 132 Long Hall, Clemson University, Clemson, SC 29634.** Electronic applications may be sent to e-mail: **sheryl@clcmson.edu**; include "Assistant Professor Search" on the subject line. Attachments should be compatible with WinWord. Consideration of applications begins immediately and will continue until a hire is made. The last day for receipt of applications is May 1, 2000. Information about the research interests of the faculty and Departmental resources may be obtained at the Department's home page: **<http://hubcap.clemson.edu/biosci/>**. *Clemson University is an Equal Employment Opportunity/Affirmative Action Employer. We especially encourage minorities and women to apply.*

College of Marin is located 12 miles north of San Francisco. College of Marin is the community's major center for higher learning. It plays a vital role as an educational, economic, social, and cultural resource for the entire community. Currently, we are inviting application for the following position: **FULL-TIME, TENURE-TRACK BIOLOGY INSTRUCTOR** for fall 2000, Job # 1639.

The College of Marin seeks a Human Biologist/Ecologist with expertise in one or more of the following areas: general biology, anatomy, physiology, soil biology, environmental microbiology, mycology, ichthyology, field biology, or environmental science. Minimum qualifications: a California Community College credential in the subject or a Master's degree in any biological science; or a Bachelor's degree in any biological science and a Master's degree in biochemistry, biophysics, or marine science or equivalent.

Extensive fringe benefit package. To request a detailed job description and application materials, please call the Human Resources Department 24-hour recording, **Telephone: 415-485-9567** or e-mail: **hrjobs@marin.cc.ca.us**. Deadline to submit application materials is March 9, 2000. *College of Marin is an Affirmative Action/Equal Employment Opportunity Employer.*

### POSTDOCTORAL POSITION MOLECULAR VIROLOGY

**POSTDOCTORAL FELLOWSHIP** available immediately in the University of Florida Shands Cancer Center to study molecular mechanisms of gene regulation in transforming herpes viruses. NIH-funded projects include the study of (1) posttranscriptional activation by Epstein-Barr virus proteins and (2) transformation of endothelial cells by human herpes virus 8, the agent of Kaposi's sarcoma. Candidates should have a strong background in molecular biology and interest in virology. Candidates may send their curriculum vitae and the names of three references to: **Dr. Sankar Swaminathan, University of Florida, Shands Cancer Center, Box 100232, Gainesville, FL 32610-0232. E-mail: sswamina@ufl.edu.** *The University of Florida is an Equal Employment Opportunity/Affirmative Action Employer.*

**UNIVERSITY OF NEW HAMPSHIRE  
DEAN  
COLLEGE OF LIFE SCIENCES AND AGRICULTURE**

The University of New Hampshire invites nominations and letters of application for the position of Dean of the College of Life Sciences and Agriculture. The College consists of eight academic units; the Thompson School of Applied Science, Animal and Nutritional Sciences, Biochemistry and Molecular Biology, Microbiology, Natural Resources, Plant Biology, Resource Economics and Development, and Zoology; enrolls 1,860 undergraduate majors, 400 associate degree students, and 129 M.S. and 84 Ph.D. students. Reporting to the Provost, the Dean is responsible for the administration of the College's academic programs in biological sciences, natural resources, agriculture, social sciences, interdisciplinary biology and genetics programs and affiliated research centers. As the College's chief administrator, the Dean participates in university governance as a member of the Dean's Council.

**Qualifications:** Earned doctorate, a record of teaching and scholarship appropriate to an appointment as a tenured professor in one of the College's departments, leadership skills to work effectively with faculty, students, administrators and diverse constituencies outside of the University. The successful candidate will have successful administrative experience including personnel and program management, evaluation and development, budget development and management, significant record of accomplishment in teaching and research.

**Applications:** Nominations and letters of application should include the name, address, phone and email address of five references, and should be submitted to:

**COLSA Dean Search Committee  
Office of the Provost and VP for Academic Affairs  
Thompson Hall 207  
University of New Hampshire  
Durham, NH 03824**

**The Committee will begin review of applications immediately and will continue until the position is filled. Date of appointment will be no later than July 1, 2000.**

UNH is strongly committed to achieving excellence through diversity. The University actively encourages applications and nominations of women, persons of color, people with disabilities, and members of other underrepresented groups.

# Postdoctoral Positions

**University of Connecticut Health Center**

Postdoctoral positions available to study the mechanisms and function of signal transduction activated by seven transmembrane receptors. The laboratory uses various molecular and cell biological, biochemical and transgenic approaches. Self-motivated individuals trained in molecular and cell biology, genetics, and/or biochemistry are encouraged to apply.

Send CV and three letters of recommendation to  
*Dr. Dianqing Wu, Department of Genetics  
and Developmental Biology ... or email to:  
Dwu@neuron.uchc.edu*



**University of Connecticut  
Health Center**

263 Farmington Avenue, MC 3301  
Farmington, CT 06030-3301

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## RADIATION BIOLOGIST

**Radiation Effects Research Foundation  
Hiroshima and Nagasaki, Japan**

The US National Academy of Sciences is currently seeking a Biologist to work in the Department of Radiobiology at the Hiroshima laboratory of the Radiation Effects Research Foundation (RERF). The Foundation is engaged in the continuing mortality and morbidity follow-up and clinical/laboratory studies of atomic bomb survivors and their children. RERF's findings on the continuing cancer risks are the primary basis for worldwide radiation protection standards. Innovative multi-disciplinary molecular and cellular research is needed to clarify the mechanisms by which radiation exposure leads to cancer and non-cancer diseases. The Biologist would have the opportunity to utilize RERF's unique and valuable resources of biologic materials and to collaborate in molecular mechanistic studies in genetics, cytogenetics, cellular and molecular biology, immunology, and biochemistry.

For this position, we require a Ph.D. in biological sciences, with training and experience in molecular biology, evidence of an interest in radiation biology, and evidence of substantial productivity in relevant research areas. Salary is commensurate with experience and supplemented by relocation, cost-of-living, home leave, and other benefits. Typical assignments are for 2 years, with extensions possible.

For consideration, please forward your resume, cover letter, E-mail address/fax number, and 3 professional references to: Dr. Evan B. Douple, Director, Board on Radiation Effects Research, The National Academies, (NAS 342-ED), 2101 Constitution Avenue, NW, Washington, DC 20418. Fax: (202) 334-1639. E-mail: edouple@nas.edu EOE, M/F/D/V.

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## POSITIONS OPEN

### TWO POSTDOCTORAL POSITIONS SPINAL CORD INJURY RESEARCH

The University of Kentucky Spinal Cord and Brain Injury Research Center is expanding its program in spinal cord injury research. Two Postdoctoral positions are available to study the cellular and molecular events regulating apoptotic cell death in traumatic spinal cord injury. One position focuses on the use of adenoviral vectors for transplantation of apoptotic genes into the injured spinal cord. The second position focuses on the extra- and intracellular events controlling the apoptotic machinery in neurons and oligodendroglia. Applicants must have experience in molecular biology/cloning and cell culture (first position) and molecular/biochemical and animal models of CNS injury (second position). Fellowships are \$28,000 to \$32,000 based on experience. Mail, FAX, or e-mail letter of interest/background, curriculum vitae, and names of three references to: **Dr. Joe E. Springer, Department of Anatomy and Neurobiology, University of Kentucky Medical Center, 800 Rose Street, Lexington, KY 40536-0084. E-mail: jpspring@pop.uky.edu.**

### POSTDOCTORAL POSITION

Immediate openings for **POSTDOCTORAL FELLOW** appointments are available at Massachusetts General Hospital and Harvard Medical School in Boston, Massachusetts. Available positions are in the areas of cardiovascular physiology, biochemistry, and/or NMR spectroscopy. Fellows will work closely with group members on a range of *in vivo*, *ex vivo*, and *in vitro* preparations to manipulate models of heart disease at the whole-organ and molecular levels. Candidates must hold either a Ph.D. or M.D. degree and have experience in NMR, biochemistry, or cardiac physiology.

Interested applicants should send a curriculum vitae and arrange for three letters of reference to be forwarded to the following address:

**E. Douglas Lewandowski, Ph.D.**  
Director, Metabolic Research Laboratory  
Massachusetts General Hospital  
Harvard Medical School  
Building 149, 13th Street, Room 2309  
Charlestown, MA 02129  
E-mail: doug@nmr.mgh.harvard.edu

**EVOLUTIONARY BOTANIST.** Vassar College Department of Biology is seeking an Evolutionary Biologist or Ecologist to teach "The Evolution of Biological Diversity" (introductory level), "Plant Structure and Diversity" (intermediate level), and genetics (intermediate level). This is a sabbatical replacement position for the 2000-2001 academic year. Ph.D. and commitment to undergraduate teaching and research are required. Applicants should send curriculum vitae, statement of teaching interests, and three letters of reference to: **Dr. David K. Jemiolo, Chair, Department of Biology, Box 731, Vassar College, 124 Raymond Avenue, Poughkeepsie, NY 12604-0731.** Information about the department is available at website: <http://depts.vassar.edu/~biology/>. Vassar College is an Equal Opportunity/Affirmative Action Employer.

Neose Technologies, Inc., a leader in the development of enzymatic synthesis of carbohydrates, is currently seeking **PH.D.-LEVEL SCIENTISTS** to join our Molecular Biology department. Successful candidates will have experience in DNA cloning and manipulation, as well as protein expression in both prokaryotic and eukaryotic systems. The ability to interact with a diverse group of scientists across several disciplines is required. Postdoctoral experience is desirable. Please send curriculum vitae and the names of three references to: **Human Resources Department MB200, Neose Technologies, Inc., 102 Witmer Road, Horsham, PA 19044. E-mail: skeller@neose.com.**

## POSITIONS OPEN

NIH-funded **POSTDOCTORAL POSITIONS** available at the Tykeson Multiple Sclerosis Research Laboratory for Biochemists/Molecular Biologists with recent Ph.D.s to join multidisciplinary team investigating T lymphocyte signal transduction and rational drug design. Projects include: (1) structural and binding studies of MHC-derived recombinant TCR ligands (RTLs) by site-directed mutagenesis, (2) X-ray crystallographic and solution-binding studies of MHC-derived molecules and recombinant TCRs, and (3) *in vitro* and *in vivo* mechanistic studies toward understanding T lymphocyte activation at the molecular level (*J. Immunol.* 161:5987-5996, 1998; *Protein Engineering* 12:771-778, 1999). Experience in heterologous protein expression in bacteria and/or BLAcore/biophysical techniques is highly desirable. Excellent opportunities for collaborative studies with crystallographers, physical biochemists, and cellular immunologists. Send curriculum vitae and names of three references to: **Dr. Gregory G. Burrows, Oregon Health Sciences University, L-219, Portland, OR 97201. E-mail: ggb@ohsu.edu.**

### AQUATIC ECOLOGY/TOXICOLOGY

**A SABBATICAL REPLACEMENT POSITION** beginning August 2000. The position is a joint appointment in the Departments of Biology and Environmental Science with potential for renewal for a second year. We seek individuals with a strong commitment to liberal arts education, excellence in teaching, and an active research program that involves undergraduates. Teaching during the first year will include an upper-level course in aquatic biology, preferably toxicology; a general biology course for non-majors; a team-taught investigative laboratory course in biology; a team-taught introductory course in environmental science; and advising senior research projects. Ph.D. required. Send curriculum vitae, statements of teaching and research interests and three letters of recommendation by March 24, 2000, to: **Dr. Scott Wissinger, Department of Biology, Allegheny College, Meadville, PA 16335.** Allegheny is an Equal Opportunity Employer. Women and minorities are strongly encouraged to apply.

**POSTDOCTORAL POSITIONS** available immediately to study the cellular and molecular basis of tumor progression/development. The NIH-funded project will focus on investigating (1) the roles of protein kinase C on cell proliferation and drug resistance, and (2) molecular mechanisms of cell-specific PKC gene expression. Ph.D. and/or M.D. with strong background in molecular/cell biology and protein chemistry required. Experience in signal transduction and gene regulation preferred. Send curriculum vitae and three references to: **Lei Xiao, Ph.D., University of Florida, Shands Cancer Center, 1600 S.W. Archer Road, Box 100232, Gainesville, FL 32610. E-mail: lxiao@ufl.edu.** The University of Florida is an Equal Employment Opportunity/Affirmative Action Employer.

**RESEARCH POSITIONS** available in the areas of molecular biology and genetics. Ph.D. or M.D. required. Applicants should send curriculum vitae, references, and a brief description of research interests to: **Lynn Egloff, Department of Molecular Biology, Princeton University, Lewis Thomas Laboratory, Princeton, NJ 08544. FAX: 609-258-3980.** Princeton University is an Equal Opportunity/Affirmative Action Employer.

**BIOLOGICAL SCIENCE, COMPUTER SCIENCE, and MATH INSTRUCTORS** sought by Diablo Valley College in Pleasant Hill, California. Tenure-track positions for one of California's premier community colleges. Salaries start at \$37,728; excellent benefits. Deadline is March 3, 2000. Applications from website: [www.dvc.edu](http://www.dvc.edu) or Telephone: 925-685-1230, extension 1929.

## POSITIONS OPEN

### ROTIFER AND MICROSCOPIC INVERTEBRATE FELLOWSHIP

The Academy of Natural Sciences, Philadelphia, is pleased to offer a unique opportunity for original **POSTDOCTORAL or SABBATICAL RESEARCH** on the systematics of freshwater microscopic invertebrates. The John J. and Anna H. Gallagher Fellowship for the Study of the Rarer Microscopic, Multicellular Invertebrate Animals, with Priority for the Study of Rotifera, requires a project be based at the Academy, although field work and visits to other museum collections are encouraged, and the scope should be narrow enough to permit completion during a period of up to 12 months. The research focus must be on systematics and may employ ecological, behavioral, molecular, or developmental tools. Applications should be received by 15 March 2000. Preferably, the project will start as soon as possible. Curriculum vitae; statement of research interests; description of the project (including salary request, research costs, and time frame); and the names and contact information of three references may be sent by e-mail or post (include e-mail address) to:

Gallagher Fellow Search Committee  
c/o Mark Isaksen  
Academy of Natural Sciences  
1900 Benjamin Franklin Parkway  
Philadelphia, PA 19103  
E-mail: isaksen@acnatsci.org  
FAX: 215-299-1028

### MOUSE CNS DEVELOPMENT

Three **POSTDOCTORAL POSITIONS** are available to study the molecular function of novel genes involved in murine neurogenesis. Approaches include the generation of targeted and transgenic mice, tissue culture systems, and biochemistry. Candidates with a strong Ph.D. background on ES cell manipulation, molecular biology, and/or biochemistry are encouraged to apply. Send a curriculum vitae and arrange to have three letters of recommendation forwarded to: **Jose Luis de la Pompa, Ph.D., Center for Aging and Developmental Biology, University of Rochester Medical Center, 601 Elmwood Avenue, Box 645, Rochester, NY 14642.**

### SYNAPTIC PLASTICITY

Multiple **POSTDOCTORAL POSITIONS** are available to utilize murine somatic mosaic analysis to study synaptic plasticity within the intact animal, slices, and dissociated cell culture. A strong background in molecular biology and neuroscience is desired. Send a curriculum vitae and arrange to have three letters of recommendation forwarded to: **Howard J. Federoff, M.D., Ph.D., Center for Aging and Developmental Biology, University of Rochester Medical Center, 601 Elmwood Avenue, Box 645, Rochester, NY 14642.**

### POSTDOCTORAL POSITION IN STRUCTURAL BIOLOGY

Available to determine the structure of serine proteases of therapeutic interest in collaboration with the laboratory of Prof. Gabriel Waksman. Contact: **Enrico Di Cera, Department of Biochemistry and Molecular Biophysics, Washington University School of Medicine, Box 8231, St. Louis, MO 63110. E-mail: enrico@caesar.wustl.edu.**

### RESEARCH ASSISTANT PROFESSOR SENIOR POSTDOCTORAL POSITIONS

Positions available to investigate regulatory mechanisms controlling germ cell differentiation. Projects include RNA-protein interactions that control translation and mRNA localization, gene targeting of testicular proteins as models for infertility, chromatin remodeling, and DNA microarray applications. Preference will be given to candidates with expertise in molecular biology. Send résumé and names of three references to: **Norman B. Hecht, Center for Research on Reproduction and Women's Health, 1310 BRB II, 421 Curie Boulevard, University of Pennsylvania, Philadelphia, PA 19104-6142.**

**National Institute of Environmental Health Sciences (NIEHS)  
National Institutes of Health (NIH)  
Department of Health and Human Services (DHHS)  
Director, Division of Intramural Research (DIR)  
HNV00-7**

The National Institute of Environmental Health Sciences in the National Institutes of Health is seeking exceptional candidates to fill the position of Director, Division of Intramural Research. The incumbent of this position will direct laboratory and clinical research through eighteen laboratories and branches with approximately 550 employees and 250 non-ceiling personnel, and an annual budget of approximately 140 million dollars. The Director, DIR, will serve as principal advisor to the Institute Director on scientific affairs involving multidisciplinary biomedical research programs; develops and recommends policies for the execution of research programs; determines effectiveness of current programs and recommends; and develops new and revised programs to meet national environmental health needs. The Division is organized into three scientific programs and the Office of Clinical Research which highlight the areas of research excellence of NIEHS-basic research, environmental toxicology, and environmental disease and medicine. These programs are highly interrelated, interactive, and synergistic. Using the multidisciplinary biomedical research approach, the mission of the DIR is to contribute to the basic understanding of biological and chemical processes, understanding of the contributions of environmental agents to human disease and dysfunction, and to the underlying mechanisms of environmentally associated diseases.

Candidates must have either a M.D. or Ph.D. or equivalent degree in an environmental health science discipline. Salary is commensurate with experience and level of accomplishments and will range up to \$200,000. A Recruitment Bonus of up to 25% of base pay or a Relocation Bonus of up to 25% of base pay may also be available.

Interested persons should send a curriculum vitae to:

**HRMB-(HNV00-7), NIEHS, PO Box 12233, (MD-EC-11), RTP, NC 27709 by March 31, 2000. You may call Carolyn London at 919-541-7513 for more information.**

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**EUROPEAN OPPORTUNITIES**

**MDC MAX DELBRÜCK CENTER  
FOR MOLECULAR MEDICINE  
BERLIN-BUCH**

The MAX DELBRÜCK CENTER FOR MOLECULAR MEDICINE (MDC) BERLIN-BUCH invites applications for the following position:

**Independent Group Leader Position**

**(5 years, Tenure track)**

**in the field of Molecular Cardiovascular Research**

We are seeking applications from outstanding individuals with research interests in one of the following areas: genetics, cell biology, developmental biology or molecular biology of cardiovascular disease. Applicants should have a strong background in the respective field. Expertise in genetic animal models of human disease is welcome.

Appropriate space, positions, and funds for a laboratory and its operation will be provided by the MDC; application for extramural funding from other sources is expected. The successful applicant will be specifically encouraged to engage in collaborative research with interested clinicians at the Franz Volhard Clinic for Cardiovascular Diseases, Charité, Campus Buch.

Applications (CV, list of publications and an outline of past and future research plans) should be sent to:

**Detlev Ganten, MD, PhD**

**Max Delbrück Center for Molecular Medicine (MDC) Berlin-Buch  
Robert-Rössle-Str. 10, D-13125 Berlin**

The deadline for applications is March 15, 2000.

The MDC is an equal opportunity employer and welcomes applications from women in order to increase the proportion of the female staff in research and teaching.

The MDC is a member of the Hermann von Helmholtz Association of National Research Centers supported by the Federal Government of Germany and by the city of Berlin.

For further information about MDC please visit our web site (<http://www.mdc-berlin.de>).

**Cephalon is a leader in the discovery and development of products to used treat neurological diseases and disorders. The following opportunity is available in West Chester, PA:**

**RESEARCH SCIENTIST**

Qualified candidate will have a MS degree in a related field with at least 8 years of experience, or a Ph.D. with postdoctoral experience in a related field with a minimum of 4 or more years of experience. Able to work in a team environment.

Individual will have broad expertise in molecular biology and protein biochemistry. CNS experience preferred. Position available on transgenic team involved in drug discovery for neurodegenerative disorders. **Position Code: DF**

Please send your resume, indicating **POSITION CODE** and salary requirements, to: **Recruitment Manager, CEPHALON, INC., 145 Brandywine Parkway, West Chester, PA 19380-4245. EOE, M/F/D/V.**



**Cephalon, Inc.**

An Equal Opportunity Employer.



**University of Pennsylvania  
Molecular Cardiology  
Program**

Postdoctoral positions are available in the following project areas:

- Analysis of the receptors and signaling pathways which mediate the activation of platelets and other vascular cells. Studies include manipulation of G protein signaling in platelets and identification of non-G protein-coupled platelet receptors. Dr. Mark L. Kahn: [markkahn@mail.med.upenn.edu](mailto:markkahn@mail.med.upenn.edu)
- Investigation of the transcriptional pathways involved in cardiovascular and pulmonary development. Studies include the characterization of transcriptional regulators involved in cardiac, smooth muscle and lung epithelial cell differentiation and proliferation. Dr. Edward E. Morrisey: [emorrise@mail.med.upenn.edu](mailto:emorrise@mail.med.upenn.edu)

The molecular cardiology program is located in the new, state of the art 385,000 sq. ft. Biomedical Research Building II at the University of Pennsylvania and provides a stimulating research environment. Core facilities exist for the generation of transgenic and knockout mice as well as histologic and in situ hybridization studies.

Applicants must have a Ph.D. and/or M.D. with a strong foundation in molecular biology.

Interested applicants should send their CV and the names of three references to:

**Kate Hankins  
Department of Medicine-Molecular  
Cardiology Program  
University of Pennsylvania  
953 BRB II/III  
421 Curie Blvd.  
Philadelphia, PA 19104**

**EUROPEAN OPPORTUNITIES**



**KAROLINSKA INSTITUTET**

**5 Post Doctoral Positions in Molecular Medicine**

The Center for Molecular Medicine and the Department of Molecular Medicine at Karolinska Institutet, Stockholm, Sweden, have 5 positions available for postdocs in the Molecular Medicine program.

This postdoctoral program provides excellent scientific training, new and modern research facilities as well as regular seminars for a more general training in the area of molecular medicine.

The Center for Molecular Medicine and the Department of Molecular Medicine presently consists of approximately 40 different research groups with a total of 400 scientists. Further information about on-going research is provided by the following home pages: <http://www.ki.se/cmm/> and <http://www.ki.se/molmed/>

Applicants will be reviewed by the recruitment board and selected applicants will be offered postdoctoral positions in the following areas of molecular medicine: inflammation, endocrinology, medical genetics and CNS function. The positions offered will have a duration of two years with possible extensions.

Applications, in two copies, should be sent to: Marie Tell, Chief Administrator, Dept. of Molecular Medicine, D2:02, Karolinska Hospital, SE-171 76 Stockholm, Sweden.

Deadline for applications is April 1, 2000.

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH ASSOCIATE BROOKHAVEN NATIONAL LABORATORY

The Physics Department of Brookhaven National Laboratory (BNL) has an opening for a Research Associate to study the structure of lipid-protein monolayers and multilayers at the air-water interface (Langmuir films), using synchrotron X-ray scattering techniques. Principal areas of investigation include the structure and phase behavior of membrane proteins and mixed monolayer systems. Work will be carried out at the National Synchrotron Light Source (BNL) and the Advanced Photon Source (Argonne National Laboratory). The position involves close cooperation between the Physics and Biology Departments at BNL. Requires a Ph.D. in physics, chemistry, or biology; experience in Langmuir film techniques, biophysics, and X-ray techniques is desirable. Under the direction of **B. Ocko** and **D. Schneider**.

Interested candidates should submit a curriculum vitae, recent reprints/preprints, and three letters of reference, indicating Position #MK8799, to: **M. Kipperman, Brookhaven National Laboratory, Building 185, P.O. Box 5000, Upton, NY 11973-5000**. BNL is an Equal Opportunity Employer committed to workforce diversity.

### SENIOR POSTDOCTORAL POSITION SLOAN-KETTERING INSTITUTE

Seeking **RESEARCH SCIENTISTS** with several years of postdoctoral experience who wish to assume a supervisory role in a laboratory focused on defining the molecular events underlying normal and malignant hematopoiesis. Applicants should have considerable expertise in the creation and analysis of knockout or transgenic mice; in gene chip/microarray technology; or in the study of signal transduction pathways, protein-protein interactions, or cell cycle regulation. Send a description of your research interests, curriculum vitae, and the names and telephone numbers of three references to: **Dr. Stephen D. Nimer, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, Box 575, New York, NY 10021**.

**POSTDOCTORAL POSITION** in immunology available immediately to study the molecular basis for the selective recruitment of lymphocytes, particularly gamma/delta T cells, into tissues. Opportunity to work with a committed group of investigators studying leukocyte trafficking with access to state-of-the-art equipment, such as digital imaging fluorescent microscopes, cell sorters, and DNA sequencers. Applicants must have cellular immunology and preferably molecular biology experience and ability to design appropriate experiments and write manuscripts. Send a letter of application, curriculum vitae, and have three letters of reference sent to: **Dr. Mark Jutila, Associate Professor and Head, Veterinary Molecular Biology, Montana State University, Bozeman, MT 59717-3610. FAX: 406-994-4303; e-mail: uvsjmj@montana.edu**. Americans With Disabilities Act/Affirmative Action/Equal Opportunity/Veteran's Preference.

Two **POSTDOCTORAL POSITIONS** available to study growth factor-induced drug resistance. Background in molecular biology is essential; experience in gene expression, signal transduction, antisense technology, microarray technology, receptor binding, and apoptosis is preferred. Send curriculum vitae and names of three references to: **Dr. Jessie Au, Ohio State University, 496 West 12th Avenue, Columbus, OH 43210. FAX: 614-688-3223; e-mail: au.1@osu.edu**.

Two **POSTDOCTORAL FELLOWSHIPS** are available in protein structure and function. Topics include allosteric enzymes and enzyme-catalyzed reactions. Send information to: **William N. Lipscomb, Department of Chemistry and Chemical Biology, Harvard University, 12 Oxford Street, Cambridge, MA 02138. Telephone: 617-495-4098; FAX: 617-495-3330; e-mail: lipscomb@chemistry.harvard.edu**.

## POSITIONS OPEN

**POSTDOCTORAL POSITIONS** available in the Division of Neuroscience within the Department of Oral and Maxillofacial Surgery and Diagnostic Sciences at the University of Florida College of Dentistry. The Division of Neuroscience is associated with the University of Florida Brain Institute. Research in the Division focuses on the physiology and molecular biology of ligand gated ion channels. Candidates should have a Doctorate with experience in electrophysiology or molecular biology. Send curriculum vitae to either: **Jianguo Gu, Ph.D., or Robert M. Caudle, Ph.D., Division of Neuroscience, Department of Oral and Maxillofacial Surgery, University of Florida College of Dentistry, P.O. Box 100416, Gainesville, FL 32610. E-mail: jgu@dental.ufl.edu or rcaudle@dental.ufl.edu**. Applications must be received by May 1, 2000, to be considered. *The University of Florida is an Equal Opportunity/Affirmative Action Institution.*

A funded **POSTDOCTORAL POSITION** is available to study the vitamin K-dependent gamma carboxylase, an enzyme essential for blood clotting and bone development and a target of anticoagulant therapies. A Ph.D. is required, and experience in biochemistry or a related field is desired. The projects available offer a broad-based training in protein secretion, structure-function, and regulation, using both biochemical and molecular biological approaches and the state-of-the-art facilities in the new Lerner Research Institute (see website: [www.ri.ccf.org/ri/pi/berknek.html](http://www.ri.ccf.org/ri/pi/berknek.html)). Candidates should send a curriculum vitae and telephone numbers for three references by e-mail: [berknek@ccf.org](mailto:berknek@ccf.org); or FAX: 216-444-9263; mail to: **Dr. Kathleen Berkner, Department of Molecular Cardiology/NB50, Lerner Research Institute, Cleveland Clinic, 9500 Euclid Avenue, Cleveland, OH 44195**.

### POSTDOCTORAL SCIENTISTS IMMUNOLOGY/TUBERCULOSIS

The Infectious Disease Research Institute (IDRI) is seeking Ph.D. and/or M.D. Postdoctoral Scientists to join our efforts in the diagnosis, treatment, and prevention of human infectious diseases. Successful candidates will have a cellular immunology background and work on the development of vaccine candidates for tuberculosis. Skills in human lymphocyte activation and cytokine biology are preferred. IDRI offers competitive salary and benefits in a progressive work environment. Please send curriculum vitae, statement of research interests and experience, and names of three references by March 17, 2000, to: **IDRI Job#00-01, 1124 Columbia Street, Suite 600, Seattle, WA 98104. FAX: 206-381-3678**. *Equal Opportunity Employer.*

### POSTDOCTORAL POSITION GENE THERAPY/TISSUE ENGINEERING OF BONE REGENERATION

A recent Ph.D. with a strong background in molecular/developmental biology is sought to participate in an NIH/NIDCR-sponsored research program aimed at developing novel strategies for bone regeneration involving viral and cell-based expression of regenerative molecules. This program seeks to exploit basic mechanisms of skeletal development to achieve clinically useful outcomes. To apply, send a résumé, including a list of publications and names of three references, to: **Renny T. Franceschi, Ph.D., University of Michigan School of Dentistry, 1011 North University Avenue, Ann Arbor, MI 48109-1078. Telephone: 734-763-7381; e-mail: rennyf@umich.edu**.

**POSTDOCTORAL POSITION** available immediately to study the role of neurotrophins (NGF and BDNF) in asthma using novel transgenic/knockout mouse models. Experience in molecular biology, lung biology, or transgenic models desirable. Send curriculum vitae and names of references to: **Gary Hoyle, Ph.D., Department of Medicine, SL-9, Tulane University School of Medicine, 1430 Tulane Avenue, New Orleans, LA 70112**.

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH POSITIONS

Postdoctoral positions in the neurobiology of alcoholism are available immediately at the University of Florida Center for Alcohol Research. This program provides multidisciplinary research training opportunities with participating faculty from the new multi-college University of Florida Brain Institute. Faculty research interests include molecular biology, neuropharmacology, biochemistry, neuroanatomy, electrophysiology, and the behavioral consequences of alcohol intake. Both adult and developmental models of alcohol neurotoxicity are being utilized. This is an NIH/NIAAA Institutional Training Grant, so only U.S. citizens and permanent residents are eligible. Send letter of application, including research interests, curriculum vitae, and the names of three references, to: **Dr. Marieta B. Heaton, Department of Neuroscience, University of Florida College of Medicine, P.O. Box 100244, Gainesville, FL 32610-0244. E-mail: heaton@ufbi.ufl.edu**. *The University of Florida is an Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL POSITION

The Department of Virology and Immunology at Southwest Foundation for Biomedical Research has a position available after March 1, 2000, to study anti-human immunodeficiency virus Type 1 (HIV-1) activity of antibody and cytokine genes in a primate model (*Nat. Med.* 3:659, 1997; *J. Immunol.* 160:1489, 1998; *J. Immunol.* 161:2642, 1998; *J. Immunol.* 163:906, 1999). Doctoral degree in immunology and/or virology required. A strong background in molecular biology and/or cellular immunology is essential. Working experience with virus is a plus. Please send a curriculum vitae and the names of three references to: **Dr. Paul Zhou, Department of Virology and Immunology, c/o Director of Human Resources (00-008), Southwest Foundation for Biomedical Research, P.O.B. 760549, San Antonio, TX 78245-0549**. See our website: <http://www.sfbr.org> for information on our research activities. *Equal Opportunity Employer.*

### POSTDOCTORAL POSITION

The Department of Cell and Molecular Biology at Tulane University anticipates filling a Postdoctoral position beginning July 1, 2000. The selected candidate will study the regulation and function of Hox genes in urogenital tracts using transgenics and gene-targeting technology. Candidates should have strong molecular biology experience. Experience working with mouse embryos is a plus. Send curriculum vitae and names of three references to:

**Dr. Liang Ma  
Department of Cell and Molecular Biology  
2000 Percival Stern Hall  
Tulane University  
New Orleans, LA 70118  
E-mail: ma@rascal.med.harvard.edu**

*Tulane University is an Equal Opportunity/Affirmative Action Employer and encourages minority and female applicants to apply.*

The HIV and AIDS Malignancy Branch, National Cancer Institute, NIH, seeks a **POSTDOCTORAL FELLOW** with five years or less of relevant postdoctoral experience in virology or molecular biology to study the RNA processing and carcinogenesis of papillomaviruses, HHV8, or HIV. Potential areas of research include identifying cis-acting signals in viral pre-mRNAs or trans-acting viral or cellular factors that promote RNA processing (*JV.* 70:4691; 71:9096; 73:29; *PNAS* 95:14088). Applicants must possess a Ph.D. and/or M.D. Appointment duration is for five years, renewed on a yearly basis. Stipend is commensurate with education and experience, with a range of \$31,500 to \$38,020. Please send curriculum vitae and three references to: **Dr. Zhi-Ming Zheng, HAMB, 9000 Rockville Pike, 10/6C206, Bethesda, MD 20892. FAX: 301-480-8250; e-mail: Zhengt@dc41.nci.nih.gov**. Applications must be received by April 18, 2000.





**Biophysics Research Institute  
is seeking a Postdoctoral  
Candidate in Functional MRI**

A postdoctoral position is currently available to study the underlying biophysical mechanisms of Functional MRI. In addition to fMRI of human volunteers, these studies will also include fMRI and Laser Doppler Flowmetry in animal models to examine the physiological mechanisms of fMRI contrast. Qualified candidates with a Ph.D. in Biophysics, Bioengineering, Physiology, or a related field are encouraged to apply. Send CV, statement of research background, interests, and three letters of reference to **Dr. B.B. Biswal, Medical College of Wisconsin, 8701 Watertown Plank Road, Milwaukee, WI 53226**. For more information email: [bbiswal@mcw.edu](mailto:bbiswal@mcw.edu).

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**GLOBAL OPPORTUNITIES**



**NATIONAL UNIVERSITY OF SINGAPORE  
Department of Biological Sciences  
Faculty Search**

The Department of Biological Sciences, National University of Singapore (NUS) invites applications for tenure-track faculty positions at Assistant Professorship, Associate Professorship or Professorship level.

NUS is in the same league as the 88 top "Research 1 Universities" in USA (Carnegie Classification) and faculty can expect at least the same salary levels and research support at these top universities. Major funding initiatives are planned to further enhance NUS research capabilities.

Preferences will be given to candidates who specialize in the following areas:

Structural biology, functional genomics and proteomics  
Plant and marine biotechnology  
Developmental and molecular biology of fishes  
Plant growth and development  
Ecology and biodiversity

Outstanding individuals with postdoctoral experiences and with strong commitment to research and teaching are encouraged to send their application, supported by a curriculum vita, a brief research plan and three letters of recommendation to:

**Professor Choy - L. Hew**  
Head, Department of Biological Sciences  
National University of Singapore  
14 Science Drive 4  
Singapore 117543  
Fax: (65) - 7795671  
Email: [dbshead@nus.edu.sg](mailto:dbshead@nus.edu.sg)

The deadline for complete applications is May 01, 2000.

Visit our web-site at <http://www.nus.edu.sg/NUSinfo/Appoint/sci-dbs.html> for links to information on the Department, the University, terms and conditions of service, and the application form.

**GLOBAL OPPORTUNITIES**



**NATIONAL UNIVERSITY OF SINGAPORE  
DEPARTMENT OF ANATOMY**

Applications are invited for an Assistant Professorship in the Department of Anatomy, Faculty of Medicine, National University of Singapore.

The successful applicant should possess an MBBS, BDS or BSc with a PhD degree (or equivalent) in neuroscience and should have had at least two years of postdoctoral experience. He/she is expected to teach human anatomy at both undergraduate and graduate levels, to conduct independent research, and to compete successfully for research funding from intramural and extramural sources. A medical background with research experience in molecular neurobiology will be an advantage.

Remuneration will be commensurate with qualifications and experience.

Applicants should send their curriculum vitae, a brief description of research plans, and the names and addresses of three referees to:

**Professor Ling Eng Ang**  
Head  
Department of Anatomy  
Faculty of Medicine  
National University of Singapore  
4 Medical Drive  
Singapore 117597  
Fax: (65) 778 7643  
E-mail: [anthead@nus.edu.sg](mailto:anthead@nus.edu.sg)

Closing Date: 30 September 2000

Visit our web-site at <http://www.nus.edu.sg/NUSinfo/Appoint/med-ant.htm> for links to information on the Department, the University, terms and conditions of service, and the application form.

*Only shortlisted candidates will be notified.*

## POSITIONS OPEN

### INTERESTED IN CLINICAL OR POSTDOCTORAL RESEARCH TRAINING?

The National Institutes of Health has both! For more information, visit our website which lists an array of clinical and postdoctoral opportunities, including tenure-track positions.

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

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

### POSTDOCTORAL POSITION MOLECULAR RETROVIROLOGY

Available immediately for NIH-funded programs operating in a highly productive environment. We work on the characterization of HIV-1 and host factors that protect against active viral infection *in vivo*, which may lead to the development of an HIV vaccine or strategies to enhance vaccine efficacy. A Ph.D. or M.D. or equivalent degree with background in molecular or cell biology is required. Experience with recombinant DNA technologies or cell line establishment (including construction of expression and target vector) and primary cell culture or use of viral gene transfer preferred. Job will remain open until filled. Send curriculum vitae and the names of three references to: **Dr. Tuofu Zhu, Department of Laboratory Medicine, University of Washington, P.O. Box 357110, 1959 N.E. Pacific Street, Seattle, WA 98195. FAX: 206-698-6189; e-mail: tzu@u.washington.edu.** University of Washington is an Equal Opportunity Employer.

**SENIOR INVESTIGATOR and POSTDOCTORAL POSITIONS:** Basement membrane laminins are central to tissue function, with mutations causing developmental defects that include muscle, nerve, and skin diseases. Positions are available within a matrix biology research group to study the molecular basis of laminin functions. Individuals should possess a Ph.D. or M.D. degree with experience in molecular biology and/or genetics, cell biology, or developmental biology. Level of appointment: Postdoctoral or Research faculty, and salary will be commensurate with training and experience. Please send curriculum vitae and names of references to: **Peter D. Yurchenco, M.D., Ph.D., Professor, Department of Pathology and Laboratory Medicine, Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854. E-mail: yurchenco@umdnj.edu; FAX: 732-235-4825; website: <http://orion.umdnj.edu>.** University of Medicine and Dentistry of New Jersey is an Affirmative Action/Equal Opportunity Employer, Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey.

### POSTDOCTORAL POSITIONS EMORY UNIVERSITY

Postdoctoral positions are available to study signal transduction pathways initiated by neurotransmitter and hormone receptors. Positions are NIH-funded and available immediately. For more information, please see our website: <http://www.emory.edu/PHARMACOLOGY/hallresearch/home.htm>. Please mail, FAX, or e-mail a curriculum vitae and the names of three references to: **Randy A. Hall, Ph.D., Department of Pharmacology, 5113 Rollins Research Center, Emory University School of Medicine, Atlanta, GA 30322. FAX: 404-727-0365; e-mail: rhall@pharm.emory.edu.** Emory University is an Equal Employment Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS** available immediately to characterize proteins involved in cholesterol transport. Experience in molecular/cellular biology or with mouse models is required. Send curriculum vitae and letters of recommendation to: **Dr. John F. Oram, Department of Medicine, Box 356426, University of Washington, Seattle, WA 98115-6426. E-mail: joram@u.washington.edu.**

## POSITIONS OPEN

### POSTDOCTORAL POSITION RESEARCH ON REGULATION OF HIV-1 RNA SPLICING

Postdoctoral position is available immediately for studies on regulation of HIV-1 RNA splicing. Cis elements regulating Tat, Rev, and Env/Nef splicing are characteristic of the major group of HIV-1 virus strains (Group M) but not in the outlier strains of HIV-1 (Group O) (Bilodeau et al., *J. Virol.* 73: 9764-9772, 1999). Splicing of Groups O and M strains in infected cells and in cell-free splicing systems will be studied. Projects are also available to study the mechanisms by which the cis elements exert their effects on splicing (Si et al., *MCB* 18: 5404-5413, 1998; Swanson and Stoltzfus, *JBC* 273:34551-34557, 1998).

Applicants should have a strong background in molecular biology and biochemistry. Experience in virology and cell culture is also desirable. Please send a curriculum vitae, bibliography, and the names and addresses of three references to:

**Dr. C. Martin Stoltzfus  
Department of Microbiology  
3-770 BSB**

**The University of Iowa  
Iowa City, IA 52242-1109  
E-mail: [marty-stoltzfus@uiowa.edu](mailto:marty-stoltzfus@uiowa.edu)  
Telephone: 319-335-7793  
FAX: 319-335-9006**

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

**POSTDOCTORAL POSITION** available to study thermodynamics, kinetics, and structure of protein nucleic-acid interactions in solution, particularly DNA polymerases and helicases. Experience in enzyme kinetics, physical biochemistry, and fluorescence spectroscopy preferred. Laboratory is equipped with state-of-the-art steady-state, lifetime, stopped-flow spectrofluorometers and rapid quench-flow instruments. Competitive salary. Interested qualified individuals should send current curriculum vitae and three reference letters to: **Dr. W. M. Bujalowski, Department of Human Biological Chemistry and Genetics, The University of Texas Medical Branch at Galveston, Galveston, TX 77555-1053.** The University of Texas Medical Branch is an Equal Employment Opportunity/Affirmative Action Employer; Minorities/Females/Veterans/Disabled. The University of Texas Medical Branch hires only individuals authorized to work in the United States.

**POSTDOCTORAL POSITION** involving projects in viral carcinogenesis. Expression of viral genes in mammalian cells and transgenic mice to be studied. Study of human herpes virus 8 genes and the consequences of gene expression on the development of lymphoma and Kaposi's sarcoma. Experience in these areas essential; grant preparation and independent work experience encouraged. Send curriculum vitae and two letters of recommendation to: **Felipe Samaniego, M.D., University of Texas M.D. Anderson Cancer Center, 1515 Holcombe Boulevard, Box 68, Houston, TX 77030. FAX 713-794-5656.** The University of Texas M.D. Anderson Cancer Center is an Equal Opportunity Employer and a smoke-free environment.

**POSTDOCTORAL FELLOW POSITION** available to work on studies of potato virus X cell-to-cell movement. Studies will focus on the role of viral protein-protein interactions required to propel viral RNAs through plasmodesmata and to study protein interactions with host cellular components. Ph.D. in biological sciences required. Experience in molecular cloning and/or cell biology preferred. Please send curriculum vitae and names of three references to: **Dr. Jeanmarie Verchot, Department of Entomology and Plant Pathology, Oklahoma State University, 127 NRC, Stillwater, OK 74078-3033. FAX: 405-744-6039; e-mail: [verchot@okstate.edu](mailto:verchot@okstate.edu); Telephone: 405-744-7895.**

## POSITIONS OPEN

**POSTDOCTORAL POSITION.** Postdoctoral position available for a recent graduate with Ph.D. or M.D. degree to join a dynamic research team engaged in the study of the molecular recognition of T cell receptor and coreceptor function of CD8. Highly motivated individuals with experience in protein chemistry and cellular immunology are encouraged to apply. Please send a curriculum vitae and the names of three references to: **Hsiu-Ching Chang, Ph.D., Dana-Farber Cancer Institute, 44 Binney Street, JF318, Boston, MA 02115. FAX: 617-632-3351; e-mail: [hsiu-ching\\_chang@dfci.harvard.edu](mailto:hsiu-ching_chang@dfci.harvard.edu).** Equal Opportunity Employer.

### POSTDOCTORAL POSITION MOLECULAR GENETICS OF DROSOPHILA OXYGEN REGULATION

**University of North Carolina at Chapel Hill**

Position available to utilize microarray analysis and genetics to study the developmental, physiological, and evolutionary consequences of oxygen regulation in *Drosophila* and other invertebrate species. Emphasis is on transcriptional control processes. Excellent opportunity to interact with strong fly community at UNC and agricultural biotechnology companies in Research Triangle Park. Candidates must have a Doctoral degree. Experience in molecular biology or *Drosophila* genetics is desirable. Salary is commensurate with experience. Submit curriculum vitae and names of three references to: **Stephen Crews, Department of Biochemistry, University of North Carolina at Chapel Hill, Jones Building, CB# 7260, Chapel Hill, NC 27599-7260. Telephone: 919-962-4380; e-mail: [steve\\_crews@unc.edu](mailto:steve_crews@unc.edu).** Equal Opportunity Employer.

**A POSTDOCTORAL POSITION** is available in a molecular biology laboratory to investigate viral complement regulatory proteins. Candidate should hold a recent Ph.D. or M.D. degree, with expertise in cell/molecular methods, protein chemistry, and/or immunology. *U.S. citizenship/permanent residency required.* Projects concentrate on the structure-function relationship of complement regulatory proteins and their applications in transplantation and disease. The laboratory is in a strong, collegial research department with collaborative opportunities in immunology, transplantation, pathology, and virology. Send applications to: **Dr. A. M. Rosengard, Department of Pathology, University of Pennsylvania, 220 John Morgan, 3620 Hamilton Walk, Philadelphia, PA 19104-6082. E-mail: [arosenga@mail.med.upenn.edu](mailto:arosenga@mail.med.upenn.edu); FAX: 215-573-4444.** University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

**A POSTDOCTORAL POSITION** is immediately available to study the effects of halogenated aromatic hydrocarbons on developmental gene expression. Our laboratory extensively utilizes gene manipulation in mice to explore the function of individual and combinations of gene products that result from exposure to environmental chemicals. A Ph.D. with training in cellular and molecular biology or toxicology is desirable. Applicants should submit a curriculum vitae with names of three references and a cover letter indicating future goals to: **Dr. William H. Hanneman, Department of Environmental Health, College of Veterinary Medicine, Colorado State University, Fort Collins, CO 80521. E-mail: [hanneman@cvms.colostate.edu](mailto:hanneman@cvms.colostate.edu).**

**POSTDOCTORAL FELLOWSHIP.** Training and research in primate coronary artery pathophysiology via: (1) digital live cell photometry and (2) cardiac catheterization plus intracoronary Doppler. Stipend is \$26,256 to \$41,268 plus benefits for two years. Submit cover letter and résumé by mail or FAX with telephone number, FAX number, and e-mail address; date available; and salary expectations. Selected candidates will be sent a Dimer application. **Dimer LLC, 2525 N.W. Lovejoy, Suite 401, Portland, OR 97210. FAX: 503-295-2757.**

## ANNOUNCEMENTS

### International Summer School on Molecular Mechanisms of Development and Disease

sponsored by FEBS and EMBO.

Island of Spetsai (Greece), September 5 to 14, 2000

for advanced predoctoral students and postdoctoral  
scientists

Among the lecturers will be P. Baeuerle (München), P. Borst (Amsterdam), S.K. Burley (New York), W. Driever (Freiburg), W. Gehring (Basel), D. Görlich (Heidelberg), E.S. Gonos (Athens), F. Grosveld (Rotterdam), P. Gruss (Göttingen), P. Herrlich (Karlsruhe), J. Hoeijmakers (Rotterdam), W. Hörz (München), J.C. Izpisua Belmonte (La Jolla), H. Jäckle (Göttingen), R. Jaenisch (Cambridge MA), F. Kafatos (Heidelberg), M. Karin (La Jolla), H.-G. Klobeck (München), H. König (Karlsruhe), R. Lührmann (Göttingen), I. Mattaj (Heidelberg), K. Nasmyth (Vienna), U. Schibler (Geneva), K. Simons (Heidelberg), A. Ullrich (München), I.M. Verma (La Jolla), E. Wagner (Vienna), R.A. Weinberg (Cambridge MA), C. Weissmann (London), A. Wolffe (Bethesda).

For information click "meetings" in our home page:  
<http://www.fzk.de/itg>

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EUROPEAN OPPORTUNITIES

THE MAX-PLANCK-INSTITUTE OF IMMUNOBIOLOGY

has a position open for a

### Junior Group Leader

The Max-Planck-Institute for Immunobiology is planning to establish a research group in memory of Georges Köhler and is looking for a young, outstanding scientist to lead this group. The research topic will be **Developmental Biology of the Mammalian Immune System**. The willingness to start a risky and innovative project will be a definite advantage. The entire group will be fully financed by the Institute. The position will initially be for the duration of three years with the possibility of extension for a further two years. Ideal candidates should be below 35 years of age.

Salary and social benefits are equivalent to those of the German Public Service salary scale (BAT).

The Max-Planck-Institute for Immunobiology seeks to increase the number of female scientists and encourages them to apply.

Disabled candidates with comparable qualifications receive preferential status.

A child care facility is attached to the Institute.

Interested candidates are invited to send their research proposal, CV, publication list and names of 3 referees to the

Managing Director, Prof. Klaus Eichmann  
Max-Planck-Institute for Immunobiology  
Stübeweg 51, D-79108 Freiburg, Germany  
(or by e-mail to [eichmann@immunbio.mpg.de](mailto:eichmann@immunbio.mpg.de))  
Deadline for application is March 15, 2000

## POSITIONS OPEN

The Pediatric and Reproductive Endocrinology Branch, National Institute of Child Health and Human Development (NICHD), is offering a **POSTDOCTORAL IRTA POSITION**. This position will focus on working with the molecular mechanisms of estrogen action in reproductive tissue, and particular emphasis will be placed upon the elucidation of small GTPase-dependent signaling pathways leading to estrogen receptor activation in reproductive tissues. Also, the position will focus upon the contribution of such pathways to growth and differentiation of reproductive tissues in women.

Candidates should send a curriculum vitae to: **Dr. James Segars, Unit on Reproductive Endocrinology and Infertility, NICHD, 6705 Rockledge Drive, Suite 8000, Bethesda, MD 20892-7970**. Submit applications no later than March 30, 2000. **Dr. Segars** can be reached by **Telephone: 301-295-6007; FAX: 301-295-6774**. *Candidates must be permanent residents or U.S. citizens.* Position available April 1, 2000. Applicants must have a Ph.D. and/or M.D. degree and fewer than five years of postdoctoral experience. *NIH is an Equal Opportunity Employer.*

### POSTDOCTORAL POSITION IN ELECTROPHYSIOLOGY

NIH-funded position open immediately for at least two years to study the electrophysiological properties of vestibular sensory neurons in brain slices. Studies are focused on changes in  $K^+$  and synaptic currents during development and after vestibular nerve lesions, using patch clamp recording, dye injection, pharmacological testing, and computer analysis. Experience in patch clamp recording and a background in neurobiology preferred. Send résumé, statement of research interests, and names of three references to: **Dr. K. Peusner, Department of Anatomy and Cell Biology, George Washington University School of Medicine, 2300 I Street, N.W., Washington, DC 20037**. E-mail: [anakdp@gwumc.edu](mailto:anakdp@gwumc.edu).

### POSTDOCTORAL POSITION NORTH SHORE Long Island Jewish Health System

Postdoctoral position to investigate molecular mechanisms of inflammation-induced injury and oxidative stress. Experience with HPLC desirable. Send curriculum vitae and names of three references to: **Dr. Harry Steinberg, Division of Pulmonary and Critical Care Medicine, Room C-20, Long Island Jewish Medical Center, 270-05 76th Avenue, New Hyde Park, NY 11040**. FAX: 718-470-1035; e-mail: [steinberg@lij.edu](mailto:steinberg@lij.edu). Long Island Jewish is the Long Island campus for the Albert Einstein College of Medicine. Please visit us at [website: www.northshorelij.com](http://www.northshorelij.com).

A **POSTDOCTORAL RESEARCH POSITION** in AIDS pathogenesis is available to study simian immunodeficiency virus replication in the CNS and lymphoid systems and its effects on host cells using histopathologic and molecular biological approaches. Interested individuals should send a curriculum vitae; brief description of research experience and interests; and the names, addresses, and telephone numbers of three references to: **Dr. Todd Reinhart, Sc.D., Department of Infectious Diseases and Microbiology, Graduate School of Public Health, University of Pittsburgh, 606 Parran Hall, Pittsburgh, PA 15261**. *The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** available for NIH-funded project in **Kenneth Stuart's** laboratory to study the mechanism of RNA editing and macromolecular complex that catalyzes this process in *T. brucei*. Experience in protein biochemistry and/or molecular biology required and a willingness to learn aspects of functional genomics a plus. Visit our [website: www.sabri.org](http://www.sabri.org). Send curriculum vitae and three letters of reference to: **Seattle Biomedical Research Institute/University of Washington, Job 2000-5, 4 Nickerson Street, Seattle, WA 98109**. E-mail: [jobs@sabri.org](mailto:jobs@sabri.org). *Equal Opportunity Employer.*

## POSITIONS OPEN



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### TWO POSTDOCTORAL POSITIONS MOLECULAR/GENOMICS LABORATORY INFLAMMATORY ARTHRITIS RESEARCH

Two Postdoctoral positions are available at the Oklahoma Medical Research Foundation, Arthritis/Immunology Department, Oklahoma City, Oklahoma. (1) Bioinformatics/Bioengineering Postdoctoral to aid in implementation of a coordinated program in molecular phenotyping of human and rodent inflammatory disease in a new million dollar, technically staffed microarray facility. Software development, hardware maintenance, project development, and wet laboratory requirements. (2) Protein Biochemist/Molecular Biologist to define the molecular mechanisms of action of the gene causing familial Mediterranean fever, the first human gene identified causing frank inflammatory arthritis. Will work in a broad-based, technically staffed molecular/genomics laboratory on an inflammatory regulator crucial to human disease. Send curriculum vitae and three references to: **Dr. Michael Centola; e-mail: Michael-Centola@omrf.ouhsc.edu**; visit OMRF website: [www.omrf.ouhsc.edu](http://www.omrf.ouhsc.edu). *Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL(S)**; College of Agricultural Sciences, Penn State: Postdoctoral position(s) to investigate novel mitogenic/apoptotic pathways in Type 1 cytokine receptor system and/or molecular mechanisms of hematopoietic lineage determination. Timely opportunity to join expanding programs in cell and developmental biology, immunobiology, and computational biology, and to interact with the hundreds of active laboratories in Penn State's Life Science consortium. New facilities, space, and competitive salary. Send curriculum vitae and references by March 6, 2000, to: **Dr. D. M. Wojchowski, Position # S-6949, 115 Henning, The Pennsylvania State University, University Park, PA 16802**. Telephone: 814-863-8329; FAX: 814-863-6140; e-mail: [dmw1@psu.edu](mailto:dmw1@psu.edu). *Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** available immediately to study protein kinases and cellular signal transduction. Specifically, the project will include investigating the role of phosphorylation to regulate a key enzyme (carbamoyl phosphate synthetase) in *de novo* pyrimidine nucleotide metabolism (see *Nature* 403:328, 2000). Experience with protein biochemistry/molecular biology is required; additional experience with mass spectrometry is desired. Send curriculum vitae and names of three references to: **Lee M. Graves, Ph.D., Department of Pharmacology, CB#7365, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599**. E-mail: [img@med.unc.edu](mailto:img@med.unc.edu). *Equal Opportunity Employer.*

**POSTDOCTORAL POSITIONS** available for studying calcium regulation in auditory sensory hair cells. Interested in mechano-sensitivity, membrane excitability, synaptic transmission? Have or want experience in single-cell physiology, electrophysiology, imaging, or cell culture? Send letter of interest; curriculum vitae; and names, telephone numbers, and e-mail addresses of three references to: **Anthony Ricci, Neuroscience Center, Louisiana State University Medical Center, 2020 Gravier Street, New Orleans, LA 70112**. *Louisiana State University is an Equal Employment Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL/RESEARCH ASSOCIATE** positions in cyclooxygenase enzymology, potassium channel reconstitution, or RNA splicing. Training in pharmacology/enzymology, membrane biophysics, or molecular biology required, depending on the project. Please send a curriculum vitae and the names of three references to: **Dan Simmons, Ph.D. (Telephone: 801-378-4441) or David D. Busath (Telephone: 801-378-7523), E280 BNSN, Brigham Young University, Provo, UT 84602**. FAX: 801-378-5474.

## POSITIONS OPEN

### POSTDOCTORAL POSITION

A Postdoctoral Fellowship position is available to study the molecular mechanisms by which environmental pollutants induce lung injury. The qualified candidate will examine the effect which environmental pollutants have on pulmonary cellular signal transduction pathways and corresponding gene expression. The objective of this research is to determine the molecular mechanisms responsible for acute and chronic lung injury associated with air pollution exposure. This position is a cooperative research effort between the U.S. Environmental Protection Agency and North Carolina State University. The position requires a Ph.D. in cell and/or molecular biology, toxicology, or physiology. Experience in cell and molecular biology techniques associated with signal transduction and gene expression analysis is highly desirable. *Candidates must be U.S. citizens or of permanent residency immigration status.* Interested individuals should send a curriculum vitae and three letters of recommendation to: **Dr. Kenneth Adler, North Carolina State University CVM, 4700 Hillsborough Street, Raleigh, NC 27606**.

**POSTDOCTORAL POSITION**, College of Agricultural Sciences, Penn State: Position immediately available to study cellular regulation of the Ah receptor pathway. Current studies are focused on delineating the role of coactivators and protein phosphorylation in regulating Ah receptor activity. Applicants should have a Ph.D. in toxicology, biochemistry, or related field. Salary is competitive and commensurate with experience. Submit curriculum vitae and names of three references no later than March 6, 2000, to: **Dr. Gary H. Perdew, Center for Molecular Toxicology, Department of Veterinary Science, 115 Henning Building, The Pennsylvania State University, University Park, PA 16802**. E-mail: [ghp2@psu.edu](mailto:ghp2@psu.edu). Website: <http://www.cas.psu.edu/docs/CASDEPT/VET/ppl/perdew.html>. *Affirmative Action/Equal Opportunity Employer.*

### POSTDOCTORAL POSITION

One or two NIH-funded Postdoctoral positions to study the physiological role of phospholipase D and phosphatidic acid in growth factor signal transduction starting in May or June 2000. The research is part of a highly interactive group and will involve molecular biology, confocal microscopy, caged compounds, and live cell microscopy.

Send curriculum vitae to: **Dr. Guillermo Romero, W1345 BST, Department of Pharmacology, University of Pittsburgh School of Medicine, Pittsburgh, PA 15261**. E-mail: [ggr+@pitt.edu](mailto:ggr+@pitt.edu). *An Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.*

**POSTDOCTORAL POSITION** in signaling and apoptosis available immediately to study the serine/threonine kinase Pim-1 in signaling through TNF-related receptors. *Applicants must be U.S. citizens with a Ph.D., M.D., or D.V.M. degree.* Support and benefits commensurate with experience. Send curriculum vitae, including three references, to: **Dr. Nancy Magnuson (e-mail: [magnuson@mail.wsu.edu](mailto:magnuson@mail.wsu.edu)) or Dr. Phil Mixer (e-mail: [pmixer@wsu.edu](mailto:pmixer@wsu.edu)), School of Molecular Biosciences, Washington State University, Pullman, WA 99164-4234**. *Washington State University is an Equal Opportunity/Affirmative Action Educator and Employer. Protected group members are encouraged to apply.*

**POSTDOCTORAL POSITION** available in our combinatorial phage display group to identify and examine prostate and/or breast cancer-specific peptides and Fab. Experience in molecular biology and biochemistry is required. Please send curriculum vitae, two representative publications, and the names of three references to: **Dr. Susan Deutscher, M121 Medical Sciences Building, Department of Biochemistry, University of Missouri, Columbia, MO 65212**. *University of Missouri is an Equal Opportunity/Affirmative Action Employer. Applications from women and minorities are particularly encouraged.*

## POSITIONS OPEN

### POSTDOCTORAL FELLOWS RESEARCH ASSOCIATES

The Department of Physiology and Biophysics and the Center for Excellence in Cardiovascular-Renal Research of the University of Mississippi Medical Center invite applications for Postdoctoral Fellows/Research Associates to train in cardiovascular and renal research. Candidates must have a Ph.D. or an M.D. degree with an interest in cellular/molecular research, as well as integrative physiology. Postdoctoral Fellows will have the opportunity to learn a broad range of methods and research strategies including genetics, molecular, biochemical, cellular, whole organ, and integrative biological approaches. Some of the current research areas in the Center include vascular biology, hypertension, diabetes and obesity, heart failure, kidney disease, atherosclerosis, and preeclampsia. Applicants should send a curriculum vitae, a statement of research interests and career goals, a graduate transcript, and the names of three references to: **Dr. John E. Hall, Department of Physiology and Biophysics, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216-4505. Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.**

Washington University invites applications for a teaching **POSTDOCTORAL FELLOWSHIP** at its Tyson Research Center, a 2,000-acre tract of forest located 20 miles from campus. The Fellow will be responsible for teaching an environmental biology course and conducting research at the Center, which involves undergraduates. Applicants should include a curriculum vitae, indicate what courses they might teach and what sort of research they might conduct, and arrange to have two letters of recommendation sent to: **Jonathan B. Losos, Tyson Research Center, Campus Box 1137, Washington University, St. Louis, MO 63130-4899. Send inquiries to: e-mail: losos@biology.wustl.edu. Applicant review will begin on March 15, 2000. Washington University is an Equal Opportunity Employer.**

**POSTDOCTORAL ASSOCIATE and RESEARCH SCIENTIST POSITIONS** available for studies of nuclear receptors/coactivators/corepressors and chromatin remodeling in cancer biology and embryonic development. Experimental systems include primary tumors, embryonic stem cell cultures, and transgenic mice. At least three years of research experience in molecular biology or protein chemistry/purification is required. Send curriculum vitae and names of three references to: **Dr. Li-Na Wei, Department of Pharmacology, University of Minnesota, 6-120 Jackson Hall, 321 Church Street S.E., Minneapolis, MN 55455-0217. E-mail: weix009@maroon.tc.umn.edu. FAX: 612-625-8408. The University of Minnesota is an Equal Opportunity Employer and Employer.**

**POSTDOCTORAL POSITION** in molecular microbial ecology available immediately to use the latest molecular tools to study the diversity and function of microbial communities in selected lakes of the Northern Temperate Lakes Long-Term Ecological Research site. Candidates must have published evidence of molecular skills and a Ph.D. degree in microbiology, molecular biology, or related field. The position is for two years with a possible extension. Applicants should send curriculum vitae and the names and e-mail addresses of three references to: **Professor Eric Triplett, University of Wisconsin-Madison by e-mail: tripplett@facstaff.wisc.edu prior to March 15, 2000.**

### POSTDOCTORAL FELLOW POSITION

Position available at the University of Washington to study the cellular response to herpes simplex viruses in humans (*JCI* 101:1500, 1998; *J. Virol* 72:7476, 1998). Analysis of the CD4 and CD8 response in genital lesions, mucosal ocular samples using expression cloning, Class I and Class II tetramers, and lymphokine analyses are underway. Molecular biology skills and U.S. citizenship required. E-mail inquiries to: **David Koelle; viralimm@u.washington.edu.**

## POSITIONS OPEN

**Mayo Clinic POSTDOCTORAL RESEARCH FELLOWSHIPS** in endocrinology: The Endocrine Research Unit, Mayo Clinic, has openings in an NIH-funded postgraduate training program for qualified M.D. and Ph.D. candidates. Fourteen NIH-supported and three junior faculty are involved in clinical and basic studies of: (1) diabetes/metabolism and obesity (**M. Jensen, R. Rizza, F. Schwenk, T. O'Brien, J. Levine, and S. Nair**); (2) bone/calcium metabolism (**L. Fitzpatrick, A. Kearns, R. Turner, S. Khosla, and L. Riggs**); (3) growth factors (**C. Conover**); (4) thyroid-stimulating hormone and thyroid iodide transporter (**J. Morris**); (5) Grave's ophthalmopathy (**R. Bahn**); thyroid cancer (**B. McIver**); and (6) control of gene expression (**N. Eberhardt and D. Tindall**). The programs provide excellent training experiences in well-equipped laboratories investigating molecular-, cellular-, and organ-level endocrinology. NIH stipends are supplemented according to standard Mayo policy. Appointments are made for a minimum two-year period, with maximum support up to three years. *Candidates must be U.S. citizens or have resident alien status.* Additional information available at website: [http://www.mayo.edu/research/endocrinology\\_research/](http://www.mayo.edu/research/endocrinology_research/). Interested individuals contact: **Norman L. Eberhardt, Ph.D., 5-194 Joseph, Mayo Clinic, Rochester, MN 55905. Telephone: 507-255-6554; FAX: 507-255-4828; e-mail: eberhardt@mayo.edu. Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.**

## COURSES & TRAINING

### POSTDOCTORAL TRAINING IN THE IMMUNOBIOLOGY OF CANCER

This NIH-sponsored program offers training in a wide variety of cancer-related areas of immunology, including immune recognition, regulation, and tolerance; lymphocyte development; cell signaling and adhesion; and cancer immunotherapy. Our website: <http://www.med.upenn.edu/~micro/training1.html> describes the research interests of the 22 primary trainers in the program.

Positions are open immediately for **PH.D. GRADUATES** and for those who expect to graduate in the next six months. *Applicants must be American citizens or permanent residents.* Interested candidates should send curriculum vitae and names of three references to: **Dr. Yvonne Paterson, Program Director, Department of Microbiology, 323 Johnson Pavilion, University of Pennsylvania Medical Center, Philadelphia, PA 19104-6076. FAX: 215-573-4666; e-mail: yvonne@mail.med.upenn.edu. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Women and minorities are urged to apply.**

### FLOW CYTOMETRY COURSE JUNE 5-9: COLORADO SPRINGS

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University of Colorado SB-1  
Colorado Springs, Colorado 80933  
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## ANNOUNCEMENTS

**CALL FOR PAPERS:** On-line health and aging journal is now accepting articles for rapid publication (as little as 24 hours from first receipt of manuscript). All formats accepted: original research, review, layperson tutorial, and science news. This journal provides a forum for researchers in the biomedical sciences to interact with and inform the public and other scientists about their research. Reader feedback available upon request. For further information or manuscript submissions, e-mail us at: [webmaster@agenews.com](mailto:webmaster@agenews.com).

## SEMINARS

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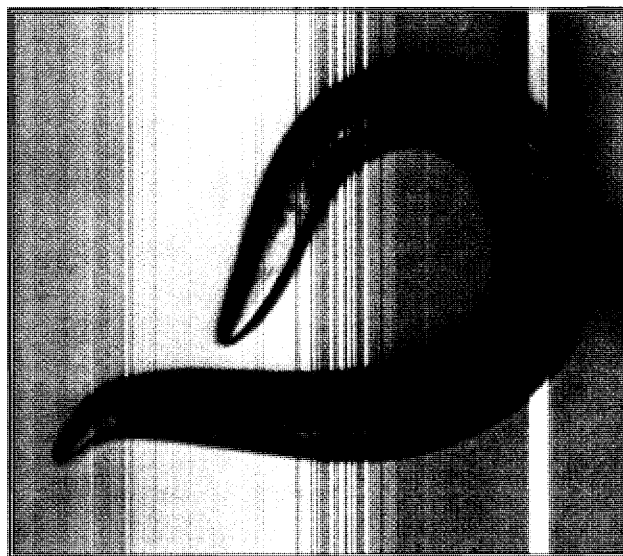
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1. *C.elegans* Genome Sequencing Consortium, (1998) *Science* 282:2012-2018.
2. [http://genome.wustl.edu/gsc/C\\_elegans/](http://genome.wustl.edu/gsc/C_elegans/)
3. [http://www.sanger.ac.uk/Projects/C\\_elegans/](http://www.sanger.ac.uk/Projects/C_elegans/)
4. Coulson, A.R., et al. (1986) *Proc. Natl. Acad. Sci. U.S.A.* 83, 7821.

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