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1. *Science*, Dec. 1999, BPA Publisher's Statement.
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CAREERS AND EVENTS IN

drug discovery

NEW SKILLS AND OLD The route to effective drug discovery involves more than the traditional disciplines of biology and pharmacology. The industry now has high demand for specialists in bioinformatics, chemistry, pharmacogenomics, and other disciplines. by Peter Gwynne

Drug discovery has entered a period of rapid change. Even in recent years, large pharmaceutical companies carried out the entire process from start to finish using tried-and-true pharmacological techniques. No more. Biotechnology companies that specialize in such fields as genomics and bioinformatics have started to make strong contributions to the front end of the process. Scientists trained in combinatorial chemistry, informatics, and statistics play increasingly important roles. So do new techniques, among them high-throughput screening, genomics, and gene expression protocols.

While the methods have changed, the target has not. Pharmaceutical companies and the biotechnology firms with which they collaborate have the goal of finding new molecules that will end up as blockbuster drugs intended to satisfy unmet medical needs and to address health conditions for which effective pharmaceutical remedies do not currently exist.

That goal is now in sight, owing largely to advances in genomics. That maturing branch of life science is aiding the search for drug targets and is leading to an understanding of how drugs work at the molecular level. Admittedly, such tools as genomics, combinatorial chemistry, and high-throughput screening have yet to prove their worth in the form of approved drugs on the market. But the arrival of those drugs is now just a matter of time.

The only real hurdle seen by firms in the drug discovery business is the difficulty of finding life scientists. Most observers agree that universities aren't producing enough scientists with the necessary skills. Pharms and large biotechnology companies that expected to hire the cream of the life science crop now find that many promising candidates opt for biotechnology start-ups. So widespread are the opportunities for life scientists in some fields that large numbers choose to take a succession of temporary positions rather than signing on full-time.

Even when they land top recruits from academe, companies involved in drug discovery must often train them in new

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DRUG DISCOVERY TECHNOLOGY 2000

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*Our state-of-the-art facilities in Cambridge, MA are some of the most sophisticated in the world. We are continuing to expand our Cambridge site and have multiple, exciting career opportunities available for **Ph.D.**, **M.S.** and **B.S.** level scientists in a variety of genomic disciplines. Join our growing team in one of the following areas.*

MOLECULAR MICROBIOLOGY

Currently we have several positions available at our Cambridge site to work on a pilot program involving natural products drug discovery from unexplored microenvironments. All positions require innovative thinking, flexibility, excellent communication skills, and the ability to work effectively in a highly cooperative team environment. Prior industry experience preferred.

Ph.D. Positions: E.coli & Streptomyces Genetics - 2 Positions

Expression of environmental microbial DNA in microbial hosts. Requires 5 years experience, expertise in molecular microbiology, including microbial genetics and physiology, and a good knowledge of prokaryotic gene regulation. One position requires expertise in *E. coli* and *Bacillus* genetics. The second position requires extensive experience with *Streptomyces*. Experience with natural products and high-throughput screening systems is desirable. **Job Code: MG55**

B.S./M.S. Associate Research Biologist - 2 Positions

Cloning of environmental DNA into surrogate microbial hosts, construction of microbial expression strains, arraying and handling of large microbial libraries. Requires 3+ years experience, solid knowledge of recombinant DNA technology and techniques of molecular biology & microbiology. Robotics experience is helpful. We are looking for scientists who can contribute ideas and improvements to our innovative pilot program. **Job Code: MGA**

GENE EXPRESSION PROFILING

Ph.D. Molecular Biologist

Candidate to lead a gene expression profiling group to compare expression patterns in normal and disease states using high density microarray technologies and DNA sequence analysis. Involves implementing and improving state-of-the-art technologies in high-throughput formats. Prior experience with gene expression technologies and/or genomics is highly desirable. The position requires leadership abilities in managing a group, analyzing complex data in collaboration with bioinformatic researchers and affecting improvements with bio-automation scientists. **Candidates for this senior scientific position should have a Ph.D. in a related field with at least 3-4 years of postdoctoral research. Expertise in genomics, mammalian genetics and diseases is highly desirable. Job Code: MBGE**

Research Associate: Molecular Biologist

Seeking highly motivated person capable of working independently and as team player in the Gene Expression Group on disease and technology related projects. Candidates will perform research and data analysis on state-of-the-art oligo and cDNA microarray gene chip technologies. Candidates will perform molecular biology research such as RNA isolation and analysis, microbial culture, DNA/RNA labeling and hybridization, PCR and gel electrophoresis. Requires B.S./M.S. degree in biology or related field. Computer skills and/or molecular biology/genomics laboratory experience are desirable. **Job Code: MBGE-2**



Our challenge is life.

cDNA CLONING

Research Biologist

You will develop and implement new strategies for cloning full-length cDNAs, while working with a highly motivated group of scientists to identify genes that will be used for genomics research. Applicants should have experience with techniques such as RT-PCR, RACE, arrayed libraries, and cDNA capturing methods. Experience with cDNA libraries, tissue culture, and handling RNA is a plus. We are looking for a hardworking, self-motivated, and very well organized individual with strong communication skills, who can work independently and effectively as part of a team. The position requires a B.S./M.S. and at least 3 years of solid molecular biology experience with direct experience in cDNA cloning, sequence analysis, and database mining. **Job Code: MBFL-1**

Associate Research Biologist- 2 Positions

You will implement and develop methods to construct full-length cDNA libraries that will be used for genomics research. Candidates should have direct experience with cDNA cloning, cDNA/genomic library construction, PCR, RNA isolation, library screening, Northern/Southern blots and other molecular biology techniques. Laboratory research and computer experience highly desirable. Requires B.S./M.S. degree in the biological sciences or related field. **Job Code: MBFL-2**

DNA SEQUENCING

Biologist

Work on various aspects of DNA sequencing projects. The successful candidate will be part of the core DNA sequencing group and share responsibility for the set up and operation of various automated DNA sequencing machines. Microbial culture, transformation, PCR and laboratory experience desirable. The individual is expected to interact with the various research areas by providing sequencing expertise to augment ongoing research. Good communication (oral and written) and interpersonal skills are required to effectively perform this job. Requires B.S. degree in the biological sciences or related field. **Job Code: MBDS**

LABORATORY AUTOMATION SPECIALIST

The position involves design, implementation and support of automation technologies for high throughput sample processing. The candidate must be motivated and able to interact closely with a multidisciplinary team of laboratory scientists. A background in engineering, physical or biological sciences is required. Excellent problem solving, organizational, and communication skills are essential for this position. Any previous experience with genomics, laboratory robotics, high throughput screening, data management, or software development for Windows using Visual Basic is an advantage. **Job Code: LAS-1**

LIMS

Lead Software Engineer

Experienced LIMS Specialist for supporting the research efforts of a large genomics research laboratory that includes high throughput automated sequencing, finishing, full length cDNA cloning, microarray construction and data transfer. Duties require providing Laboratory Information Management Systems (LIMS) support to Aventis by working with scientists to develop, implement and maintain customized LIMS packages. LIMS implementation includes assisting in the initial configuration of databases, configuring commercial LIMS to meet Aventis requirements, customizations of LIMS, setting up automatic data collection from instruments, writing specific LIMS generated reports, and establishing interfaces with other applications. Requires experience with the implementation and

support of commercial LIMS applications. Project planning/management skills and the ability to prioritize and handle multiple tasks is essential. Programming experience in PERL, JAVA, or C++, and PC programming languages (ex: Visual Basic) is highly desirable. In order to provide technical documentation and user guides, good oral and written communication skills are very important. Familiarity with NCBI programs, GenBank a plus. Requires a B.S./M.S. degree in computer science with 3-5 years experience in LIMS. Experience in a molecular biology or genomics laboratory environment or related fields a plus. **Job Code: LIMS-1**

Associate Software Engineer

LIMS Specialist for supporting the research efforts of a large genomics research laboratory that includes high throughput automated sequencing, finishing, full length cDNA cloning, microarray construction and data transfer. Duties require providing Laboratory Information Management Systems (LIMS) support to Aventis by developing, implementing and maintaining customized LIMS packages. LIMS implementation includes assisting in the initial configuration databases, configuring commercial LIMS to meet Aventis requirements, customizations of LIMS, setting up automatic data collection from instruments, writing specific reports, and establishing interfaces with other applications. Programming experience in PERL, JAVA, or C++, and PC programming languages (ex: Visual Basic) is essential. Good oral and written communication skills are very important. Requires a B.S. degree in computer science or related field with 1-2 years programming experience. **Job Code: LIMS-2**

CELL BIOLOGY

Ph.D. Scientist

Entry-level Ph.D. Scientist to participate in target gene discovery and validation for the Cell Biology Department. Requires background in molecular and cell biology, and experience in cDNA library screens and cell-based disease models. Expertise in vector development, FACS, antisense technology, database mining, or robotics is helpful. 2-4 years post-doctoral experience is required. **Job Code: CB01**

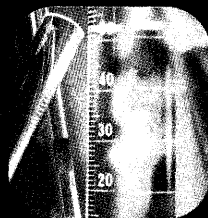
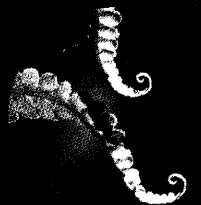
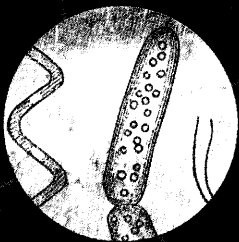
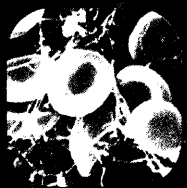
Research Scientist

Work in a team environment to develop technology for gene validation efforts. Strong molecular and cellular biology skills and computer experience required. The position involves cell culture, protein expression, RNA isolation/analysis, DNA cloning and genetic screens. Must be able to interact effectively with team members and contribute to team goals. Strong communication skills and ability to present results required. B.S. or equivalent required; M.S. and 3-5 years experience is desirable. **Job Code: CB02**

Become part of the most exciting growth company in the pharmaceutical industry. Please send a resume and cover letter indicating your full career details, job code for position of interest and reference **ad code: 2000BW0033 to:**

**Aventis Cambridge Genomics Center
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**Visit our website for further information:
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Exelixis, a leader in the fields of model systems genetics and comparative genomics, is employing its proprietary technologies to understand gene function for the development of new products for the life science industries. Applying a systematic study of simple organisms—such as fruit flies, worms, zebrafish, and simple plants—we provide a rapid, efficient and cost-effective way to move beyond DNA sequence data to understand the functions of genes and the proteins they encode. Join us as we endeavor to transform data into knowledge and knowledge into products!

Director, Computational Chemistry

You will oversee the Computational Chemistry Group and work closely with the head of the Informatics Department and other Group Leaders. You will recruit, mentor, and manage staff in the group, provide long-range planning goals and oversight of development and application of software. Requires a PhD or equivalent experience, 5+ years experience creating and maintaining databases and/or software for analysis of chemical data sets in a production, customer-driven context, and 3+ years experience managing a computational chemistry or chemi-informatics group. Familiarity with algorithms underlying molecular descriptors, compound docking, compound comparison, and/or ADME prediction is desired. (Job#: 00-109)

Director, Computational Biology

You will oversee the Computational Biology Group and work closely with the head of the Informatics Department and other Group Leaders. You will recruit, mentor, and manage staff in the group, provide long-range planning goals and oversight of development and application of software. Requires a PhD or equivalent experience, 5+ years experience creating and maintaining databases and/or software for analysis of biological data sets in a production, customer-driven context, and 3+ years experience managing a computational biology or bioinformatics group. Familiarity with algorithms underlying sequence assembly and comparisons, gene parsing, and structure/function prediction is desired, as is knowledge of public resources for biological data sets and their analysis. (Job#: 99-128)

Group Leader, Drosophila Genetics

You will oversee the Drosophila Genetics Group, currently composed of over 35 scientists, and maintain a flexible, team-oriented culture focused on integration with several research programs within the company. The Drosophila group uses forward and reverse genetic approaches to identify novel gene targets for the pharmaceutical and agricultural industries. You will recruit, mentor, and manage staff in the group. You will contribute to long-range scientific planning and oversight of ongoing research programs. You will provide leadership for project prioritization, identify and champion new areas of research, and provide oversight of budget, equipment, and space use. The ideal candidate will have a PhD or equivalent with 3+ years experience managing a Drosophila group. Excellent written and oral communication skills and a strong publication record are required. (Job#: 00-106)

Group Leader, C. elegans Genetics

You will oversee the C. elegans Genetics Group, currently composed of over 35 scientists, and maintain a flexible, team-oriented culture focused on integration with several research programs within the company. The C. elegans group uses forward and reverse genetic approaches to identify novel gene targets for the pharmaceutical and agricultural industries. You will recruit, mentor, and manage staff in the group. You will contribute to long-range scientific planning and oversight of ongoing research projects. You will provide leadership for project prioritization, identify and champion new areas of research, and provide oversight of budget, equipment, and space use. The ideal candidate will have a PhD or equivalent with 3+ years experience managing a C. elegans group. Excellent written and oral communication skills and a strong publication record are required. (Job#: 00-105)

Research Scientist/Program Leader, Immunology

You will assist in guiding a team of geneticists and cell biologists in designing and performing genetic screens for the identification and validation of new drug targets in pathways of macrophage activation and inflammation. A PhD or equivalent in genetics, molecular/cell biology, or immunology; postdoctoral experience preferred. Excellent interpersonal skills and the desire to work as part of a team are essential. A strong background in macrophage cell biology and/or signal transduction pathways and interest in innate immunity are essential; mouse or human genetics or cell biology background a plus. (Job#: 00-97)

Research Scientist/Group Leader, Mouse Genetics

You will help recruit and oversee a team of scientists whose goals are to identify novel therapeutic targets and to establish new mouse models for pharmaceutical and agricultural research. The research will include large-scale modifier screens and will be integrated with several research programs within the company. A PhD in genetics, molecular biology, or genomics with 5+ years postdoctoral experience in mouse genetics is required. Experience with ENU mutagenesis or modifier/QTl mapping preferred. Strong interpersonal skills and the desire to work as part of a team are essential. (Job#: 00-100)

Senior Research Scientist, Biology Technology

You will have extensive experience in purifying recombinant proteins from various expression systems and play a direct role in supporting assay development, high-throughput screening and crystallography efforts at Exelixis. A BS, MS, PhD or equivalent with 2-5 years of hands-on experience in protein purification are required. Working knowledge of FPLC, HPLC and other related analytical techniques is essential. Strong interpersonal skills and the desire to work collaboratively are a must. (Job#: 00-95)

Research Scientist, Mouse Genetics

You will use mice as a model system to identify novel therapeutic targets and to establish new mouse models for pharmaceutical and agricultural research. The research will include generating transgenic mice to provide sensitized backgrounds for large-scale modifier screens. A PhD in genetics, molecular biology, genomics or equivalent with 5+ years postdoctoral experience in mouse genetics is required, including strong molecular biology skills and expertise in generating and analyzing transgenic mice. Strong interpersonal skills and the desire to work as part of a team are essential. (Job#: 00-101)

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 of molecular biology experience and demonstrated skills with automated DNA sequencers. (Job #: 99-122)

Laboratory Automation and Robotics Engineer, DNA Sequencing

You will establish and lead the laboratory automation effort to support the high-throughput sequencing lab, design and implement laboratory automation and associated robotics systems, drawing on commercially available instruments and, when necessary, instruments designed in-house. Requires a PhD/ME, 3+ years experience with laboratory automation and C and/or C++ programming experience. (Job #: 00-84)

Join us in the expansion of our Drug Discovery group! In addition to the positions listed below, we are looking for qualified applicants at all levels in medicinal chemistry, HTS, pharmacology and pharmacokinetics/ADME.

Director, Medicinal Chemistry

You will lead a multidisciplinary drug discovery team and oversee multiple projects aimed at the design and synthesis of novel small molecules with potential biological activity. Requires a PhD in chemistry with 8+ years experience in organic synthesis, medicinal chemistry, and 3+ years experience managing a group. (Job#: 00-110)

Director, Combinatorial Chemistry

You will lead the combinatorial chemistry group at Exelixis. The ideal candidate will have a PhD in chemistry with considerable synthetic organic experience, and 3+ years management experience. Also requires extensive experience in combinatorial chemistry high-throughput techniques, and laboratory automation. (Job#: 00-111)

Exelixis offers highly competitive salaries and benefits, generous equity participation, and a stimulating, highly interactive research setting that recognizes and rewards achievement. Please send your resume/CV to Exelixis, Inc., HR Department; Fax: (650) 825-4226; or Email: careers@exelixis.com. EOE.

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"...basically it's all about the person — moral fiber, work ethic, teamwork, personal stature, and eagerness to make a difference." Jeff Seilhamer.

techniques such as bioinformatics and must orientate them in the ways in which business works. The process of getting drugs to market as fast as possible puts different demands on scientists than the pursuit of an academic thesis.

Nevertheless, pharmas and biotechnology firms are seeking life scientists with expertise in a wide variety of fields, from traditional molecular biology and biochemistry to new-fangled information technology and statistics. Recruiters expect evidence of strong scientific credentials. But they also look for more intangible qualities, most notably a feel for teamwork and the types of people skills that permit individuals to communicate easily with scientists in other fields.

Plainly, the nature of the drug discovery process has changed. Here, we talk to representatives of biotechnology companies and pharmaceutical corporations about their roles in the drug discovery pipeline and their needs for life scientists to participate in the process. In an accompanying article, we focus on Drug Discovery Technology 2000, a major exposition and symposium that will take place in August.



JEFF SEILHAMER

PALO ALTO, California: "We are a genomic information company," says Jeff Seilhamer, senior vice president, life sciences, for Incyte Genomics, Inc. "We do not develop drugs here. We do the first phase of drug discovery for our clients in the pharmaceutical and biotechnology industries." That fact illustrates the changing nature of drug discovery. "Increasingly, the initial biology associated with the first phase of discovery will not be done in pharmaceutical houses," explains Seilhamer. "Like the computer industry, the megaliths no longer do everything."

Incyte relies heavily on information technology. "We organized our informatics around genomics and helped the science of drug design utilize the different types of information around it," explains Seilhamer. "In effect, we've created an open system for life science information. In the near future, we will see genome browsers and expression browsers in much the same way we currently see word processors and spreadsheet applications."

Finding the scientists to keep moving toward those goals represents a major challenge. "We hire from wherever we can, including temporary agency contractors," Seilhamer says. "More and more, people won't work as full-time employees. Of our 1,200 people, we have more than 200 contractors. They give up stock for the ability to jump to the next bidder for a few extra dollars per hour."

Incyte also differs from other life science companies in the level of scientists it hires. "The Ph.D. is relevant only in certain jobs," Seilhamer explains. "We have many directors and even vice presidents who don't have doctorates. We frequently hire at the Master's and Bachelor's level."

What does the company expect of its recruits? "I like to see scientists with demonstrated expertise in current technology, such as using microarrays in their research," says Seilhamer. "It's also a big factor to come from a good university. But basically it's all about the person — moral fiber, work ethic, teamwork, personal stature, and eagerness to make a difference. The technology they bring with them is second to that." Seilhamer points to one more unusual factor. "I rely heavily on personal recommendations," he

says. "Over the years, I have made some of my most successful hires after asking questions of people who have interviewed them, rather than meeting them myself."



BOB SUTCLIFFE

LA JOLLA, California: "We are positioned at the very front end of the drug discovery process," says Bob Sutcliffe, CEO of Digital Gene Technologies, Inc. "We identify novel targets or mechanisms of action to support discovery strategies. We're applying our genomics technology to Lercanipidine, Recordati's approved hypertension drug, to determine the mechanism of its action on atherosclerosis at the molecular level. We have a major collaboration with Immunex on targets for inflammatory disease, determining the genes that change during the onset and development of the disease."

Just this month the company announced a major collaboration with Élan that will study Alzheimer's and Parkinson's diseases at the molecular level. A second part of that agreement — looking at novel targets for drug delivery — is even more indicative of the "new science" in drug development. "The idea is that certain genes in the cells determine the cells' permeability. If you can determine what those genes are, you might increase the absorption of drugs at those sites," says Sutcliffe. In addition to the new drugs that can be designed, thousands of compounds have proven efficacious but with limited bioavailability; you need to give patients too much. If you can reduce that amount by increasing absorption, you really might make winners out of previous discards."

A key to DGT's approach is the patented TOGA total gene expression technology that the company licenses from the Scripps Research Institute. To connect the discovery robot to the researcher's desk, three computer scientists developed the necessary informatics and interface. However, says Sutcliffe, "we required them to meet daily with the biologists and to develop only those tools that the biologists required. As a result, the tool is remarkably facile." To apply TOGA most effectively, DGT concentrates its recruiting on molecular biologists, with special attention to those with skills in bioinformatics.

CONTINUED ➡

Alkermes

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1999 was another year filled with accomplishments for Alkermes as we solidified our position as the industry leader in sophisticated drug delivery technologies. Highlights included the acquisition of Advanced Inhalation Research (AIR) in February, filing of the Company's first NDA in June and our first product approval by the FDA in December.

As Alkermes grows, we're blazing the way for a new generation of careers. With advanced clinical trials underway for several indications and strong collaborative relationships with major pharmaceutical partners, we combine the exhilarating energy of a start up with a sound foundation for continued financial stability and growth.

As a key contributor to our expanding success, you will receive a fully competitive compensation package with stock options, excellent benefits, and a company-matched 401(k) plan.

Quality Assurance Compliance Manager

You will lead the compliance efforts for our Wilmington and Cincinnati facilities with specific responsibilities for:

- Providing leadership of compliance projects
- Management of auditing programs including internal audits, customer audits and vendor/supplier systems
- Leading the GMP and quality system training efforts for the Ohio facilities
- Participating on Technology Transfer teams

Requirements include a Bachelor's degree in Science, at least 10 years' pharmaceutical experience with at least 7 years in Quality Assurance, preferably with parenteral dosage forms, and extensive knowledge in US and European drug product GMP requirements.

Box SPD

For the Quality Assurance Compliance Manager position only, please apply to: Alkermes, Inc., Attention: Human Resources, 6960 Cornell Road, Cincinnati, Ohio 45242. Fax: (513) 489-8095.

Toxicologist

You will be responsible for the design and conduct of regulatory and investigative toxicology programs to support registration of pharmaceutical formulations based on Alkermes' innovative drug delivery technologies. A broad knowledge of the pharmacology of biotechnology products and small molecule pharmaceuticals is preferred. Requirements include a DVM or Ph.D. in Toxicology or other biological sciences, and a minimum of 2 years in pharmaceutical toxicology. **Box SGR**

Pharmacokineticist

You will be responsible for guiding drug candidate selection and evaluation through to market launch. Duties include pharmacokinetic data analysis and modeling, protocol design, report and regulatory submission writing, presentation of results before internal groups and regulatory agencies, and collaborations with other scientists on project teams and external publications. Requirements include a Ph.D or Pharm.D with a minimum of 2 years of experience in clinical and/or preclinical pharmacokinetic research. Demonstrated knowledge in data interpretation using computer programs is required. Experience with controlled-release dosage formulations for proteins and small molecules administered by SC, IM, PO and pulmonary routes is desired. **Box SDB**

Product Development/Program Management Professionals

Alkermes is developing its own pharmaceutical products utilizing its proprietary drug delivery systems. These products will be the primary growth engine for the company in the next few years. We are seeking a senior product development professional to take a leadership role in this new group. The position will coordinate all functional aspects of development for key projects from late pre-clinical stage onwards. The position will report at the Vice President level and will have frequent interaction with senior management. An advanced degree and at least 10 years of experience in developing pharmaceuticals with significant program management and leadership experience are necessary criteria for this position. **Box SDH**

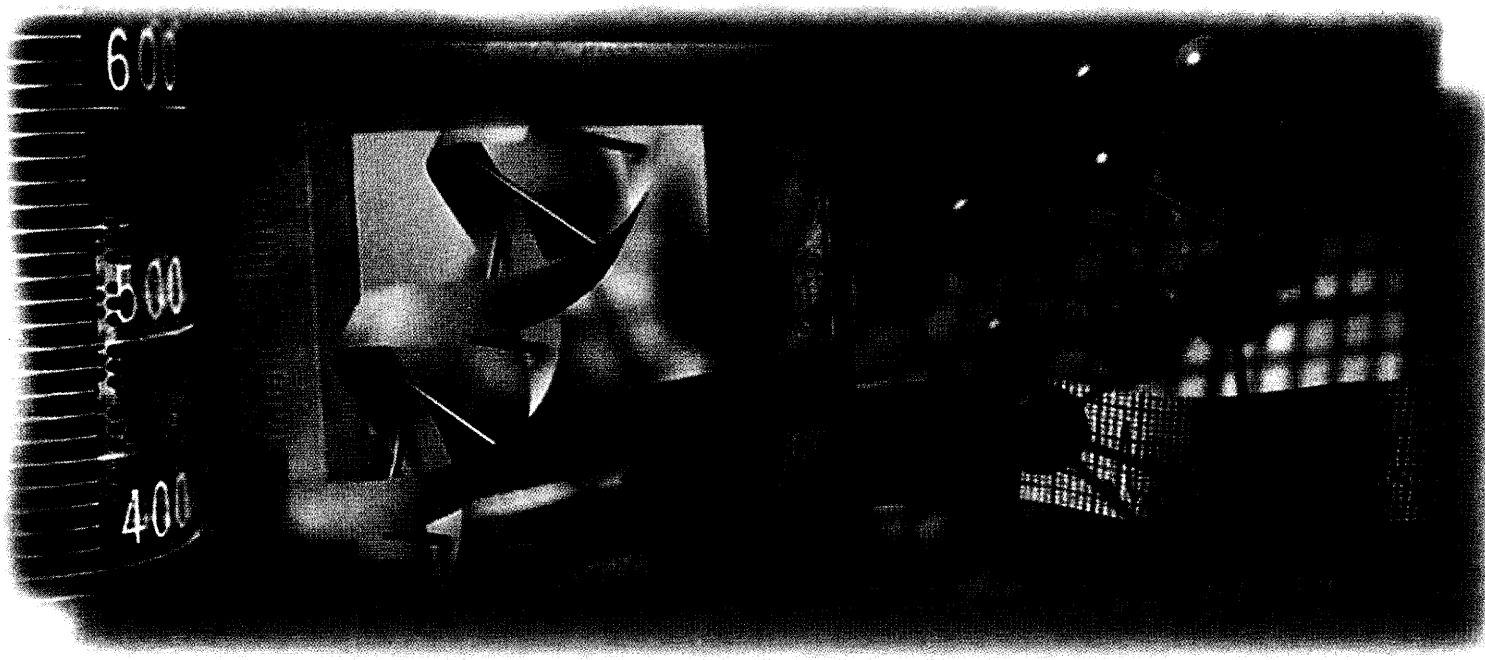
Scientist

Applied Biology uses biochemical, immunological and molecular approaches to understand protein release from polymer microspheres. You will be responsible for designing, executing and analyzing in vitro and in vivo studies to augment therapeutic protein/peptide bioavailability. Requirements include a Ph.D. in Biochemistry or related discipline and at least 2 years' post-doctoral experience. A strong bioanalytical background including HPLC, SDS-PAGE, IEF, Western blots, peptide analysis, mass spectrometry (MALDI/SELDI) and phage display libraries, and knowledge of cytokine biochemistry, proteases and extracellular matrix-associated proteins are also required. **Box SJD**

For immediate consideration, send your CV and cover letter indicating position desired to: Alkermes, Inc., 64 Sidney Street, Cambridge, MA 02139. Fax: (617) 494-9263.

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Help Shape the future of pharmaceutical innovation.

The outstanding success of Schering-Plough stems from a basic commitment to scientific research & development. In order to discover, and expedite the movement of new compounds into development, R&D expenditures have steadily increased since the early 1980's, with those in 1999 exceeding \$1 billion. At Schering-Plough Research Institute, our scientists are identifying and developing new drugs that directly target the causes of disease and may offer significant improvements over older treatments that only address disease symptoms. New tools and techniques are being used that help speed the selection and development of new therapeutic candidates that may have potentially fewer side effects, better efficacy and a greater likelihood of gaining marketing approval.

We invite candidates who meet any of the following requirements to join the exciting growth environment at Schering-Plough Research Institute's Lafayette campus in picturesque, rural Northwestern New Jersey, one hour from New York City.

GENERAL & REPRODUCTIVE TOXICOLOGY **Senior Scientist/Senior Principal Scientist - Study Director**

Will direct GLP internal studies in General or Reproductive Toxicology, monitor studies at outside contract laboratories and manage preclinical development programs. Doctoral and Postdoctoral level training in a scientific specialty related to toxicology plus 0-10 years experience in preclinical drug safety. Desire experience in project management and regulatory submissions in the pharmaceutical industry. **Job Code: XHXDD2008**

Senior Principal Scientist - Study Director - Molecular Biology - Genomics

Will investigate new molecular- and cell-based technologies for predictive toxicology, monitor studies at outside contract laboratories and manage preclinical development programs. Ph.D. plus Postdoctoral training in Molecular Biology, Molecular Pharmacology, molecular based Biochemistry or Investigative Toxicology with 3+ years experience in microarray/DNA chip gene expression methodologies and/or experience in protein analysis. **Job Code: XHXDD2022**

Assistant Scientist/Scientist

Will prepare drugs, observe for signs of toxicity, collect/tabulate data and assist in data verification and evaluation. BS/MS in biological or animal sciences and 0-12 years experience in general or reproductive toxicology and/or animal science, computer data entry and prior experience in a GLP environment. AALAS certification is desirable. **Job Code: XHXDD2003**

Supervisor - Reproductive Toxicology

Will direct the activities of the Reproductive Toxicology technical staff including staff training, computer validation and coordination of research study activities with other functional areas. BS/MS in a major scientific discipline with 8 years experience in Reproductive Toxicology in a GLP environment, including 2-4 years at the supervisory level. **Job Code: XHXDD2002**

Assistant Scientist - In Vitro Toxicology

BS in a biological science and some knowledge of genetic or investigative (biochemical or *in vitro*) toxicology. Experience in a GLP environment preferred. **Job Code: XHXDD2021**

DRUG METABOLISM **Scientist I/II**

Will integrate instrument data in a LIMS environment and write/review analytical reports. BS/MS in a relevant scientific discipline with 5+ years experience in drug metabolism and analytical methods development using HPLC and LC/MS. **Job Code: XHXDD9931**

SAFETY PHARMACOLOGY

An integrated General Pharmacology/Safety Pharmacology program is evolving which is bridging the progress of a new chemical entity from early discovery to late development.

Senior Principal Scientist - Study Director - Cardiovascular Pharmacologist

Establish various state-of-the-art *in vivo* models for the evaluation of new drugs for effects on cardiovascular hemodynamic and electrocardiographic functions. Will direct 3-5 technical staff. Ph.D., MD or DVM with appropriate training in the cardiovascular field plus postdoctoral level training. Up to 10 years exp. in the pharmaceutical industry and in a GLP environment desirable. Technical ability to assess cardiovascular activity using *in vitro* techniques also desirable. **Job Code: XHXDD2018**

Senior Principal Scientist - Study Director - Neuropharmacologist

Responsible for establishing various state-of-the-art *in vivo* models for the evaluation of new drugs for effects on central and peripheral nervous system functions. Will direct 3-5 technical staff. Ph.D., MD or DVM with appropriate training in the neuropharmacology field plus postdoctoral level training. Up to 10 years exp. in the pharmaceutical industry and in a GLP environment desirable. Technical ability for assessing neuropharmacologic activity using *in vitro* techniques also desirable. **Job Code: XHXDD2019**

PATHOLOGY

Associate Director - Veterinary Pathology

As a member of a multidisciplinary team, you will evaluate drug safety and develop strategies for registration of superior new therapies worldwide. DVM/VMD and/or Ph.D. and board eligibility/certification by the American College of Veterinary Pathologists, and anatomic pathology experience in various toxicity studies, including chronic toxicity and carcinogenicity studies. Strong scientific background with experience designing, developing and registering pharmaceutical agents and managing pathologists and technical personnel required. **Job Code: XHXDD2006**

Senior Research Pathologist

Will participate on a multidisciplinary team to research mechanisms of drug efficacy and toxicity and evaluate drug safety. DVM/VMD and/or Ph.D. plus board eligibility/certification by the American College of Veterinary Pathologists, and anatomic pathology experience in investigative and toxicologic pathology. **Job Code: XHXDD2005**

Assistant Scientist - Clinical Pathology

Will perform routine chemistry and hematology assays under GLP guidelines. BS in a major scientific discipline plus 2-4 years experience in Clinical Pathology. Certification in Medical Technology MT (ASCP) required. **Job Code: XHXDD2017**

ANIMAL RESOURCES

Staff Veterinarian

DVM/VMD and ACLAM certification or eligibility. 5 or more years experience in a GLP scientific laboratory desirable. Specialized surgery skills highly desirable. **Job Code: XHXDD2024**

Staff Veterinary Ophthalmologist

DVM/VMD plus a 2-3 year residency program specializing in ophthalmology. Ophthalmology board certification or eligibility required. Lab animal experience and surgery skills highly desirable. **Job Code: XHXDD2025**

SCIENTIFIC WRITING

Scientific Writer - Regulatory Submissions

Prepare and coordinate the review of toxicology sections of worldwide regulatory submissions (INDs, INDs, NDAs, HRDs, BLAs and tabulated study reports) within corporate guidelines. BS/MS in a life science plus 8-10 years experience in preclinical regulatory document preparation and knowledge of pharmacotoxicological regulatory guidelines. **Job Code: XHXDD2011**

COMPUTER SERVICES

Manager - Computer Services - Drug Safety Evaluation Center

In conjunction with the Drug Safety Evaluation Center scientific and technical staff, will anticipate and define the computer functional needs and work with various departments to meet those needs. MS in Business Administration/Management or Computer Sciences or BS in Computer Sciences or Business Administration/Management with 15 years experience in preclinical aspects of pharmaceutical development. 10 years experience in a GLP environment managing a scientific computer staff is required. Must have a thorough understanding of business aspects of preclinical toxicology to support the user community. **Job Code: XHXDD2010**

Systems Coordinator (Computer Validation)

Provide support to the user community in regards to scientific computer applications to include assisting in computer validation. BS in Computer Science or Biology with 4+ years experience supporting a scientific research organization in a GLP environment. **Job Code: XHXDD2026**

For prompt, confidential consideration on the above positions, we invite you to apply on line or forward your resume, which MUST include Job Code for position of interest, to: **E-mail: sprisc@search.com or Mail: Human Resources-JA, Schering-Plough Research, 144 Route 94, P.O. Box 32, Lafayette, NJ 07848.**

We invite candidates who meet any of the following requirements to join our state-of-the-art Kenilworth and Union research campuses, both in North Central New Jersey, less than one hour from New York City.

DRUG SAFETY & METABOLISM

Ph.D. Head, Toxicokinetics

Create and implement a toxicokinetics (TK) group to provide necessary TK support to our Toxicology organization. Interact with toxicologists in the design, dose-selection and interpretation of safety studies, integrate TK with toxicology data, design and conduct ancillary TK studies to explain Tox/TK findings, supervise 2-3 reporting scientists. Ph.D. Toxicology, Pharmacokinetics or equivalent with 5-8 years of relevant post-Ph.D. industrial experience. Expert knowledge of GLP requirements and regulatory TK guidelines needed.

Job Code: XHXDD0092

Ph.D. Senior Scientist - In Vitro Metabolism/Drug Disposition

Conduct *in vitro* drug metabolism studies directed towards the isolation and identification of drug metabolites. Ph.D. in Pharmacokinetics or equivalent and 0-4 years of relevant experience. Enzymology background needed. Experience using modern analytical techniques (HPLC, GC, Two-dimensional TLC) and familiarity with the diversity of *in vitro* techniques (*in vitro* incubations, antibodies for cytochrome P-450s, microsomes, tissue slices, hepatocytes, everted intestine, Ussing diffusion chambers, etc.) a must.

Job Code: XHXDD0087

Ph.D. Senior Scientist - (AME/ADME Studies)

Conduct and report on pre-clinical and AME and ADME studies, conducted both in-house and those out-sourced at contract research organizations (CRO's). Ph.D. in Pharmacokinetics or equivalent along with 0-5 years of relevant experience in drug metabolism, toxicology, biochemistry, or animal related sciences. **Job Code: XHXDD0086**

Ph.D. Senior Scientist - In Vitro Metabolism/Discovery Support

Design and conduct *in vitro* assays and perform *in vitro/in vivo* scaling in support of our drug discovery groups. Ph.D. in Biochemistry, Pharmacology, Pharmacokinetics or equivalent with 0-2 years of relevant post-Ph.D. experience. Background must include enzyme assays, kinetics and experience using modern analytical instruments. **Job Code: XHXDD0077**

Ph.D. Analytical Chemist (LC/MS) - Drug Metabolism and Pharmacokinetics

Primary focus, with our Drug Disposition Mass Spectrometry lab, is to manage one of several Finnigan LC-MS (LCQ and TSQ) systems or a QTOF/QSTAR system and participate in the development and validation of chromatographic methods to characterize drugs/metabolites in biological samples. Will provide support for pharmacokinetic and drug metabolism/safety studies and perform sample analysis and data interpretation. Ph.D. in Chemistry, Biochemistry, Toxicology or Pharmaceutical Science and 2-5 years of LC/MS experience related to drug discovery or development. Research experience related to radioisotope handling, metabolite profiling, skills in HPLC, and, operation of a mass spectrometer required. **Job Code: XHXDD0085**

BS/MS Research Associate - Drug Disposition

Dose, collect and analyze samples (radiolabeled and non-radiolabeled) for the purpose of conducting *in vivo* ADME studies and writing reports, developing/analyzing spreadsheets, and protocol development. BS/MS in a relevant life sciences discipline and 4-7 years (2-4 with MS) research experience (as indicated above) in the areas of drug metabolism or disposition, toxicology, or other *in vivo* related sciences. **Job Code: XHXDD0089**

BS/MS Analytical Chemist (LC/MS)

Assist in the extraction and isolation of drugs and metabolites from biological matrices and in the operation of LC/MS systems with UV and radiometric profiling efforts and maintaining LC/MS systems. Write/review study protocols, SOP's, reports and data archiving and monitor metabolite-profiling work conducted at contract laboratories. BS/MS in Chemistry or equivalent and 2-7 years of experience (0-4 with MS) in *in vivo* and *in vitro* metabolism, chromatographic techniques, radioactivity handling and isolation/identification of metabolites with chemistry/analytical chemistry and biochemistry background. **Job Code: XHXDD0090**

Ph.D. Organic Synthesis Chemist

Ph.D. in Organic Chemistry with 0-4 years post Ph.D. experience (post doc and/or pharmaceutical industry) in synthetic organic chemistry. Experience must include design of synthetic schemes to synthesize biologically important compounds, strong knowledge of small and/or large-scale organic synthesis, and working knowledge of modern spectroscopic and chromatographic techniques. **Job Code: XHXDD9991**

BS/MS Organic Synthesis Chemists

BS/MS in Chemistry with 3-5 years experience (0-3 years with MS) in synthetic organic chemistry. Experience in solid phase organic chemistry and/or combinatorial methods highly desirable. Strong knowledge of modern spectroscopic and chromatographic techniques essential. **Job Code: XHXDD9993**

INFECTIOUS DISEASE RESEARCH

Ph.D. Scientists - Microbiology/Immunology

Ph.D. in Microbiology, Immunology or Molecular Biology with 2+ years postdoctoral experience to focus on microbial pathogenesis and host responses. Expertise with *in vivo* models desired. **Job Code: XHXDD9982**

Ph.D. Scientists - Assay Development

Ph.D. in Biology or Chemistry with 2-5 years of postdoctoral or industry experience to conceive and develop biochemical assays for primary, high-throughput screening and for detailed characterization of leads. **Job Code: XHXDD00RP**

IMMUNOLOGY

Ph.D. Postdoctoral Scientist - Signal Transduction/Genomics

This fellowship will focus on analysis of a novel MAPK module utilizing traditional as well as cutting-edge technologies such as large-scale DNA arrays and sequence databases. Training will be provided in signal transduction and genomics. Ph.D. with background and/or education in Biochemistry, Molecular Biology or equivalent and up to 3 years postdoctoral experience needed. **Job Code: XHXTM99995**

Postdoctoral Fellow-Viral Chemokines

MD/Ph.D. to study the biological role of viral chemokines, perform targeted mutagenesis of orphan GPCRs and focus on analysis of several transgenic models, including the recently described model for Kaposi's Sarcoma (JEM 191.445-454; 2000). Background in Immunology required. **Job Code: XHXTM0016**

Research Associate

BS/MS in Biology or equivalent with experience in isolating and characterizing lymphocytes and macrophages, tissue culture, flow cytometry, immunohistochemistry, histology and general immunological methodology (e.g., cytokine ELISAs and cell proliferation assays). Experience in conducting *in vivo* models of autoimmune disease, infectious disease and tumor growth required; training in molecular biology a plus. Will participate in projects directed toward discovery of potential therapeutics for autoimmune diseases. **Job Code: XHXDD0002**

MICROBIAL GENETICS

BS/MS Research Associates

BS/MS in Molecular Biology or equivalent with 2 years experience and expertise in microbial genetics, molecular biology and biochemical techniques to join team involved in Actinomycete molecular biology and production of secondary metabolites. **Job Code: XHXDD00TH**

CV/CNS

BS/MS Pharmacology

BS/MS in Biology, Biochemistry or equivalent with 3-6 years *in vivo* pharmacology experience. Molecular biology skills a plus. **Job Code: XHXDD9111**

ONCOLOGY RESEARCH

MS Research Associate

MS in Molecular Biology or Biochemistry; 5-9 years of experience to become involved in translational research; and knowledge of immunologic techniques and cloning required. Industry experience desired. **Job Code: XHXDD0063**

ALLERGY

Research Associate - GENOMICS

BS/MS in Biology or equivalent with 2+ years experience in a biochemistry and/or molecular biology lab with significant experience in biochemistry such as protein purification and characterization, HPLC and Western blot. Perform experiments and data analysis of gene expression profiling in diseased tissues by microarray and real time PCR (Taqman). Utilize all necessary recombinant DNA techniques to identify, clone and express novel disease genes; purify and characterize novel proteins as well as develop biological assays. **Job Code: XHXDD0097**

Research Associate - PROTEOMICS

BS/MS with 5+ years of lab experience and expertise in Biochemistry, Molecular Biology and Cell Biology. Ideal background will include protein purification experience, and published papers. Will work to find new drug targets in Allergy, Asthma and COPD, using new state-of-the-art equipment. **Job Code: XHXDD0096**

AUTOMATED HIGH-THROUGHPUT SCREENING Life Science/Computer Science Majors

Entry-level opportunity involves using your programming and organizational skills to support our HTS drug discovery efforts. Manage and prepare our compound collection, and develop novel methods for maximizing team efficiency. Experience with bar-coding and inventory databases ideal. **Job Code: XHXDD9183**

Research Associate - Instrumentation Specialist

BS in Biochemistry, Pharmacology, Medical Technology or other Life Science, and a strong background with semi-automated instrumentation including automated pipetting modules, lab robotics, and microtiter plate readers. Programming skills in VB, C++ and familiarity with AutoCAD are major pluses. Will program and troubleshoot automated robotic equipment; write drivers to integrate systems; design integration of existing modules. **Job Code: XHXDD9975**

BIOTECH & CHEMICAL DEVELOPMENT Scientist (Biotech Development)

Positions in the Process Research Group in Biotechnology Development to provide technical support in the area of mammalian cell line maintenance, including the evaluation and implementation of new preservation techniques and the development of novel methods to monitor cell banks for viability, purity and genetic changes. BS/MS in Microbiology, Cell Biology or equivalent with 5-10 years laboratory experience. **Job Code: XHXBD2014**

Associate Scientist (Biotech Development)

Recent advances in the cell culture production and purification process require an experienced individual for the Purification Scale-up and Production Group to support process development activities and GMP production of biotechnology products. BS Biological Science with 4-7 years experience in protein purification and characterization or MS with 2-5 years experience. **Job Code: XHXBD2002.**

Senior Scientist (Chemical Development)

Organic Chemist with demonstrated aptitude for solving R&D problems by thesis or industrial accomplishments. Familiarity with modern spectroscopic and analytical techniques required. Ph.D. Organic Chemistry with 0-4 years post doc experience in organic synthesis. **Job Code: XHXCD2004**

Assistant Scientist (Chemical Development)

Background in synthetic organic chemistry and a demonstrated use of NMR, IR and HPLC required to support the Chemical Process Research and Development group. BS/MS Organic Chemistry with 0-4 years industrial experience. **Job Code: XHXCD2012**

For prompt, confidential consideration on the above positions, we invite you to apply on line or forward your resume, which MUST include Job Code for position of interest, to: **E-mail: sprisc@isearch.com** or **Mail: Human Resources, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033-1300. EOE**

For additional information,
or to apply online, visit our website at:

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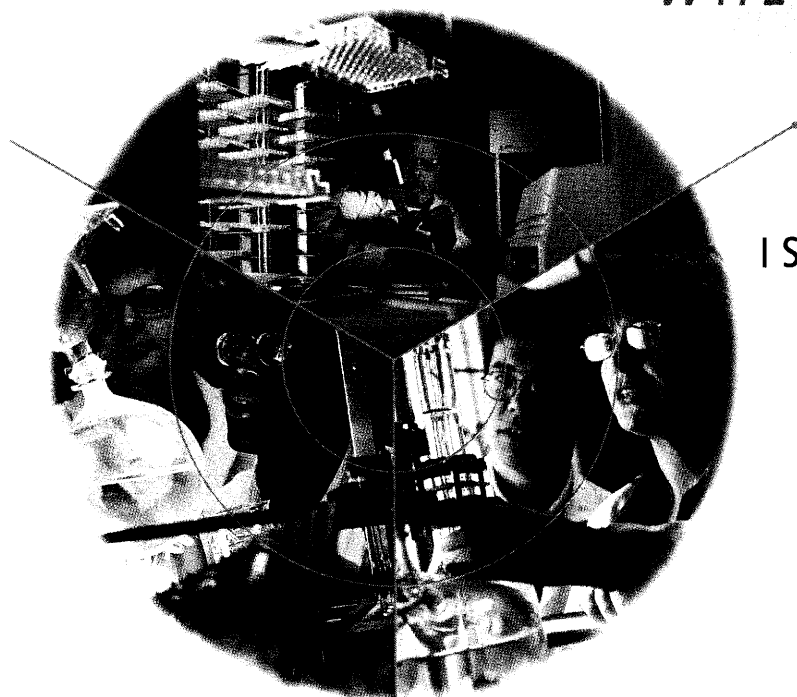
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Over the last 3 years, Abbott has built a highly competitive and dynamic metabolic disease drug discovery program. We have several biotechnology and academic collaborations, and a strong internal program. We are looking for scientists that are eager to be a part of bringing this program to its full potential in the discovery of new drugs for the treatment of diabetes and obesity.

Sr. Research Biologist/Research Investigator

Perform discovery research in the area of new therapeutic targets for treating diabetes and obesity. This position requires a Ph.D. in the Biological Sciences and at least three years of postdoctoral experience in cellular metabolism or physiology related to diabetes or obesity research. Ad Code: 99-KDA2966

Sr. Research Pharmacologist

Develop and implement research animal models of diabetes and obesity. Lead investigations using animal models of diabetes and obesity with potential new therapeutics. This position requires a Ph.D. and several years of postdoctoral experience in animal pharmacology, preferably working with relevant animal models of diabetes and obesity. Ad Code: 2K-KDA1558

Pharmacologist & Associate Pharmacologist

Work with a Sr. Pharmacologist to conduct investigations with experimental new agents in animal models of diabetes and obesity. These positions require a B.S. or M.S. degree and relevant experience with pharmacology animal models, preferably models of diabetes and obesity. Ad Code: 2K-KDA0880

Associate Chemists

Positions available for Associate Organic Chemists in metabolic research.
Ad Code: 2K-KDA1723

Sr. Research Microbiologist

Determine structure activity relationships of novel antibacterial agents by susceptibility test methods, and characterize the mechanisms of antibiotic resistance and the mode of action of antibacterial agents using molecular, biochemical and microbiological techniques. Ph.D. in Microbiology or Biochemistry along with research experience in molecular mechanisms of antimicrobial resistance and/or mechanism of action are required. Knowledge of antimicrobial susceptibility testing, characterization of antimicrobial agents, infectious diseases, and microbial epidemiology, and prior experience handling pathogenic bacterial and fungi are essential. Experience training in clinical microbiology is preferred. Ad Code: 99-KDA3410

Sr. Research Cell/Molecular Biologist

Participate in the identification of new targets and the development of cellular and short-term animal models for the assessment of efficacy and pharmacodynamics of novel anti-cancer agents. Ph.D. with postdoctoral experience and extensive familiarity with signaling and cell-cycle processes that regulate cell proliferation are required. Experience with immunohistochemistry and in vivo tumor models is strongly desired. Ad Code: 2K-KDA1769.

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SUMMER SPOTLIGHT ON

drug discovery

For the drug discovery community, all pipelines will lead to Boston this summer. IBC's fifth Annual World Congress, Drug Discovery Technology 2000, will take place between August 14 and 18 in Boston's World Trade Center and Seaport Hotel. The conference will put the spotlight on integrated and interdisciplinary approaches adopted by R&D organizations in giant pharmas and small biotechnology companies that will speed up the process of discovering drugs. Organizers expect the event to attract more than 2,000 individuals and 225 exhibitors.

Those visitors will hear about the rush of events in genomics that have changed forever the nature of drug discovery. "It will be a kind of alumni meeting for the Human Genome Project people," says Nigel Beeley, vice president and chief chemical officer for Arena Pharmaceuticals and a member of the event's scientific advisory committee. "At the meeting, you'll see a lot more activity in the space between the gene sequences and the discovery of something pharmaceutically useful. You'll hear a lot of stories like our own, in which people are finding clever ways to use the Human Genome Project."

The symposium will also look into the crystal ball. J. Craig Venter, president of Celera Genomics, the company that has taken its own route to mapping the human genome, will give a keynote address on "The Future of Genomics." In another keynote talk, Frank Douglas, head of drug innovation and approval for Aventis Pharmaceuticals, will outline "The Drug Discovery Paradigm for the New Millennium."

Several sessions will also take a futuristic approach. "One issue will be pharmacogenomics," says Norton Peet, head of medicinal chemistry at Aventis Pharmaceuticals, who is also a member of the scientific advisory committee. "It's an issue because, in the past, pharmaceutical companies have wanted to develop blockbuster drugs containing one small molecule to treat all patients. That doesn't always work because people handle drugs differently. So the study of pharmacogenomics will be very important in establishing subsets of people. We need to concentrate on developing different drugs for different people."

That theme will point to future work for scientists connected with the Human Genome Project. The raw genetic material used for the project came from a small number of individuals. "So you have no idea of population differences that may be associated with diseases," says Beeley. "There's still an enormous amount of work to be done. Finishing the Human Genome Project may simply pinpoint a subset of genes for the pharmaceutical industry to focus on for the next 10 years."

In the conference's third keynote address, "A New Paradigm in Chemical Library Generation," Cambridge University professor of organic chemistry Steven Ley will outline new concepts for creating chemical libraries. Pre-conference symposia will cover such topics as managing information in drug discovery, collaborative ventures, and the impact of patents on drug discovery.

2000



For further information on Drug Discovery Technology 2000, please contact IBC USA Conferences in one of the following ways:

Mail: 1 Research Drive, Suite 404A,
Westborough, MA 01581

Tel: 508-616-5550

Fax: 508-616-5533

Online: www.drugdisc.com

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Genetic Toxicologist—Outsourcing Monitor

Supervise genetic toxicology *in vivo* testing and act as Study Director and Study Monitor for regulatory in-house and outsourced GLP testing. Requires a PhD in Genetic Toxicology, Molecular Genetics or a related field and relevant postdoctoral experience. Ad Code: 0002662SCI

Computational Toxicologist/Informatics Specialist

Oversee and participate in multidisciplinary teams developing integrated *in silico* toxicology information and knowledge base and predictive systems through SAR and (Q)SAR approaches. Qualifications include a PhD in Chemistry, Life Sciences, Computational Chemistry or Toxicology, as well as research experience in chemistry or toxicology informatics, database development, and toxicology SAR or (Q)SAR model development. Ad Code: 0002643SCI

Research Scientist, Bioinformatics

Develop and apply computational tools for analyzing genome data to support drug discovery. Requires an MS (PhD preferred) in Molecular or Structural Biology; strong background in relational databases and SQL and Perl programming in a Unix/Mac/NT environment; and 2+ years relevant experience in bioinformatics applications. Ad Code: 982028SCI

BS/MS Chemist

You'll synthesize, purify and characterize novel small molecule biological effectors to support a team aimed at developing new therapeutic compounds. Beyond a BS/MS in Chemistry or Organic Chemistry, you'll need laboratory research experience in synthetic organic chemistry and strong academic achievements. Ad Code: 0003901SCI

BS/MS Scientists, Drug Metabolism

Conduct *in vivo* and *in vitro* metabolism and pharmacokinetic studies and develop/utilize bioanalytical methods for monitoring drugs and metabolites in novel drug discovery. These positions require a BS/MS in Chemistry, Pharmaceuticals, or Biochemistry. Disposition positions require experience with HPLC, LC/MS techniques; Ad Code: 0002746SCI. Technology positions require experience *in vitro* permeation, drug-drug assays, and cloning. Ad Code: 0003221SCI

Research Scientist, Drug Metabolism

Conduct drug metabolism and pharmacokinetic studies (*in vivo* and *in vitro*) to support drug discovery and to identify and prioritize new drug candidates. A PhD or equivalent in Chemistry and Biochemistry is required, as is postdoctoral experience in pharmacokinetics, drug metabolism, analytical chemistry and *in vitro* or metabolism techniques. Ad Code: 0003621SCI

Manager, Material Management Group

Your leadership will ensure Pfizer world-class access to proprietary and enabling compounds, monomers, and combinatorial chemistry reagents. Requires a BS/MS in Chemistry or equivalent training supported by 5-7 years of successful material management experience—including both personnel and project management—in the pharmaceutical industry. Ad Code: 0003201SCI

Research Scientist, Computational Chemistry

Apply computational and monitoring efforts to facilitate combinatorial chemistry, lead optimization, and structure-assisted drug design and help the team review priorities and allocate resources. Requires a PhD in Chemistry or Computational Chemistry with 6 years work experience, preferably in drug discovery chemoinformatics. Ad Code: 9924149SCI

Cardiac Electrophysiologist

You'll help define the effects of new chemical entities on the action potential of isolated cardiac tissues and define the underlying ionic conductance processes affected. You'll need a BS/MS and 1-2+ years of industry or academic background of *in vitro* electrophysiological techniques. Ad Code: 0000902SCI

FACS Operator

A senior associate, you'll be responsible for the Groton FACS cell sorting facility—now under construction—based on a new Vantage SE FACS and custom-designed laboratory. Along with a BS/MS in Biology, Molecular Biology or Cell Biology, you must have 2 years of academic, hospital or industrial experience operating a FACS facility. Ad Code: 0002743SCI

Recently ranked among *Fortune's* 100 Best Companies to Work For, and *BusinessWeek's* list of 50 Best Performing Companies in the United States, Pfizer offers an exceptional work environment complete with training opportunities designed to develop your supervisory effectiveness and professional talents. We encourage all candidates to apply online through our website at www.pfizer.com or explore opportunities on other Pfizer websites, opposite. Candidates interested in opportunities at our Discovery Technology Center in Cambridge, MA, should visit www.pfizerdtc.com. If necessary, you may also mail your resume, indicating the appropriate Ad Code, to: Pfizer Inc, Central Research, c/o Aon Consulting, P.O. Box 25, Findlay, OH 45839. Pfizer is an equal opportunity employer.

Explore new worlds of pharmaceutical innovation in a work environment that encourages progressive thinking. As a \$32+ billion international company that focuses on research, Bayer is making great strides in curing and preventing diseases.

Currently, we have exceptional career opportunities available at our our Corporate Headquarters in WEST HAVEN, CT and at our BERKELEY, CA-based Biotechnology/Biological Products unit, which houses a world-renowned facility responsible for the global research, development and production of leading biotechnology-derived products.

OPPORTUNITIES IN WEST HAVEN, CT

ASSISTANT DIRECTOR, SCIENTIFIC COMMUNICATIONS

You will be responsible for developing and implementing a scientific communication strategy for one or more drug products or therapeutic areas to achieve Bayer's US and international marketing and sales objectives. Communicate scientific and clinical data to the medical community by writing and supervising the creation of articles for the medical literature, presentations for national conferences, slide kits, and other educational material. Requires a strong scientific/medical background, a Ph.D, MD or PharmD in a scientific/medical discipline, plus a minimum of 5 years of experience in a related scientific/medical/pharmaceutical area, including a minimum of 4 years of medical writing. Ability to supervise consultants and motivate individuals. Job Code: ASMW0866

PRINCIPAL RESEARCH SCIENTIST

Diabetes Research-Animal Physiologist

This position seeks an animal physiologist experienced in the pharmaceutical drug discovery process for new anti-diabetic therapies. The successful candidate will direct a laboratory group in the diabetes section that will conduct animal physiology studies. The candidate should be an expert in the use of animal models for type 2 diabetes. The incumbent will be expected to use the pathophysiology of type 2 diabetes to identify new targets and to develop new disease animal models to test compounds. The successful candidate will have practical experience in drug discovery research and will have made significant contributions to work that has proved a clinical candidate. Experience in multiple phases of the drug discovery process is highly desired. Qualified candidate will possess Ph.D. with a minimum of 8 years relevant experience, an MS with a minimum of 10 years relevant experience, or a BS with a minimum of 12 years relevant experience; industry experience is preferred. Job Code: WH-0842

SCIENTIFIC EDITOR

Support the Associate and Assistant Directors by writing and editing scientific articles, poster and slide presentations for national conferences, and other educational materials. Perform literature searches, track project development, revise publications based on critical review and interface with medical publishers and opinion leaders. Requires a strong scientific background, a Ph.D or PharmD in a scientific/medical discipline, plus a minimum of 3 years experience in a related scientific/medical/pharmaceutical area at least two of which must include medical publishing. Requires an excellent ability to interpret scientific and clinical trial data, strong scientific writing ability, and editorial skills. Job Code: ASMW0873

PRINCIPAL RESEARCH SCIENTIST

Diabetes Research-Biochemist/Cell Biologist

This position seeks a biochemist/cell biologist experienced in the pharmaceutical drug discovery process for diabetes. The incumbent should be well versed in enzyme kinetic analysis, protein purification and basic cell biology procedures. A broad knowledge of the steps in drug discovery that begins with the identification of a target drug to the eventual delivery of a pre-clinical candidate is required. This knowledge should be supported by practical experience and evidence of a significant contribution to work that provided a clinical candidate. Experience in the prosecution of diabetes targets and drug discovery programs in diabetes is highly desired. Qualifications for the position include a Ph.D with a minimum of 8 years of relevant experience, an MS with a minimum of 10 years relevant experience, or a BS with a minimum of 12 years of relevant experience. The successful candidate will direct a laboratory group and be responsible for research programs that identify drug targets for type 2 diabetes. Job Code: WH-0778

OPPORTUNITIES IN BERKELEY, CA

SR. SCIENTIST- MOLECULAR PATHOLOGIST

This position is responsible for establishing a core molecular pathology research lab with capabilities in nonisotopic in situ hybridization procedures, immunohistochemistry, quantitative PCR, TR PCR, and other molecular techniques. Requires a DVM or VMD degree and advanced training in experimental pathology (Ph.D preferred) with 2+ years of relevant experience, and certification or eligibility for certification by the American College of Veterinary Pathologists. Demonstrated experience in in situ hybridization, immunohistochemistry and PCR technology required. Job Code SW0524

STAFF SCIENTIST-PROCESS SCIENCES

Analytics and Formulation

You will direct the laboratory responsible for structural characterization of recombinant proteins using HPLC, SDS-PAGE, amino acid analysis, protein sequencing and mass spectrometry. You will develop characterization plans for protein therapeutics and take major responsibility for writing characterization documents for regulatory submissions. Requires a Ph.D with 6+ years of proven experience and accomplishments; MS with 8+ years; or a BS with 10+ years. Thorough knowledge of protein biochemistry and experience using HPLC, sequencing and protein mass spectrometry (ESI-MS and MALDI-TOF) for structural characterization essential. Proven supervisory experience and familiarity with regulatory compliance in operation of a GLP lab necessary. Job Code SW0624

PRINCIPAL STAFF SCIENTIST, RESPIRATORY PHARMACOLOGY

You will actively participate in and supervise department staff for respiratory disease research. You will plan, design and implement research or development programs to provide supportive biopharmaceutical, pharmacology and efficacy information on products under clinical development. Requires a Ph.D, DVM or MD in Pharmacology/Physiology with 8+ years in a biopharmaceutical research/industrial environment. Strong managerial, interpersonal and communication skills and team approach mandatory. Job Code SW0629

MANAGER, QA INSPECTION & RAW MATERIALS

You will manage the raw materials clearance and materials evaluation functions in Quality Control. Your group will handle incoming inspection and quarantine of all raw material chemicals, involving sampling and requesting/coordinating required incoming tests, final product raw material excipients in-process and final product raw material impurity testing. Requires a Ph.D or MS in an analytical science or equivalent, along with 6+ years of industrial experience, preferably in pharmaceutical quality assurance/control. Sound knowledge and practical experience in application of statistical quality control methods, data analysis and control charting, as well as experience in techniques of inspection and rational basis for sampling are critical to this position. Technical training in analytical methods and instruments will be key. Job Code: HSBK-0577

OPPORTUNITIES IN BERKELEY, CA

ASSOCIATE DIRECTOR, REGULATORY AFFAIRS

You will be responsible for the global registration of Bayer BP/BT products starting with product development through launch, supplements, new indications and next-generation products. Joining respective product project teams, you will provide regulatory guidance, plus represent the project to regulatory authorities. This will involve coordinating, reviewing, writing, tracking and compiling/assembling the documents needed for each type of submission. You will also participate in regulatory guideline, review and policy-making activities and committees. Requires a college degree or equivalent with 5+ years of regulatory experience. Some biology or biotechnology industry experience would be ideal. Of course, you should keep up-to-date on international biological regulatory requirements and guidelines along with current issues facing the industry. Job Code: HSBK-0344

ASSISTANT DIRECTOR, REGULATORY AFFAIRS

This senior-level position will provide expert regulatory advice to management and project teams on global project development to ensure rapid regulatory approval. This will require keeping abreast of all regulatory developments and associated issues in order to strategize optimal solutions for Bayer. The ideal candidate will have a college degree or equivalent with 3+ years of experience in regulatory affairs, preferably with biological/biotech products. You must be able to assess the impact of emerging guidelines and to develop a strategy to counter or utilize and implement these effectively. Experience in multidisciplinary cooperation required. Some travel will be expected. Job Code: HSBK-0487

SCIENTIST, MASS SPECTROSCOPY

You will be responsible for the characterization and identification of proteins from complex and enriched mixtures using electrospray ion-trap and MALDI mass spectrometry. Experience in nanospray mass spectrometry, microbore and capillary HPLC and/or capillary electrophoresis is highly desired. Requires a BS/MS in Biochemistry, Analytical Chemistry or related field with 2+ years of hands-on experience using mass spectrometry. Job Code SW0479

SR. SCIENTIST, LABORATORY HEAD-ASTHMA

You will be responsible for implementing and overseeing lab activities for discovery research in asthma. You will implement state-of-art molecular and pharmacology techniques to search for novel protein drugs, as well as plan, design, and implement study protocols and interpret data from models. Requires a Ph.D in Pharmacology/Physiology with 2+ years in a biopharmaceutical research environment. Direct knowledge of in vitro and in vivo animals of asthma needed. Excellent interpersonal and communication skills essential. Job Code SW0726

REGULATORY AFFAIRS ADMINISTRATOR

You will prepare complex submissions to various governmental regulatory agencies and assure assigned products are in compliance with domestic and international regulatory requirements, including product registrations (INDs, BLAs and 501ks), good manufacturing practices, labor practices, clinical practices, and other appropriate regulations. Coordination of relevant internal company activities will be required in order to provide necessary information for government submissions. This individual will also advise company personnel of regulatory strategy. Requires a degree in physical and/or life sciences or equivalent, with 7+ years of technical experience in the pharmaceutical industry. Expertise with manufacturing, GMP compliance, validation, and regulatory requirements required. Job Code: HSBK-0557

VALIDATION SPECIALIST

You will perform validation studies in support of validation and revalidation projects in a production environment. With an eye toward regulatory compliance, this will involve analyzing validation data; coordinating validation activities with production, engineering, maintenance, QA, etc. during projects; and maintaining accurate, timely documentation throughout the process. You will also prepare, program, maintain and use data acquisition systems used for equipment and processes. Requires a BS or equivalent in Engineering or a scientific discipline, with 3+ years experience in the pharmaceutical industry and successful work in one of the following areas: Production, Engineering, QA or Research. Technical expertise encompassing engineering, instrumentation, biology, chemistry, microbiology, statistics and thermodynamics is desired, as well as familiarity with plasma processing, IV systems manufacturing, GMP regulations and QA operations. Job Code: HSBK-0451

SENIOR VALIDATION SPECIALIST

As the plant expert within a specific validation area, you will direct process validation activities for critical equipment, processes and control systems. Of course, preparing technical papers, attending outside conferences and carrying out vendor audits will be expected. You will also apply state-of-the-art validation principles for complex projects and provide reports for regulatory compliance. You will also develop and provide advanced technical training. Requires at least a BA/BS or equivalent with 6+ years' relevant experience. Must be familiar with site manufacturing operation, regulatory and GMP guidelines and QA policies. High degree of technical understanding of issues within and outside of validation and the ability to design, implement and evaluate complex systems a necessity. Job Code: HSBK-0454

STAFF SCIENTIST, PHAGE MOLECULAR BIOLOGY

As a key contributor on a number of project teams, you will develop novel approaches to the discovery and validation of novel protein therapeutics. Requires a Ph.D in Biochemistry, Molecular Biology, and 2+ years of post-doc experience with phage display and protein engineering technology. Supervisory background and the ability to collaborate and communicate with colleagues from other disciplines are essential. Job Code SW0356

Bayer offers an attractive compensation and benefits package and has a comprehensive flexible employee benefit program which includes (but is not limited to): medical and dental plans, short and long term disability, pension and 401K plans, life insurance, AD&D, domestic partner benefits, paid vacations and holidays, adoption services coverage and education assistance.

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"No science stands by itself in this industry," says Paul Sweetnam. "You need the willingness to interact with people in different disciplines."

Sutcliffe expects the company to expand by about 50 percent in the next year from its present staff of 85. At present, Ph.D.s make up roughly 20 percent of the 75 scientists on staff. But Sutcliffe says that about 75 percent of the new hires will have Ph.D.s. They will need that qualification to be able to interpret and apply results from TOGA.

Beyond the doctorate, "team orientation is the most important factor. We want an environment that is challenging scientifically, yet enjoyable to work in," adds Sutcliffe. "There's a wonderful opportunity here, now that the technology has been proved and is operating in a high-throughput way on discovery in a wide variety of diseases."

SAN LEANDRO, California: As a company that specializes in discovery informatics for the life science industry, MDL Information Systems has benefited from the acceleration of the drug discovery process. "The demand for new drugs is voracious," says Chuck Simoncini, MDL's vice president of human resources. "That makes it easy for us to sell products."

The company's software, content, and services provide clients with a framework for identifying successful new products. "We like to consider ourselves the informatics backbone," says Simoncini. "We've also branched out into work flow process and logistics process to manage inventories of the elements needed for research. And we offer decision support and search and retrieval." Pharmaceutical corporations remain the main targets for those offerings. However, says Simoncini, "a significant amount of our business now comes from biotechnology companies."

MDL is hiring life scientists with a range of qualifications. "We have openings available at all academic levels," says Simoncini. "We can go with people at the B.S. level, but several of our positions require advanced degrees. A number of our people have Ph.D.s." The company focuses particularly on biologists and chemists, especially those with experience in testing software and programming in the laboratory. "These are the kinds of scientists we like best because they know what it's like to be a user and have the ability to change things," notes Simoncini. "People with those skills do very well in our company. They can continue on a dual path that takes them up to more senior levels as individual contributors or into management."

The company also has two tracks for its researchers. "We have a number of R&D scientists who develop products," explains Simoncini. "We also have 'futurists,' who look out for technologies that will be relevant five years from now."

What intangible qualities does MDL seek in its recruits? "Most of our people work very closely in teams. So we value really good communication skills," says Simoncini. "We also want creativity — the ability to stretch the envelope. We're looking for people who are flexible, who want to try new avenues, who will be very comfortable working in a scientific community and dealing with colleagues, and who have a yearning to create tools that will be used in different ways."



PAUL SWEETNAM

WEST HAVEN, Connecticut: For scientists at the Bayer Research Center, drug discovery is a two-stage process. Teams involved in the early stage aim to hand off compounds to therapeutic groups that focus on cancer, diabetes, obesity, and osteoporosis — the four diseases in which the Center specializes. "We have a gene-to-screen program," explains Paul Sweetnam, vice president of research technologies. "Our goal is to bring bioinformatics, genomics, proteomics, and technologies such as high-throughput screening away from the therapeutic areas. Our job is to find targets, validate them, develop assays, run screens, and support them. We're taking a big chunk of the early pipeline and trying to free our therapeutics areas to work closely on pursuing the discoveries in their particular disease areas."

The Center is undergoing rapid expansion in both infrastructure and employment. A chemistry facility under construction will house more than 100 employees. And a high-technology center will host another 65 scientists, including about a quarter of Sweetnam's group. "At the center, we will focus on new technologies that can speed and aid the process of drug discovery," he explains.

Sweetnam's team covers a wide range of disciplines. "We're building up our proteomics capabilities for target validation and lead optimization," he says. "We're looking at array technologies for the same purpose. We also have a group that's looking into how functional genomics technologies can play a role in the drug discovery process."

Over the past year, the group has expanded from 42 individuals to 105. "We're planning on expanding it over the course of the next year, to max out at about 120," says Sweetnam. "We're looking for people with strong molecular biology skills who know how to make better expression vectors and cell constructs and are familiar with such advanced technologies as expression profiling. We're also looking for protein bioscientists who know how to purify proteins. And we want people with very strong qualifications in enzymology and good basic biochemists."

Like other companies, Bayer favors life scientists with good people skills. "No science stands by itself in this industry," says Sweetnam. "You need the willingness to interact with people in different disciplines. We also need the urgency and entrepreneurial flavor that the biotechnology industry has. I don't want my scientists to go home at night and shut off the work. I want them to enjoy the science."

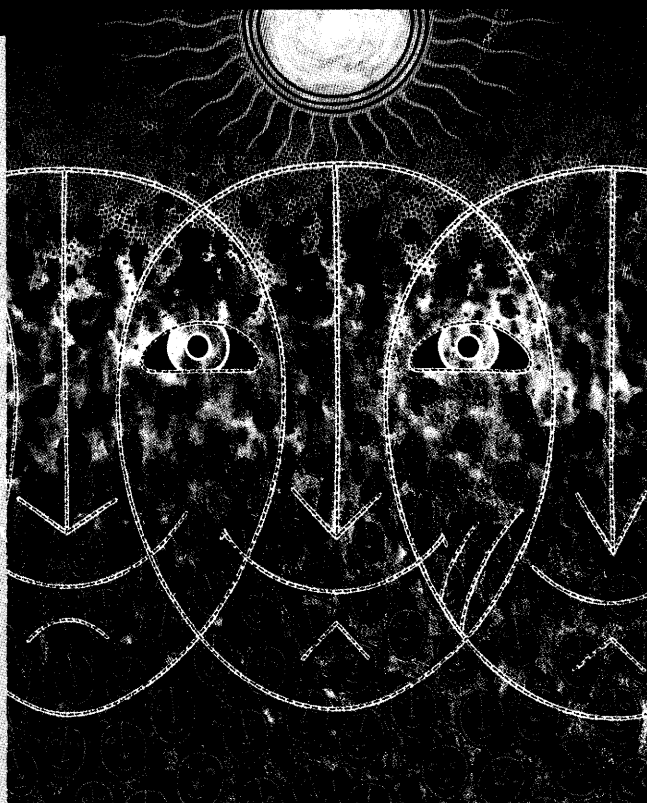


JOYCE BOADT

INDIANAPOLIS, Indiana: The scientific team working with Joyce Boadt, laboratory manager for lead optimization in biology at Eli Lilly and Company, takes up the drug discovery process once high-throughput screening ends. The department's primary goal is to turn screening hits into viable drug candidates. "We do a lot of screening, mainly medium throughput," she

CONTINUED ➞

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We are expanding in genomic and discovery biology and are looking for individuals who want to join our team-oriented, results-driven, "can do" culture. We currently have the following opportunities available in SAN DIEGO, CA:

GROUP LEADER GENE EXPRESSION

The ideal candidate will lead a team of scientists in the area of screen development for molecular targets that regulate gene expression. Requires a Ph.D. with 5+ years post-doctoral experience, and a minimum of 2 years working in the biotechnology or pharmaceutical industry. Must have strong working knowledge of molecular and cellular biology. Research background in regulation of transcription/gene expression required as is experience supervising a laboratory group or a scientific program.

SCIENTIST GENE EXPRESSION

The successful candidate will plan, execute, and analyze/communicate bench research in discovery biology. Work will involve using molecular and cellular methods to conduct target validation studies and to generate cell based assays for drug screening. Responsibilities will include work on small molecule discovery as a therapy for genetic diseases. Requires a Ph.D. or equivalent experience, and strong working knowledge of molecular biology, cellular biology and genetics. Familiarity with cloning, gene transfection, cell culture and expression analysis using reporter genes. Experience with BAC/PAC cloning a plus.

SCIENTIST ION CHANNELS

The successful candidate will be involved in creating innovative high-throughput assays and new technology for ion channel drug discovery. Responsibilities will include cell-based assay development projects involving challenging drug targets. In addition, selected candidate will co-develop technologies in a multi-disciplinary environment that will enable the discovery of new information about ion channel/compound interactions. Requires a Ph.D. or equivalent experience in an appropriate scientific area and expertise in at least 2 of the following areas: cell culture, molecular biology, ion transport biology, optical detection methods, molecular probes, genomics, electrophysiology, automation and high-throughput screening. Also requires excellent communication skills.

SCREENING SCIENTIST

The successful candidate will be responsible for industrializing our methods of cell production for ultra-high throughput screens. The candidate will work with automated instrumentation and informatics teams to develop novel processes to handle and track Aurora's biosensor cell lines. Additional responsibilities will include database management and supporting screening efforts. Requires a Ph.D. or equivalent experience with 1-3 or more years of post-doctoral level experience including training in cell biology, genetics or immunology. Familiarity with signal transduction, automated cell culture experience, excellent communication skills, outstanding teaming skills, and customer orientation are required.

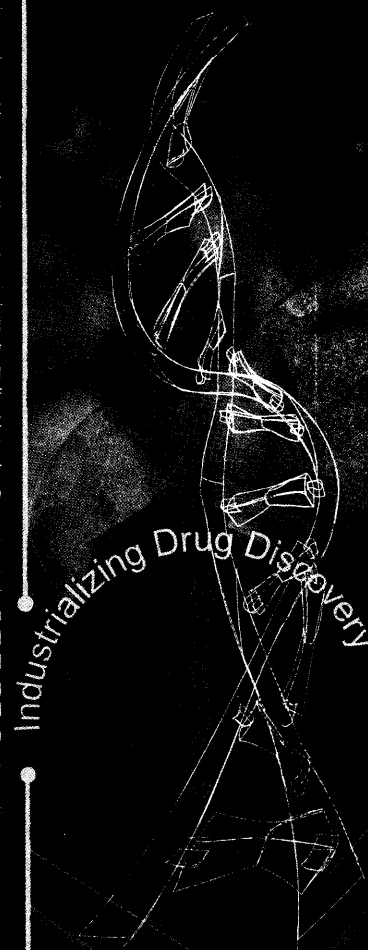
AUTOMATION SCIENTIST

The ideal candidate will be responsible for integration, implementation and overseeing the operation of automated screening systems using functional assays for biomolecular targets. Incumbent will be responsible for improvements related to assay throughput and functionality. Will interface between assay scientists developing screens and informatics scientist interpreting results. Requires a MS or equivalent experience, strong background in engineering and/or biological science, mechanical aptitude and the ability to troubleshoot at the hands-on level, familiarity with programming languages related to robotic controls (Visual Basic and C). Must also understand the screening process including, execution and analysis.

SCREENING INFORMATICS

The ideal candidate will be responsible for implementing, maintaining, and managing information technology related to ultra-high throughput screening. Incumbent will develop and maintain systems to ensure integrity and efficient deployment of methods to collect, track and interpret data generated by the discovery operations group and will be responsible for providing links to our genomics and chemistry database. Requires a Ph.D. or equivalent experience, expertise with Oracle based systems, and fluent in biology or chemistry.

Aurora Biosciences Corporation is industrializing drug discovery through its proven proprietary high technology and biotechnology. We have placed technologies, assays and discovery systems with the world's leading pharmaceutical companies to assist them in developing the next generation of drugs. Aurora combines discovery services, intellectual property licenses, and world-class science to serve a large rapidly growing drug discovery market. Aurora has attracted a superior customer list including American Home Products, Bristol-Myers Squibb Company, Eli Lilly & Co., GlaxoWellcome, Merck & Co., Inc., Pfizer, Inc., and Warner-Lambert, along with leading biotechnology companies and research foundations.



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"[Scientists] should try to get some industrial experience as early in their academic careers as possible to see if they like the atmosphere..." says Joyce Boadt.

says. "We're pan-therapeutically focused. We provide support for all our therapeutics efforts. The department is really organized around different scientific platforms, such as G-coupled protein receptors or kinases, rather than any one disease."

To carry out those tasks, Boadt has a wish list that contains life scientists with a variety of technical backgrounds. "We have a great need for chemists at all levels," she says. "We also want biologists at all levels." Once hired, those scientists will undergo extra training. "There aren't a lot of scientists who have been trained in quantitative biology," says Boadt. "To build a workforce to do screening, you have to train them or rely on people who have had training in other companies."

Statistics and information technology play key roles in the group's work. "We recruit statisticians, bioinformaticians, and people to provide IT support," says Boadt. "It's beneficial if people we use to provide IT support have some understanding of life science. Some of the IT support people in my department started out with degrees in life science before moving to IT. They're very valuable to us because they understand the science behind what we want to do." Statisticians, by contrast, tend to have training purely in their own subject. "They work well with us to understand what we're doing. Having a different viewpoint has been really helpful on some occasions," says Boadt.

"In terms of nonscientific qualifications," she adds, "communications skills and teamwork are absolutely vital for us. My department is kind of unique for Lilly in that we have shared facilities, such as open laboratories. Scientists do not have their own labs or equipment, and they work in teams on their projects. We also look for flexibility. Projects remain in our department until a designated milestone is met. Scientists aren't going to work on a project for years. They have to learn to let go of projects."

What advice does Boadt have for life scientists who want to move into drug discovery? "They should try to get some industrial experience as early in their academic careers as possible to see if they like the atmosphere and where they want to pursue their careers," she suggests.



NIGEL BEELEY

SAN DIEGO, California: "We focus on orphan G-protein receptors. Within the family of about 2,000 G-protein coupled receptors, around 100 are classified as being known; the rest are orphans," says Nigel Beeley, vice president and chief chemical officer for Arena Pharmaceuticals. "Those 100 have provided about 25 percent of the world's top pharmaceutical products. We've found ways to screen for drugs at the orphan receptors without knowing anything about the ligand-receptor pair." In the process, the three-year-old company has grown from four employees to 77.

Arena plans to continue that growth and to do so across a range of academic disciplines. "We've hired people across the board, including molecular biologists, cell biologists, chemists, and physiologists," says Beeley. "We are continuing to hire across the board. We need experienced scientists, scientists at the Ph.D. and

postdoc levels, and also people with B.S. and M.S. degrees."

Intriguingly, the company has found it easier to hire good Ph.D. recruits than those with B.S./M.S. qualifications. In addition, says Beeley, "finding chemists is very competitive here in San Diego, as we have a lot of large, big-name pharmaceutical companies coming to town and expanding their operations. It's a little less so in the biological sciences because many local research institutes have biologists."

To attract top-notch recruits, Arena offers stock options and "an industry-best benefits package," in Beeley's words. "We like people with excellent scientific credentials who can be part of a team," he adds. "We look for scientists who can think quickly on their feet and who have some entrepreneurial characteristics." The company also expects its scientists to be ready for the hard work usually associated with small companies. Says Beeley: "We don't want people looking for an easy corporate life."



NORTON PEET

BRIDGEWATER, New Jersey: Created by the recent merger of drug companies Hoechst Marion Roussel and Rhône Poulenc Rorer, Aventis has three pharmaceutical research centers — in France, Germany, and the United States. All contain a critical mass of scientists, but all are undergoing changes as the merger is completed. "We're still pulling people together in the process of forming the new company," says Norton Peet, head of medicinal chemistry at the U.S. research center. "We'll have vacancies once the scientists from both companies have accepted or rejected our offers. By mid year, we'll be hiring new people."

Genomics forms a major focus of all three Aventis centers. "We are expanding our efforts in both genomics and proteomics," explains Peet. "Both are important areas in the study of pharmacogenomics, a science that assesses the impact of genetic variation on the efficacy and toxicity of drugs. We will need more genomics experts, for example, for classifying patient populations."

Once hiring starts, the research center will seek life scientists at all levels, from individuals with Bachelor's degrees to scientists with industrial experience. In particular, says Peet, "we need entry-level scientists because they reflect new training. We rely on the academic world to train our future scientists." The company has a particular need for genomics specialists who can identify single nucleotide polymorphisms, determine whether they alter amino acid sequences, and assess their effects on biological function or phenotype and drug response. "We look for people who are creative and innovative and who can think out of the box," adds Peet. "We want scientists at the edge of their training who are able to learn new disciplines." ■■■

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Required: The successful candidate will have a Ph.D. or equivalent in molecular biology with strong scientific and managerial skills. At least 10 years of experience in the industry with demonstrated outstanding productivity. Flexibility, excellent communication skills and strong computer skills are also required.

Director of Bioinformatics

Responsibilities: This is a high-profile position of operational management for the Bioinformatics department focusing on computational biology, proteomic data analysis and software development. Responsibilities will include supervising the designing and evaluation of new algorithms and software, implementing new computational tools and database mining. Will work closely with wet-bench scientists in supervising the analysis of both public domain and in-house protein / DNA sequences. Will also oversee the design and construction of a bioinformatics database and bioinformatics software. Will work closely, as the point-of-contact, with external bioinformatics software vendors and partners executing joint product development projects. Will represent AxCel in technical discussions with customers and at industry conferences.

Required: This is a management position involving constant interaction with Ph.D. level scientists, software developers, and business and professional contacts. The candidate should possess a Ph.D. degree in the biological sciences, computer science, or computational field with 5-10 years management experience in an industrial or commercial environment, preferably in the biotech industry. The candidate will have demonstrated time, project and people management proficiency and possess excellent interpersonal skills with scientists from diverse scientific backgrounds.

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All positions are located in the Washington DC metropolitan area.

Salary Range: \$35,310 - \$79,155 per annum.

How to Apply: Candidates may submit one of the following: an Application for Federal Employment (SF-171), an Optional Application for Federal Employment (OF 612), resume, curriculum vitae, or any other written format. Applications must identify one of the following vacancy announcements: Physical Scientist (Environmental Scientist) (FDA-0-0151), Chemist (FDA-7-0907), Biologist (FDA-7-0905), Consumer Safety Officer (FDA-7-0904), Toxicologist (FDA-0-0160). Copies of these announcements may be obtained by calling (301) 827-4070 or (301) 827-4085 or by visiting the Office of Personnel Management's website at www.Usajobs.opm.gov/a9fda.htm. Send applications to:

**Food and Drug Administration
Office of Human Resources and Management Services
Room 7B-44, Parklawn Building
5600 Fishers Lane
Rockville, MD 20857
Attn: Ms. Denise Harris**

VICE PRESIDENT FOR RESEARCH

OHSU

Oregon Health Sciences University invites applications for the position of **Vice President for Research**.

We seek an outstanding scholar with significant leadership experience who is excited by the prospect of contributing to the continued development of a major academic health center where annual research expenditures currently exceed \$140 million. OHSU's schools of Medicine, Dentistry and Nursing are home to 2,700 students and 9,700 faculty and staff. The Vice President for Research will provide leadership to the formulation and implementation of a strategic plan for research development and to the continued evolution and improvement of a research infrastructure with an operating budget that currently exceeds \$5 million. A vision for the future of basic and clinical research, the ability to promote major interdisciplinary research initiatives and outstanding interpersonal skills will be essential attributes.

A detailed job description is available upon request. Inquiries, nominations or applications including a curriculum vitae and a description of leadership experience should be directed to **David C. Dawson, Ph.D., Chair VP Research Committee, c/o Melinda Russo, OHSU Mail Code L106, 3181 Sam Jackson Park Road, Portland, OR 97201-3098. Email inquiries may be directed to dawsonda@ohsu.edu**

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www.ohsu.edu

From Patients to Genes... From Genes To Drugs

Xenon BioResearch is an exciting new genomics company located in beautiful Vancouver, Canada. Xenon specializes in the identification of novel therapeutic targets for common diseases utilizing human genetics and functional genomics.

Employment opportunities are available at the Director, Group Leader, Research Scientist, and Research Associate levels.

Xenon has an international network of collaborations and is assembling a team of world-class scientists to participate in internal research programs. Xenon is growing rapidly and has exciting and challenging opportunities for scientists with expertise in *biochemistry, genetics, cell and molecular biology, animal models, preclinical research, and bioinformatics*. We are looking for individuals who want to be part of a dynamic and innovative team that will leverage genomics and bioinformatics to expedite the drug discovery process.

To find out how you can become part of our team, visit us on-line at www.xenonbioresearch.com. Qualified individuals should forward a letter of interest and CV, in strictest confidence, to: **Director of Research Operations, Xenon BioResearch Inc., 100-2386 East Mall, Vancouver, BC, Canada V6T 1Z3. Fax: 604-221-8423 or E-mail: admin@xenonbioresearch.com.**



"The Clinical Genomics Company"



**Faculty Position
Department of Biochemistry and
Molecular Biology
Medical College of Ohio**

Applications are invited for a tenure-track faculty position at the Assistant Professor level. This appointment is part of a continuing expansion of the department. Candidates working in all areas of biochemistry, molecular biology or cell biology will be considered. Applications are particularly encouraged from individuals using molecular and genetic approaches to study cell growth or differentiation, regulation of gene expression, protein structure/function, mechanisms of signal transduction, control of the cell cycle and apoptosis. Excellent research facilities and start-up funds are available. Requirements include a Ph.D. or M.D. with postdoctoral experience and demonstrated research accomplishments. The successful candidate will be expected to establish a vigorous externally funded research program and participate in the teaching of medical and graduate students. Applicants should submit a curriculum vitae, description of research plans, selected publications, and names and addresses of three references to:

William A. Maltese, Ph.D.
**Chairman, Department of Biochemistry
and Molecular Biology
Medical College of Ohio
3035 Arlington Ave.
Toledo, OH 43614-5804**

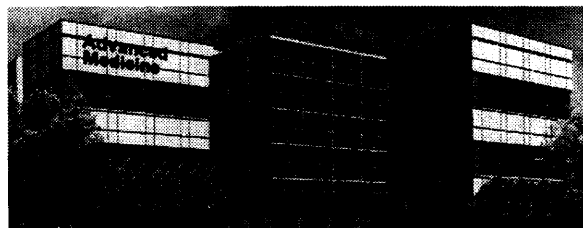
EO/AA employer, M/F/D/V



**Research and Development
Director**

A world leader in expression and purification of recombinant proteins in plants invites applicants for full-time positions. All candidates should be highly motivated, possess excellent communication skills, and desire to work in a high performance environment with multidisciplinary teams. All candidates will need to have excellent skills in project management and in interactions with people.

The successful candidate will manage the activities of ProdiGene's research, greenhouse, and lab support groups. Key responsibilities include coordination of research activities with business units such as production and processing. This position requires a Ph.D. or equivalent in plant biology or related fields, demonstrated success in a research program, plus at least five years experience directing activities of a multidisciplinary group, and superb communication skills. ProdiGene offers competitive salaries and a dynamic work environment. For consideration, please submit a resume and the names of three professional references to: **Human Resources Department, June Elliott-Hardy, ProdiGene, 101 Gateway Boulevard, Suite 100, College Station, TX 77845, Fax: 409/690-9527**



Advanced Medicine, Inc. is a pharmaceutical company dedicated to the discovery of novel therapeutic agents. The company is led by experienced management and advisors from the top ranks of the health care, business, and academic communities. We are expanding our research and development efforts to our new campus in South San Francisco. As a component of this growth, we have an unparalleled opportunity for several experienced, highly motivated professionals to join our expanding multi-disciplinary R&D team.

Scientist/Research Scientist, PK/Metabolism

You will develop/perform in vitro metabolism studies and permeation/transport assays. Candidates must possess a Ph.D. in Pharmaceutical Chemistry, Biochemistry, Pharmacology or Analytical Chemistry; familiarity with HPLC and LC/MS; demonstrated experience conducting in vitro metabolism studies using purified enzymes, microsomes, hepatocytes and plasma; and a strong publishing record. A solid understanding of membrane transporters is desirable. (Job Code: 99-105-S)

Research Assistant/Associate, Pharmaceutical R&D

Serving as a Preformulation Chemist, you will evaluate the physical and chemical properties of new drug candidates relevant to formulation development, (i.e. crystallinity, solid state and solution stability, and solubility in pharmaceutically acceptable vehicles). You will also provide extensive formulation support for basic research in vivo studies. Candidates must possess an MS in organic chemistry with at least 1 year of experience, OR a BS with at least 3 years of preformulation experience. The position requires a solid understanding of the fundamentals of physical-organic chemistry and pharmaceuticals. (Job Code: 00-149-S)

**Research Associate/
Senior Research Associate, Safety**

You will prepare/write detailed study protocols, conduct studies (administer compounds, record observations, perform necropsy examinations), and prepare data tables/report summaries. Candidates must possess a BS or equivalent; at least 2 years of toxicology testing experience in a GLP environment; and the ability to master new experimental techniques, generate reliable and consistent results, and maintain concise, accurate, and timely records. (Job Code: 99-129-S)

Research Assistant/Associate, Pharmacology

You will design and execute quantitative in vivo pharmacological studies, perform data analysis, maintain copious records of experimental data, and present research findings at staff/departamental meetings. Candidates must possess a BS or equivalent, at least 1 year of relevant experience (biotech industry preferred), and prior experience handling lab animals. Familiarity with basic surgical techniques is preferred. (Job Code: 99-107-S)

**Research Associate/
Senior Research Associate, Pharmacokinetics**

You will perform in-house preclinical pharmacokinetic safety and ADME studies. Qualified candidates will possess working knowledge of animal handling and surgical techniques; the ability to independently manage studies; and excellent record keeping skills. AALAS and/or RVT certification a plus. (Job Code: 99-104-S)

All positions call for excellent organizational and written/verbal communication skills. AMI offers highly competitive salaries and benefits along with significant equity participation. Furthermore we will involve you in a scientifically challenging and rewarding environment with a strong commitment to providing a pathway for personal and professional growth. Please forward your resume and cover letter to:

Advanced Medicine, Inc.

HR Department

Attn: (Job Code: ____)

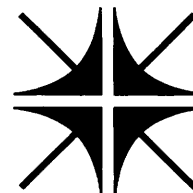
901 Gateway Blvd

South San Francisco, CA 94080

FAX: (650) 827-8690

email: career@advmedicine.com

EOE



Advanced Medicine, Inc.

www.advmedicine.com



MAYO CLINIC

POSTDOCTORAL RESEARCH; SIGNAL TRANSDUCTION TRANSPLANTATION BIOLOGY RESEARCH PROGRAM

A position is available beginning immediately for a postdoctoral research fellow to work with Dr. Karen E. Hedin of the Transplantation Research Program, in the Departments of Surgery and Immunology, at the Mayo Clinic in Rochester, Minnesota.

Research will focus on characterizing the molecular mechanisms and biological impact of chemokine signal transduction in T lymphocytes and endothelial cells, and on understanding how these signaling pathways regulate important biological processes, including lymphocyte immune activation, cytokine gene expression, endothelial cell activation, tumor formation, and the rejection of transplanted organs.

Applicants must have a Ph.D. and/or M.D. and experience using molecular biological and/or biochemical laboratory techniques. A background in signal transduction or immunology would be helpful. The ideal applicant will be excited about doing cutting-edge basic science research within an interactive group of basic and clinical scientists that are focused on developing practical approaches to xenotransplantation. For more information, visit the website of Dr. Hedin at: http://www.mayo.edu/research/people/3/31804_hedin/ and the website of the Mayo Transplantation Biology Research Program at: http://www.mayo.edu/research/transplantation_biology/resources/. To apply, please send a letter of application and curriculum vitae to:

Karen E. Hedin, Ph.D.
Mayo Clinic
Transplantation Research
Medical Sciences Building, 2nd Floor
Rochester, MN 55905

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

Infinite

Possibilities

Affymax is an innovative company dedicated to the development of new technologies to revolutionize the process of drug discovery.

Staff Scientist

Develop novel cell-based assay systems for high-throughput screens using various technologies such as fluorescent imaging. Work on generic assays for ion channels and other cell surface receptors. Collaborate with engineers and biologists to adapt novel fluorescent or luminescent probes and imaging systems to high-throughput screening assays. Requires a B.S./M.S. in Biology or a related field with 3+ years' experience in an industrial or academic lab. Experience in whole-cell assay development for ion channels and/or cell surface receptors required. **Job Code: LMA004**

We offer excellent compensation and benefits.

affymax

Please send your resume via e-mail: arl_jobs@affymax.com or fax: 408-481-0393. EOE



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WWW.AFFYMAX.COM

RESEARCH

The age of OSIRIS

When the pathway to regeneration is fully discovered, the course of injury and aging will be forever altered. Millions will realize a healthier future.

**Cartilage Research • Osteoporosis • Immunology
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At Osiris, a select group of top associates and scientists are exploring therapeutic treatments that have never before been available in regenerative tissue therapy. Using proprietary Mesenchymal Stem Cell (MSC) technology, Osiris is now expanding its research programs and moving products into clinical development. Excellent opportunities are available in the areas of cartilage research, osteoporosis, immunology, gene delivery, stem cell biology, bone research, process development and quality assurance.

Candidates must have a Ph.D., MS, or BS in the biological or chemical sciences or engineering and exp. in cell biology, cellular immunology, cell isolation, cell culture, biochemistry, molecular biology and/or biopharmaceutical research. Industry experience is a plus. Excellent organizational, written and verbal communication skills are required.

Qualified candidates should forward their resume indicating position #GE-01-00 to: Osiris Therapeutics, Inc., Attn: Human Resources, 2001 Aliceanna Street, Baltimore, MD 21231-3043. Fax: (603) 925-1221. E-mail: HR@osiristx.com.



www.osiristx.com

Molecular Biology Scientist - Bioprocessing

Valentis, Inc. is a progressive, publicly held biotech company focused on developing biologics for the treatment of human disease. We currently have an excellent opportunity at our Burlingame facility for a highly motivated researcher to join our multi-disciplinary team. As a member of the Bioprocessing group, you will principally be responsible for developing and implementing analytical techniques, constructing plasmid vectors and improving bacterial production strains via genetic approaches. Good communication skills and the ability to work both independently and cooperatively with colleagues are essential. Candidates must possess a Ph.D. in a biologically related science, 2+ years relevant research experience and a solid understanding of molecular biology with emphasis on standard cloning techniques. Post doctoral experience preferred. Experience with E. coli genetics and/or quantitative PCR would be a distinct advantage.

We offer highly competitive compensation & benefits and an excellent opportunity for career growth. Qualified candidates can submit resumes (email preferred), indicating the job code, to:



VALENTIS, Inc.

Valentis, Inc.
Human Resources
Attn: Job Code BC/BA/BB
863A Mitten Road
Burlingame, CA 94010
FAX (650) 652-1990
Email: jobs@valentis.com

www.valentis.com

POSTDOCTORAL FELLOWSHIPS

DNAX Research Institute, located near Stanford University, carries out exciting research in Immunology, Cancer Biology and Genomics in an open, academic environment. Our mission is to discover and understand the biology of novel therapeutic targets. The Postdoctoral Fellowship Program is an important feature of the research program at DNAX, representing approximately 25 percent of the Institute's scientists. Fellows who come to DNAX are entirely supported by the Institute. We currently have openings with the following scientists and departments:

Dr. Ronald Herbst, Cell Signaling Department—studies the role of protein kinases and phosphatases in cell transformation. Dr. Herbst's areas of interest include the MMAC1/PTEN tumor suppressor gene encoded phosphatase, and the function of AKT kinases in cell survival.

Dr. David Parry, Cell Signaling Department—studies tumor suppressor proteins and their role in cell cycle regulation. Dr. Parry's areas of interest include the ARF/INK4A tumor suppressor locus and the D-cyclin/p16/pRB pathway.

Dr. Fernando Bazan, Molecular Biology Department—uses computational biology, molecular biology and genetic approaches to identify novel soluble protein ligands and cell surface receptors. This group contributes strongly to DNAX's receptor-ligand matching and other Functional Genomics programs.

Dr. Robert Kastelein, Molecular Biology Department—uses molecular biology and biochemical approaches to uncover novel receptor-ligand interactions as part of DNAX's interactive Functional Genomics program.

Candidates should have a strong commitment to work in a competitive and dynamic research environment. Qualified applicants should mail *curriculum vitae*, a statement of research interest, and the names of three references to: DNAX Research Institute, Human Resources Dept., 901 California Avenue, Palo Alto, CA 94304. Or fax to (650) 858-7520. DNAX is an equal opportunity employer, m/f/h/v.

DNAX



UNIVERSITY OF CALIFORNIA
Merced

Dean of Engineering University of California, Merced

The University of California is creating a dynamic new university campus and campus community in Merced, California. Located at the gateway to Yosemite National Park, this tenth campus of the University of California system is the first new UC campus initiated in over 30 years. Established with the support of The Regents of the University of California, the Governor of California and the State Legislature, UC Merced is the only UC campus located in the San Joaquin Valley of California. In keeping with the mission of the University to provide teaching, research and public service of the highest quality, UC Merced will be providing new educational opportunities not only for residents of the San Joaquin Valley, but for all citizens at the undergraduate, master's and doctoral levels. These programs will utilize advanced technology-based learning strategies and will encourage interdisciplinary research based on strong disciplinary programs. The campus is establishing an innovative learning environment through affiliations with partners in higher education, with research laboratories such as those at Lawrence Livermore, with the National Park Service and with industry. The main campus is the focus of a planned community on 10,000 acres of land rising from the valley to the Sierra Nevada foothills. UC Merced will open with an initial enrollment of 1,000 students in 2004. The fully developed campus is planned for 25,000 FTE students. See the UC Merced Web site for more information at: <http://www.ucmerced.edu>.

Responsibilities: The Dean of Engineering reports to the Executive Vice Chancellor and Provost. In addition to this position, searches have commenced for the Dean of Natural Sciences, and the Dean of Social Sciences, Humanities and Arts. The Dean of Engineering works with the Executive Vice Chancellor and Provost, the Dean of Natural Sciences and the Dean of Social Sciences, Humanities and Arts to continue academic plan development and faculty recruitment at UC Merced.

Qualifications: This position requires a strong scholarly background, academic administrative experience in a research university environment at the level of department chair or higher, and the energy and vision to plan and initiate a new general campus in the traditions of excellence exemplified by the University of California. The founding Dean of Engineering at UC Merced has a unique opportunity to create an academic and research program that reflects future areas as well as traditional practice in this field.

Salary will be established relative to the experience and qualifications of the candidate.

To Apply: Applicants should submit their curriculum vitae, a letter of intent and a list of references electronically (preferred) to the following e-mail address: dean.engineering@ucmerced.edu, or to: Chancellor Carol Tomlinson-Keasey, University of California, Merced, c/o: KPMG Consulting, Attention: Danalee Lavelle-Burroughs, 400 Capitol Mall, Suite 800, Sacramento, CA. 95814. Nominations are also being accepted, and nominating letters should be submitted to the same e-mail or mailing address noted above.

Review of applications and nominations will begin immediately, and the search will remain open until the position is filled. The appointment is expected to commence no later than July 1, 2001.

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

fellowships

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

AAAS Science + Technology Policy Fellowships 2001:02 >>>

What >>> Help shape science and technology policy in Washington, DC: Contribute scientific and technical information and external perspectives to federal decisionmaking, while learning how government works. The AAAS fellowship programs provide a unique participatory public policy experience for scientists and engineers, through one-year assignments involving domestic and international science policy issues in the Congress and several executive branch agencies. Stipends typically begin at \$50,000.

Who >>> Applicants must have a Ph.D. or equivalent doctoral level degree at the time of application in any physical, biological or social science, any field of engineering, or any relevant interdisciplinary field. Engineers with a master's degree and three years of post-degree experience also may apply. U.S. citizenship is required. Federal employees are not eligible. Approximately 50 fellowships are awarded each year, in eight different programs.

When >>> The fellowship year begins September 1, 2001. Fellows attend a two-week orientation before beginning their assignments, and participate in a yearlong seminar series on topics relevant to science, technology, and public policy. **Application deadline is January 10, 2001.**

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

Why >>> AAAS sponsors these programs to provide the opportunity for accomplished and societally aware scientists and engineers to participate in and contribute to the public policymaking process of the federal government. The programs include:

- | | | |
|--|---|--|
| + Congressional Science and Engineering Fellowship Program | + Science, Engineering, and Diplomacy Fellowship Program | + Technology Policy Science and Engineering Fellowship Program |
| + Roger Revelle Fellowship in Global Stewardship | + Risk Policy Science and Engineering Fellowship Program | + Environmental Science and Engineering Fellowship Program |
| | + Defense Policy Science and Engineering Fellowship Program | + AAAS/NSF Science and Engineering Fellowship Program |

How >>> For application instructions and further information: fellowships.aaas.org. AAAS Public Policy Fellowship Programs, 1200 New York Avenue, NW, Washington, DC 20005 • Phone 202/326-6700 • E-mail science_policy@aaas.org. Underrepresented minorities and persons with disabilities are encouraged to apply.

fellowships.aaas.org



Emerging as a Leader in Biotechnology



With over ten years of experience in cutting-edge research in plant and microbial genetic manipulation and the recent alliance with Mycogen Corporation, our biotechnology program is poised for substantial growth. Dow AgroSciences' unique research effort offers that hard-to-find balance of entrepreneurial opportunity and long-term stability. It's a powerful combination that attracts innovative and ambitious research professionals to our state-of-the-art labs and research campuses in Indianapolis and San Diego.

Because we believe in the importance of moving forward to meet the needs of a growing world population, we have made a substantial investment in biotechnology. By researching, developing, and marketing genetically enhanced crops, we will take a leading role in shaping the future of global agriculture. If you would like to share in this exciting endeavor, consider joining us in one of the following unique career opportunities in either Indianapolis or San Diego:

Positions in Input Agriculture Gene Discovery:

Protein Biochemist

This Ph.D. level scientist will support discovery, engineering and development of proteins for agricultural input traits. They will provide expertise in protein purification, protein scale-up from expression systems, mechanism of action studies and engineering for specific new functionalities. The

successful candidate will work in and lead cross-functional teams to advance proteins within the development process. **Department Code: Biochem-0010. Location: San Diego**

Molecular Biologist

Ph.D. level scientist needed to support discovery and engineering of genes for agricultural input traits. The successful candidate will provide advanced expertise in gene identification and heterologous expression in plant and microbial systems. Responsibilities will include construction of Agrobacterium and direct plant transformation vectors. The job scope will also include development and implementation of novel approaches for accelerated gene discovery and isolation, as well as trait improvement through genetic engineering. This scientist will work with cross-functional teams to produce and evaluate product candidates for advancement in the trait development process. **Department Code: Molbio-0020. Location: San Diego**

Positions in Genomics Department:

Bioinformatics Technical Leader

Ph.D. (or equivalent) in Molecular Biology, Biochemistry with 2-5 years of expertise in Genomics and information management. Expertise with DNA and protein sequence databases and the common tools for analyzing and mining sequence and expression data, programming skills (C, C++, Perl, VB, Java), database management systems (Unix/Oracle environment) is essential. Experience with structured design in a production-scale data collection environment is especially useful. **Department Code: Gen-0030. Location: Indianapolis**

Bioinformatics Curator

Ph.D. (or equivalent) in Computer Science, Molecular Biology, Bioinformatics, or related field with 2-5 years' experience in developing application interfaces and curating Bioinformatics databases; and visualization of genomic data, structures; programming skills C, C++, Unix, browsers, perl scripts, Java applets, RDBMS (Oracle); Searching public databases using common Bioinformatics tools. Experience with structured design in a production-scale data collection environment is especially useful. **Department Code: Gen-0031. Location: Indianapolis**

Molecular Biology Technical Leader

Ph.D. (or equivalent) in Molecular Biology, Biochemistry or related field with 2-5 years' experience in molecular biology methodologies and genomics particularly making cDNA libraries, mRNA profiling, high throughput screening of libraries and mutants. Experience in Molecular Virology and knowledge of public structural and functional databases are useful. **Department Code: Gen-0032. Location: Indianapolis**

Interested candidates should send a letter of interest, resume, transcripts and references by May 17, 2000. To apply for Indianapolis positions, send to: **Dow AgroSciences LLC, Human Resources Recruiting, (please indicate job code), 8330 Zionsville Road, Indianapolis, IN 46268-1054.** To apply for San Diego positions, send to: **Dow AgroSciences LLC, Human Resources Recruiting, (please indicate job code) 5501 Oberlin Dr., San Diego, CA 92121.**

Dow AgroSciences offers challenging opportunities within a stimulating and diverse work environment. We are an affirmative action/equal opportunity employer.



Phase-1 Molecular Toxicology is a leader in high throughput and molecular toxicology. Our continued growth has created a great opportunity in our new laboratory facility located in Santa Fe, New Mexico for a select group of experienced, self-motivated professionals to join our multidiscipline team. Phase-1 is focused on developing and using molecular assays to predict the toxic impact of compounds and other entities on humans. The primary technology in use today is **gene expression** based on microarrays.

Phase-1 is currently looking for **Research Associates**. As a Research Associate, you would work in R&D or Client Services under the supervision of a Scientist conducting experiments in molecular toxicology. Candidates must be computer literate as these technologies are data intensive. Qualifications must include Master's Degree in Molecular Biology, Biochemistry, or Molecular Toxicology. A working knowledge of gene expression technology is highly desired.

We offer competitive salaries, commensurate with experience. If you are interested in an exciting opportunity to work with a dynamic team, send your resume to:

**Phase-1 Molecular Toxicology
HR Department
2904 Rodeo Road Drive, East
Santa Fe, New Mexico 87505
Fax (505) 471-8205
Email: cbertram@phase1tox.com**

PHASE-1
MOLECULAR TOXICOLOGY

BIOTECHNOLOGY

Located in the San Francisco Bay Area, **Eos Biotechnology, Inc.** is a progressive, privately financed biotech company focused on innovating and applying genomics-based technologies for the development of new immunotherapeutic drugs. We are currently seeking outstanding, highly motivated individuals for our Bioinformatics team to join us in the application of cutting-edge technology and information science on the human genome.

Computational Biologist

Working with a talented group of bioinformatics and genomics scientists, you will help integrate extensive DNA array gene expression databases with genomic sequence information. This position involves development and application of automation scripts and software to manage, integrate, and annotate genomic data. The ideal candidate will possess a Ph.D. or equivalent in Molecular Biology or related field; 2+ years of post-doctoral experience; excellent Perl programming skills; experience developing and in the application of data analysis tools for genomic information; the ability to quickly grasp and clearly explain difficult concepts. (Job Code: 00-36-SCI)

Bioinformatics Programmer

You will work with bioinformatic scientists and programmers to transfer genome analysis information into our integrated genomic and expression database and create web based query/visualization tools; enabling our scientists to effectively interact with the database to accelerate our drug target discovery process. The ideal candidate should possess an M.S. or advanced degree in computer science or in a biology related field, 3-5 years of experience in bioinformatics, proficiency in the programming languages C, Perl, Java is required, experience in Web Development (html, cgi-bin) and with relational and object-oriented databases is a distinct advantage. (Job Code: 00-29-SCI)

We offer attractive compensation and benefits, generous stock options, and the opportunity to join a promising young company. We maintain a highly collaborative work environment that allows for tremendous individual growth and responsibility while working together to discover and create effective, genomics-based immunotherapeutics for human disease. Please send resumes to: **Eos Biotechnology, Inc., HR Department, Attn: Job Code: __, 225A Gateway Blvd., South San Francisco, CA 94080; FAX: (650) 583-3881; email: jobs@eosbiotech.com. EOE**



www.eosbiotech.com



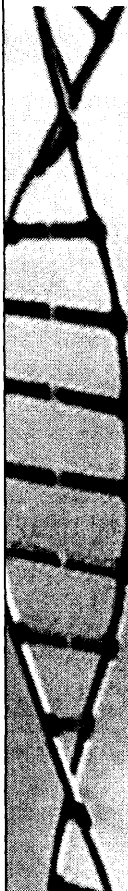
The Institute for Genomic Research (TIGR) is a not-for-profit research institute founded in 1992. The scope of research at TIGR includes structural, functional, and comparative analysis of genomes and gene products in viruses, eubacteria, pathogenic bacteria, archaea, and eukaryotes, both plant and animal, including the mouse, the rat and the human. Additionally, bioinformatics based research projects encompass investigations into genome composition, gene-finding algorithms, sequence assembly and alignment, and modeling of protein structure. TIGR's pioneering approach to genome based analysis produced the first-ever genome sequence of a free living organism in 1995, and TIGR scientists have completed twelve more genomes and chromosomes since then, making it the world's premier center of whole genome sequencing and analysis. TIGR currently has a staff of 230 including 30 faculty. Please visit our web site at <http://www.tigr.org>.

A Post-Doctoral Fellowship is available on an NSF-funded project to study gene expression in *Arabidopsis thaliana*. Qualified candidates will have a PhD in Plant Molecular Biology or a related field or the equivalent and experience with standard molecular biology laboratory techniques. Experience with PERL, SQL, and NT and UNIX operating systems is preferred.

A Post-Doctoral Fellowship is available on a DOE/NSF-funded project aimed at integrating genomic and EST sequence data with mapping and other data to build a database representing eukaryotic genes and their sequences. Qualified candidates will have a PhD in Molecular or Computational Biology, Biophysics, Biochemistry or the equivalent. Experience with c, PERL, SQL, and UNIX operating systems is preferred.

Please send a curriculum vitae with the names, phone numbers, and e-mail addresses of three references to: **The Institute for Genomic Research, Attn: Human Resources/Science, 9712 Medical Center Drive, Rockville, MD 20850.** E-mail: jobs@tigr.org. Text Format Only (.txt). Fax: (301) 838-0208 EOE

Research



Get behind the research that is transforming the drug development process.

As an innovator in genomics and bioinformatics, Gene Logic Inc. is revolutionizing the drug discovery process. With our GeneExpress™ database suite of point-and-click tools for target discovery, predictive toxicology and molecular medicine, we are dramatically reducing the time, cost and risk associated with drug conception and development. And, with global pharmaceutical and life science companies as our clients, we've got some serious market presence. To meet our aggressive business goals, we are actively hiring Research Analysts and Scientific Directors for the following programs:

- Cardiovascular Systems (#00-048)
- Central Nervous Systems (#00-047)
- Oncology (#00-049)
- Toxicology (#00-028)

At Gene Logic, you'll enjoy a comprehensive salary and benefits package with exceptional stock options. Please forward your resume, **indicating job code**, to: Gene Logic Inc., 708 Quince Orchard Rd., Gaithersburg, MD 20878; FAX: (301) 987-1805; e-mail: hr@genelogic.com. EOE

www.genelogic.com

GENE  LOGIC

Postdoctoral Fellowships

The UNC Lineberger Comprehensive Cancer Center of the University of North Carolina at Chapel Hill will have openings in 2000 in its training program, now in its 25th year, for persons completing graduate studies to train with excellent investigators in basic research in tumor virology, molecular carcinogenesis, molecular therapeutics, cancer cell biology, genetics, tumor immunology, and research that interfaces with clinical and physical sciences. Training is available in DNA repair, replication, and mutagenesis; regulation of cellular proliferation and differentiation including growth factors, signal transduction pathways, and intercellular communication; molecular immunology; molecular genetics and epidemiology of cancer; and human disease models and gene therapy. Unique training resources and core facilities are supported by the NCI-designated UNC Lineberger Comprehensive Cancer Center.

Preceptors are: Steven Bachenheimer, Albert Baldwin, Victoria Bautch, David Brenner, Keith Burrig, Sharon Campbell, Stephen Chaney, David Clemmons, Edward Collins, Marila Cordeiro-Stone, Channing Der, Robert Duronio, H. Shelton Earp, Beverly Errede, Jeffrey Frelinger, Frank French, Jack Griffith, Eng-Shang Huang, Clyde Hutchison III, Kenneth Jacobson, Rudolph Juliano, David Kaufman, William Kaufmann, Shannon Kenney, Ryszard Kole, Steven Leadon, David Lee, Patricia Maness, William Marzluff, Beverly Mitchell, Joseph Pagano, Tom Petes, Mark Peifer, Nancy Raab-Traub, James Raleigh, Dale Ramsdeo, R. Jude Samulski, Aziz Sancar, Ronald Swanstrom, Lishan Su, Holden Thorp, Jenny Ting, Ronald Thurman, Michael Topal, Terry Van Dyke, Jean-Michel Vos, Kevin Weeks, Bernard Weissman, Elizabeth Wilson, and Yue Xiong.

Candidates must be U.S. citizens or permanent residents. For an informational brochure or to apply (include curriculum vitae, three letters of recommendation, a statement of research interests, and graduate school records) write to:

Joseph S. Pagano, M.D.
CB# 7295

UNC Lineberger Comprehensive Cancer Center
School of Medicine
University of North Carolina at Chapel Hill
Chapel Hill, NC 27599-7295

UNC's Comprehensive Cancer Center is an Affirmative Action/Equal Opportunity Employer. Minority applicants are encouraged to identify themselves voluntarily.

Postdoctoral Fellowships in Tissue Engineering

The Pittsburgh Tissue Engineering Initiative (PTEI), a non-profit consortium, invites applicants for its innovative two-year postdoctoral fellowship program in Tissue Engineering. Two fellows will be selected this year. They will pursue training in one of seven focus areas: Artificial Organs, Bioimaging, Biomaterials, Bone and Muscle, Gene Therapy, Stem Cell Biology and Transplantation.

The PTEI is a unique consortium of all the major universities in Pittsburgh. It has links to many biotechnology companies in the southwestern Pennsylvania region. Potential training sites for fellows encompass all the programs and laboratories within this network.

Inter-institutional training sites for each focus area will be selected by the fellow and the PTEI program officers on an individualized basis. Each fellow also will learn aspects of intellectual property protection and product commercialization. At the end of the two-year fellowship, many attractive employment opportunities in the expanding biotechnology enterprise in southwestern Pennsylvania should be available.

We encourage both national and international applicants for the two fellowship positions offered this year. We desire applicants who will strongly consider remaining in southwestern Pennsylvania after their fellowship, to contribute to our region's growing tissue engineering enterprise. Persons with Ph.D., M.D., and related advanced degrees are eligible. Proficiency in written and spoken English is required. Starting dates will be between July 1, 2000, and January 1, 2001. A very competitive salary and benefits package will be provided.

For further information and application materials, please contact:
Postdoctoral Fellowship Administrator
Pittsburgh Tissue Engineering Initiative, Inc.
125 Sixth Avenue, Suite 1810 • Pittsburgh, PA 15219
Phone: (412) 395-1200 • Fax: (412) 395-1208
E-mail: SPETERS@ptei.org
PTEI is an equal opportunity employer.



PITTSBURGH TISSUE ENGINEERING INITIATIVE, INC.



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

Administrative Positions:

- Managers
- Administrative Assistants
- Purchasing Coordinators
- Receiving Clerks

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

Ground-breaking Research. Advanced Technology. Dedicated People.

At Axys Pharmaceuticals, our scientific staff employs state-of-the-art biotechnology techniques to develop therapeutic treatments for cancer. If you are committed to quality & excellence, bring your skills & expertise to Axys Pharmaceuticals and play an integral role in our success.

Group Leader, Protein Expression

In this key role, you will direct the activities of a group of 5-7 scientists who are responsible for providing fermentation and protein production support for internal & partnered programs. Candidates must possess a Ph.D. in biochemistry or related field with 2+ years' post-doctoral experience and 5+ years' industry experience in protein purification & characterization (10 -100 mg scale). A proven track record in protein purification & characterization is required, as evidenced by a strong publication/patent bibliography. Must have hands-on experience with multiple chromatographic separation techniques, familiarity with FPLC & HPLC instrumentation, and excellent supervisory & written/verbal communication skills. Experience in protein mass spectrometry a plus. (Job# 00-009-SCI)

Scientist, Target ID & Validation

Working closely with researchers using gene expression methods (microarrays) to discover/validate novel targets in oncology, you will help analyze, organize, and store expression data, as well as help integrate the public databases & tools with the in-house expression and sequence data. Candidates must possess a BS/MS in bioinformatics/computer science or related field; 2-4 years of experience with DNA & protein sequence analysis tools; familiarity with public sequence databases; proficiency with Perl & Java (SQL, MS Access or Oracle databases a plus); and strong analytical & computational skills. (Job# 00-016-SCI)

Scientific Database Admin/Programmer

You will provide RS3 Discovery support, including database administrative issues, end-user training, and Oracle/server maintenance. You will also write programs that interface with RS3 Discovery/OMMM to support the needs of our HTS & Chemistry groups, and generate utilities to facilitate the import, modification, and

export of data. The successful candidate will possess a BSCS or equiv with several years of SQL & Oracle database support experience. Experience with chemistry databases, such as RS3 Discovery or ISIS/Base is essential. Familiarity with MS Access a plus. (Job# 00-021-SCI)

Scientific Programmer, Unix Software Support & Administration

We are currently seeking an experienced programmer to update/maintain commercial and proprietary research hardware/software in an SGI Unix environment, including new software installation (updating FlexLM license files, etc.) & data file management. The successful candidate will also manipulate proprietary code for research purposes, create/operate scripts to facilitate data transfer between applications, and write new code to support molecular modeling & X-ray crystallography research functions. Candidates must possess a BS/MS, experience writing/modifying C code in a Unix environment, and a solid understanding of Python and/or Perl programming languages and the Make utility. Experience with Irix 6.5, shell scripting, and FlexLM licensing is highly desirable. Familiarity with HTML a plus. Exposure to chemistry and/or biology helpful. (Job# 00-022-SCI)

Besides attractive salaries and outstanding benefits, we offer the opportunity to be part of a dynamic environment that fosters professional & personal growth. Please forward your resume/cv to: Axys Pharmaceuticals, HR Department, Attn: (Job#), 180 Kimball Way, South San Francisco, CA 94080; email: human_resources@axyspharm.com. We look forward to hearing from you. Equal Opportunity Employer



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PHARMACEUTICAL

3-Dimensional Pharmaceuticals, Inc. is a drug discovery company which has developed a proprietary technology platform uniquely integrating structure-based drug design, combinatorial chemistry, and high-throughput screening for the cost-effective discovery of novel pharmaceuticals. We are currently seeking motivated individuals with excellent communication skills and outstanding qualifications to join our team in the following areas:

Protein Biochemistry/ Biophysical Chemistry

Ph.D./M.S./B.S. level positions exist for highly motivated individuals who are technically skilled, creative and independent. These individuals will join a multi-disciplinary team working to elucidate the structure and function of G-protein coupled receptors (GPCRs), and to develop novel protein refolding methods for drug discovery, structural biology, and structural genomics. Ideal candidates will have expertise in one or more of the following areas: protein purification; protein biochemistry; spectroscopic characterization of proteins; protein folding; ligand-receptor binding interactions; GPCR function; receptor pharmacology. Preference will be given to those with demonstrated experience in working with membrane proteins.

High-Throughput Drug Screening

Qualified candidates will have a Ph.D./M.S./B.S. degree and experience in a high-throughput screening environment. Understanding of ligand-receptor interactions, fluorescence detection and/or protein folding is desired. Preference will be given to candidates with experience in operating automated liquid handling equipment and familiarity with computer databases. Performance within a drug discovery team is expected.

Located in Exton, PA, 3DP offers a comprehensive compensation and benefits package. Qualified individuals are invited to send their cover letter (indicating position desired) and resume with contact data for three references before June 1, 2000 to:

3-Dimensional Pharmaceuticals, Inc.

Attn: Human Resources
665 Stockton Drive, Suite 104
Exton, PA 19341

No phone calls, please.



**3-Dimensional
Pharmaceuticals, Inc.**

An equal opportunity employer

www.3dp.com

The evolution of the healthcare industry has created a demand for multifaceted individuals capable of communicating scientific and technical material to a wide range of audiences.

Now accepting applications for the position:

SCIENTIFIC COMMUNICATIONS WRITER

We are currently seeking a qualified individual to fill a position as a scientific communications writer within the Strategic Communications Group.

Scientific communications writers are responsible for communicating the findings of clinical and developmental research studies to the medical and scientific community. They write, research, and review articles for publication in peer-reviewed literature and prepare slide and poster presentations for professional meetings. They also write product monographs, professional educational materials, and product backgrounders for use by both the medical community and their colleagues within the pharmaceutical industry.

Scientific communications writers also develop and maintain scientific expertise in targeted therapeutic areas and function as important liaisons between scientific and marketing professionals.

The position requires an advanced degree in biological science or medicine (eg, PhD, PharmD, MD). Excellent written and oral communication skills and the ability to communicate technical material to both technical and nontechnical audiences are also required. The qualified candidate should demonstrate strong planning and organizational skills, high energy, and the ability to take initiative within a team framework.

Allergan is a technology-driven, global healthcare company focused on specialty pharmaceutical products that satisfy unmet medical needs and improve patients' lives. Allergan offers a competitive salary, excellent benefits, and a stimulating working environment.

FOR CONSIDERATION, send your resume, two writing samples demonstrating the breadth of your skills, and a cover letter describing your career objectives to: Amy Lindsay, PhD, Manager, Program Development, Strategic Communications, 575 Anton Blvd, Suite 900, Costa Mesa, CA 92626.

 **ALLERGAN**

Senior Structural Biologist

We are seeking a Senior Structural Biologist with international stature to lead a major new research initiative in structural biology that takes advantage of the X-ray crystallography facilities at BNL's National Synchrotron Light Source. You will develop an independent research program within the BNL Biology Department and have a joint appointment in the Biochemistry and Cell Biology Department at SUNY Stony Brook, participating in developing a new center for Complex Protein Structures. Substantial funds are available for laboratory start-up and research.

BNL is a multidisciplinary laboratory engaged in basic and applied research and is managed by Brookhaven Science Associates under contract with the Department of Energy (DOE). BNL's Biology Department has strong programs in molecular genetics, structural biology, genomics, and biotechnology. Among its resources are state-of-the-art user facilities for X-ray crystallography, UV spectroscopy, and scanning transmission electron microscopy. Biology has a close association with BNL's Medical Department and the Center for Imaging and Neuroscience. The State University has an excellent graduate program in Biochemistry and Cell Biology, as well as in many other areas of life sciences. Further information is available on their respective web sites: www.bnl.gov and www.sunysb.edu.

Applications or Nominations, including letter of interest, CV, and the names/contact information for references should be sent by June 1, 2000 to: Dr. Carl W. Anderson, Chair, Biology Department, Bldg 463, Brookhaven National Laboratory, Upton, NY 11973. BNL welcomes diversity and encourages applications from all qualified individuals.

**BROOKHAVEN
NATIONAL LABORATORY**

www.bnl.gov

Senior Neuroscientist

The Medical Department is seeking a Senior Scientist of international stature to build and lead a major new research initiative in neurosciences/genetics. Structuring an independent research program within Brookhaven's high technology research environment, you will form strong associations with DOE's research community including programs in mouse genetics and genomics. Substantial funds are available for laboratory start-up/research.

BNL is a multidisciplinary laboratory engaged in basic and applied research and is managed by Brookhaven Science Associates under contract with the Department of Energy (DOE). Life Sciences has strong programs in preclinical and clinical neurosciences that use imaging technologies to investigate the effects of drugs and aging in the human brain, in DNA damage detection and repair, genomics, molecular and structural biology, and radioisotope and radiopharmaceutical research. This research takes advantage of the unique facilities at BNL that include imaging capabilities (two human and one rodent PET scanner, 4T MRI, SPECT) the Scanning Transmission Microscope, the Alternating Gradient Synchrotron and the National Synchrotron Light Source (5 beam lines for macromolecular crystallography and the possibility of time-resolved X-ray diffraction). Brookhaven has close ties with nearby SUNY Stony Brook and Cold Spring Harbor Laboratory.

Applications and Nominations, including letter of interest, CV, and the names/contact information for references should be sent by June 1, 2000 to: Dr. Nora D. Volkow, Associate Laboratory Director for Life Sciences, Bldg 490, Brookhaven National Laboratory, Upton, NY 11973. BNL welcomes diversity and encourages applications from all qualified individuals.

**BROOKHAVEN
NATIONAL LABORATORY**

www.bnl.gov

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Lilly is a premier biotechnology company and a world leader in the pharmaceutical industry. Our position and resources allow us to offer remarkable opportunities for equally remarkable professionals who assist upon cutting-edge projects and excitement in their work.

Biopharmaceutics and Drug Delivery

Requires a BS (MS preferred) in Physiology, Pharmaceutical Sciences or related field. Two positions available: one for in vitro and the other for in vivo GI Drug Absorption. Responsibilities include development and application of in vitro and in vivo GI drug absorption models to investigate permeability/bioavailability profile of lead compounds. Successful candidate should have extensive experience in cell culture, use of in vitro and/or in vivo GI absorption models to study permeability and knowledge and experience in HPLC analysis. In addition, extensive experience in animal surgery (mammals and rodents) is required for the in vivo position.

We offer excellent salary and comprehensive benefits. For immediate consideration, please send resume to: Eli Lilly and Company, US Recruiting and Staffing, ADSCMB104, Lilly Corporate Center, DC 1811, Indianapolis, IN 46285.

We are an equal opportunity employer dedicated to diversity and the strength it brings to the workplace. For additional opportunities at Eli Lilly and Company, please access our Job Bank at: www.lilly.com

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Digital Gene Technologies, Inc. combines patented genomics technology with advanced bioinformatics to identify and determine anatomical distribution and expression patterns of the genes contained in any cell or tissue sample.

Senior Program Coordinators

We are seeking doctoral-level biologists with expertise in inflammatory disorders and central nervous system diseases to manage project data for ongoing collaborations at DGT. These individuals will be responsible for data review, evaluation, and reporting to collaborators and will work with senior management to provide project summaries and track progress across multiple scientific teams. Candidates must possess excellent oral and written communication skills and be able to work in a team-oriented environment. The successful candidates will have an M.D. or a Ph.D. in the life sciences and 2-3 years of postdoctoral experience within the disease areas and demonstrated experience with molecular biology.

Compensation will meet your qualifications and includes equity participation in an exciting growth Company. For consideration, please send or fax your resume/CV, letters of reference and salary history to: **DIGITAL GENE TECHNOLOGIES, INC., 11149 North Torrey Pines Road, La Jolla, California 92037**, e-mail: job-info@dgt.com, fax: (858) 552-8625, www.dgt.com, EOE

www.sugen.com

At SUGEN, we foster a creative, energetic and team-oriented atmosphere to develop small molecule anti-cancer drugs using renowned drug discovery techniques. Our continued success has created a great opportunity for motivated scientific professionals to join our expanding R&D team.

Drug Metabolism/ Group Leader

In this pivotal role, you will lead/direct our drug metabolism unit, provide support for our preclinical development programs, and coordinate the preclinical biotransformation function from both in vivo and in vitro perspectives. Specifically, you will develop models for in vitro to in vivo extrapolation and prediction of drug clearance, as well as develop in vitro models of hepatic, biliary, and intestinal clearance. Candidates must possess a Ph.D. in drug metabolism, toxicology, or pharmacology with 7-10 years of experience with in vivo metabolism studies of xenobiotics. The position requires familiarity with the expression and regulation of drug metabolizing enzymes; extensive interaction with other groups at SUGEN, including In Vitro Metabolism, Biotransformation & Mass Spectrometry, Pharmacokinetics, Toxicology, Preclinical Therapeutics, Clinical and Regulatory; the ability to manage contract ADME studies/collaborations within the Pharmacia Corporation; a proven publication record; and excellent written/verbal communication skills. Experience with IND and NDA filings is desired. (Job Code: LA-SCI)

Associate Scientist/ Scientist

Preclinical Pharmacokinetics/ Pharmacodynamics

In this key role, you will provide support for protocol design; conduct/monitor in vivo PK, bioavailability, and bioequivalence studies, as well as PK data analysis/interpretation; and prepare/deliver presentations at project team meetings. You will also prepare scientific reports & documentation to support applications for regulatory agency filings; coordinate with our Drug Discovery, Preclinical Therapeutics, Toxicology, Formulations Research, Clinical, and Regulatory departments on special projects; and manage outside collaborations with other companies & CROs. Candidates must possess a Ph.D. along with 0-4 years of experience with pharmacokinetics, pharmaceuticals, drug metabolism, or equivalent combination of education and experience. The position requires a solid understanding of the physiology of drug absorption, drug metabolism, and pharmacokinetics; proficiency with pharmacokinetic software for data analysis and word processing/spreadsheet/graphing applications; the ability to excel in a fast-paced, deadline driven environment; and excellent problem-solving, organizational and written/verbal communication skills. Familiarity with in vivo and in vitro absorption models, bioanalytical techniques (HPLC/UV, LC/MS/MS), and pharmacokinetic modeling is a plus. (Job Code: JS50377-SCI)

We will reward you with an attractive compensation and benefits package that includes a 1st class pension plan, a generous profit sharing/bonus program, and a collaborative work environment that encourages creativity and achievement. Please forward resumes and cover letters to: **SUGEN, Inc., HR Department, Attn: (Job Code _____), 230 East Grand Avenue, South San Francisco, CA 94080; fax: (650) 553-8301; email: jobs@sugen.com (NO ATTACHMENTS, PLEASE). We also have openings for Scientists, Research Associates, Chemists, and I.T. Engineers. Please see our website for more details.**

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COMPUTER SPECIALIST
Information Technology Branch, DTP, DCTD
National Cancer Institute, National Institutes of Health
GS-334-13: Vacancy Announcement#: NCI-00-2308

The Information Technology Branch (ITB) of the Developmental Therapeutics Program is seeking candidates for the position of Computer Specialist. ITB is responsible for providing computer support for drug discovery efforts in the National Cancer Institute. This includes developing and maintaining software for acquisition of data from various screening programs as well as developing methods for making these data useful in the drug discovery process. ITB is also responsible for making these data and methods available to the research community via the World Wide Web. A Ph.D. in chemistry, computer science, biochemistry, or other related field, is desirable.

The Computer Specialist will be responsible for helping advance the technology being developed within ITB that is focused on improving the way biological and chemical structure data are used in support of drug discovery efforts and delivering this technology to the research community. (See <http://dtp.nci.nih.gov/>).

To apply for this position, please address the following rating criteria: (1) knowledge of computer-aided drug discovery, (2) knowledge of computer programming tools, and (3) ability to create WWW pages. To learn more about other mandatory application requirements please obtain the Vacancy Announcement at <http://careerhere.nih.gov>.

The salary for this position ranges from \$60,890 to \$79,155. Benefits include health and life insurance options, retirement, paid holidays, and vacation leave.

Applications must be postmarked no later than 06/07/00. To be considered applicants must be U.S. citizens.

Research Fellow

Laboratory of Molecular Biology, DIR,
NIDDK, National Institutes of Health

A Research Fellow Position is available to study the mechanism of recombination reactions and other complex DNA reactions by using physico-chemical and optical techniques. Candidates must have a Ph.D. with postdoctoral experience, or equivalent research/technical training. Strong background in optical instrumentation, DNA enzymology, or molecular biochemistry is desirable. The successful candidate will be involved in the development and use of the instruments and methods to study macromolecular interactions using fluorescence labeled proteins and nucleic acids at the single molecule level. Salary is commensurate with experience and qualifications. Send curriculum vitae, publication list and three letters of recommendation to the address below no later than May 31, 2000.

Dr. Kiyoshi Mizuuchi
Section on Genetic Mechanisms
Laboratory of Molecular Biology, NIDDK
National Institutes of Health
Building 5, Room 237
5 Memorial Drive, MSC 0540
Bethesda, MD 20892-0540.
kmizu@helix.nih.gov

Good chemistry makes it possible

CMA's reputation as one the premier trade associations is based on our years of experience, a talented staff, and the ability to deliver results for our members.

CMA (Chemical Manufacturers Association) is the voice of the chemical industry. In January 1999, the chemical industry committed more than \$100M over five years to the Long-Range Research Initiative (LRI). The LRI is designed to extend knowledge worldwide on the health, safety, and environmental effects of the chemical industry's products and processes. It is dedicated to the principles of scientific excellence and open research management processes. We are currently seeking experienced professionals for the following positions:

Director, Exposure Science Research

Direct the research management process for crosscutting exposure issues for human health and wildlife populations; oversee research agendas and policies; coordinate industry and public scientific participation in research activities; and interact with the scientific community and key stakeholders. Qualifications include a Ph.D. or equivalent, with extensive knowledge of exposure science, environmental science, and risk assessment research. **Job Code # 1189**

Director, Health Science Research

Direct the research management process involving health science related issues; provide focal point for integration across all CMA health science research; oversee research agendas and policies; coordinate industry and public scientific participation in research activities; and interact with the scientific community and key stakeholders. Qualifications include a Ph.D. or equivalent, with extensive knowledge of toxicology, cancer, and non-cancer research. **Job Code # 1190**

Sr. Director/Sr. Scientist

Provide scientific, technical, and management expertise to our Long-Range Research Initiative team; manage and direct the development of research opportunities/projects and scientific policy documents; and ensure the integration of research planning and results with other CMA programs. Qualifications include a M.D., Ph.D., or equivalent in a biological or other scientific discipline; 10+ years managing health and environmental research; and extensive knowledge of academic research processes and issues. Strategic planning experience is a plus. **Job Code # 1185**

Director, Communications/Scientific Initiatives

Provide strategic communications counsel and expertise for all media; analyze and communicate scientific research issues; create appropriate strategies by using a wide variety of communication tools and techniques; and implement strategies to successfully communicate complex scientific issues with all key audiences. Qualifications include the minimum of a Bachelor's degree in Scientific Communications or a related field, with extensive knowledge of scientific and technical publications and presentations. Experience in the chemical industry, scientific research, and/or research management is a plus. **Job Code # 1188**

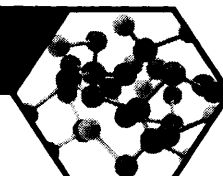
CMA offers comprehensive benefits including flexible hours, tuition reimbursement, pension plan, and a 401(k). For immediate consideration, please send your resume, along with cover letter and salary history, indicating the appropriate Job Code, to:

Attn: CMA/HR/Job Code, 1300 Wilson Blvd., Arlington, VA 22209;
Fax: (703) 741-6083; or E-mail: human-resources@cma.hq.com

CMA is an equal opportunity employer and actively seeks diverse candidates.



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REGENERON PHARMACEUTICALS, INC. is a leader in molecular and cell biology research. We provide top scientists with the resources & tools they need to tackle & cure life-threatening diseases. We seek committed, talented professionals to join our team as we take on new challenges & discover new solutions. Our unprecedented growth has created several exceptional career opportunities.

SCIENTIST

NEURAL & ENDOCRINE BIOLOGY

We are seeking an individual to play a primary role in directing research in molecular mechanisms which regulate normal & pathological angiogenesis in vivo, using the female reproductive tract (ovary, uterus, placenta) as their primary model system.

Qualified candidate will have a PhD & 2-5 years of post-doctoral experience. Working knowledge of reproductive biology is essential; experience with in situ hybridization & immunohistochemical techniques is highly desired. **Job Code: SC/SW2-SCI4/28**

SCIENTIST

MUSCLE MOLECULAR BIOLOGY

Scientist or Post-Doctoral Fellow needed with PhD or MD with experience in Biochemistry & Cell Biology sought to work in our Muscle Group. Previous experience in cell signaling is desired, including those pathways downstream of G-protein coupled receptors. Experience in proteolytic pathways & mechanisms is also helpful. Molecular biology skills are important; some previous experience in muscle systems is desirable, but not required. **Job Code: SC/IDG-SCI4/28**

Regeneron is located in Tarrytown, NY, just 30 minutes north of NYC & 10 minutes from the Tappan Zee Bridge. Our campus is situated in a pleasant, country-like setting. In addition to the beautiful surroundings, Regeneron offers an outstanding benefits package including relocation, medical, dental, vision, Rx, stock options, 401(k) plan with match, tuition reimbursement, short & long term disability, life insurance and paid holidays, vacation and personal days. Please visit our website at www.regn.com for more information. For consideration, please submit a cover letter indicating position of interest, along with a resume & salary requirements specifying appropriate Job Code to: Human Resources

REGENERON Pharmaceuticals, Inc.

777 Old Saw Mill River Road, Tarrytown, NY 10591

Fax: (914)345-7790 * e-mail text or PDF: jobs@regpha.com

EOE M/F/D/V

Regeneron...we thrive on unique challenges. You'll thrive with us.

Providing Innovative Technologies To Help All People Live Healthy Lives

We look beyond research into real life applications. At BD Technologies, we'll give you the power to implement your ideas and realize the applications of your work.

Senior Scientist — Advanced Drug Delivery

This position, reporting to the Team Leader, Microdevices, will have broad responsibilities for development of advanced drug delivery systems, with emphasis on intradermal delivery. Will plan and implement drug delivery system feasibility studies in collaboration with pharmaceutical company partners, using project management to plan, schedule and allocate resources. The incumbent will investigate external developing transcutaneous drug delivery technologies through technology sensing and joint experimental projects.

This position requires a Ph.D. in Chemistry or Pharmaceutical Science with 7-10 years of experience including 5+ years in drug delivery. Areas of expertise should include drug formulation and delivery with preferable emphasis on insulin and diabetes therapies, including constant and variable rate infusions and their linkages with device design and insulin formulation. Experience in immunology and vaccine delivery is also a distinct plus. The successful candidate will have a significant record of patents and scientific publications in the drug delivery field. Must have a demonstrated ability to supervise research staff to fulfill project objectives.

We provide competitive salaries and comprehensive benefits. Please forward your resume to: **BD Technologies, 21 Davis Dr., P.O. Box 12016, Research Triangle Park, NC 27709**, or e-mail to BDThr@bd.com Becton Dickinson is an equal opportunity/affirmative action employer.

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Senior Level Scientist for Division Chief

The Hazardous Materials Response Division of NOAA's National Ocean Service, Office of Response and Restoration is seeking a senior-level scientist for Division Chief. Duties include managing a diverse group of scientists and programmers who work in the areas of emergency response, research, numerical modeling, and product development. The Division is responsible for providing scientific advice and technical support during oil or hazardous material spills or other catastrophic events in the marine environment. The Chief is responsible for representing the Division throughout NOAA, other federal and state agencies and to members of the spill response community both domestically and abroad, and for setting research and program priorities and strategic direction for a multi-million dollar program. Salary is \$84,757 to \$110,180 per annum depending on experience and may be filled as Supervisory Physical Scientist, GS-1301-15, or as Supervisory Oceanographer, GS-1360-15. Those with strong technical and leadership skills may get application information from Pete Macias (206-526-6048; pete.macias@noaa.gov) or by reviewing the announcements on the internet at www.usajobs.opm.gov. There are two separate announcements depending upon whether one has Federal employee status. The announcement number for those with federal status is W/NOS/00208 PM, and that for nonstatus is FW0348/FW0349. Both announcements close May 31, 2000. EOE

Regulatory Affairs Program Manager

A Nashville, Tennessee based company dedicated to serving the needs of agriculture has a position immediately available for a Regulatory Affairs Program Manager. The candidate will be required to oversee all regulatory aspects of an international agriculture-based business in a changing and challenging environment. The successful applicant will have a Ph.D. or MBA and at least 3 to 5 years experience in a relevant discipline (biochemistry, cellular biology, genetics, or molecular biology). Pharmaceutical or agricultural industrial experience or familiarity with agricultural scientific research, laboratory safety regulations, and regulations pertaining to testing and commercialization of new plant products is highly desired. The candidate must have an appreciation of cultural diversity as well as exhibit excellent communication skills in both technical and business circles. They will also be expected to interact with internal and external scientists as well as with federal, state, local and international agencies that impact our business. Domestic and international travel will be required. Interested candidates should send their resume with salary requirements and references to:

Science, Box 89
1200 New York Ave., NW
Washington, DC 20005

EEO/M/F/V/D

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 each and every day.



At The National Academies, we bring about advances that positively impact human endeavor. This is not a solitary undertaking. It reflects a highly collaborative approach that brings together the talents, skills, and backgrounds of an exceptional group of professionals. We invite you to join our acclaimed team in Washington, DC.

PROGRAM DIRECTOR National Academy of Engineering

The National Academy of Engineering (NAE), of the National Academies is seeking a Director for its independent program of studies. The NAE's purpose is to promote the technological welfare of the nation by marshalling the knowledge and insights of eminent members of the engineering profession. To satisfy this purpose, the NAE seeks to identify issues central to the technological health of the nation and to impact the resolution of those issues through its study program.

The Program Director is a member of the NAE senior management team and is responsible for overseeing and coordinating the technical, financial, and administrative operations of a \$2M to \$4M study program, in compliance with institutional policy and contract/grant requirements, and developing appropriate programmatic agendas and strategic priorities to achieve the NAE's objectives. Additional responsibilities include identifying current and emerging issues/needs in engineering and its intersections with public policy, the economy, innovation, sustainable development, and related fields; providing administrative oversight of the Program's committees which conduct studies and other activities; and fostering collaboration with other National Academies commissions and offices.

Requirements include a Ph.D. or equivalent in Engineering, the Physical Sciences, Mathematics, or technology policy-related disciplines; and a minimum of 10 years of directly related experience demonstrating familiarity with public policy issues and the ability to work with leaders of the engineering research and policy communities on technical issues of national importance, including application of research developments to national needs. Management experience, excellent interpersonal skills, and communication skills, both written and verbal, are also required. A demonstrated ability to interact effectively with potential sponsors and other government agencies is essential.

We offer a competitive salary, an excellent benefits package, and a dynamic work environment. For consideration, please forward your resume with salary requirements, indicating the job code, to: The National Academies, GR 146, (DS109.032), 2101 Constitution Avenue, NW, Washington, DC 20418. Fax: (202) 334-1746. E-mail: ohrresum@nas.edu EOE, M/F/D/V.

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SURROMED SurroMed is a start-up biotechnology company whose goal is to discover new biomarkers for disease through an integrated strategy involving state-of-the-art measurement technologies, proprietary approaches to acquisition of clinical information, and new, sophisticated informatics analysis tools. We currently have opportunities for highly motivated individuals who can thrive in a start-up environment.

Vice President, Bioinformatics

This individual will have formal training or extensive experience in Bioinformatics and/or medical informatics, and a proven track record in hiring, organizing and managing a completely integrated group of software developers, biostatisticians, chemometricians, bioinformaticians, database architects, data mining algorithm developers, and IT infrastructure personnel. This candidate should have significant managerial experience, and an intimate knowledge of the leading edge work in bioinformatics both in academia and industry.

Scientist - Chemistry

This individual will lead efforts to carry out analyses of highly complex mixtures in biological fluids using a wide variety of separation and detection strategies. A strong background in the fundamentals of analytical chemistry, spectroscopy and organic chemistry is desirable.

Ph.D. in Chemistry with 0-2 years experience, MS with 5-8 years or comparable industrial experience. We require a strong knowledge of analytical methods for isolating and characterizing organic molecules from biological and/or natural products.

Scientist/Senior Scientist - Cellular Assays

This key scientist will lead the development of new assays for monitoring cell populations and cell function from blood samples that relate to various diseases. He/she will procure, develop and evaluate new antibody reagents. He/she will invent and develop new methodology and assays. He/she will contribute to the overall cellular assay strategy of the company.

Ph.D. in immunology, cell biology, or related fields. Post-doc and/or industry experience preferred. The successful candidate will have established a position in his/her field as evidenced by scientific publications, patents and/or products developed. Lab experience should include development and implementation of novel cell-based assays and flow cytometry protocols. Strong quantitative skills and experience interacting with physical scientists and engineers desired.

Scientist/Senior Scientist - Mouse Studies

This key scientist will serve as a project leader for extending the SurroMed platform for mouse studies. He/she will be responsible for developing reagents and cellular assays and will interact with groups developing soluble factor assays. Both hands-on work and supervision of assistants is required. He/she will lead select pre-clinical studies.

Ph.D. in cell biology, immunology, or related field required. Post-doc and/or industry experience preferred. The successful candidate will have established a position in his/her field as evidenced by scientific publications and/or patents. Lab experience should include development and implementation of cell-based assays, flow cytometry protocols and successful animal studies.

Biostatistician

This key individual will help with the design, development and implementation of a statistical/software-based infrastructure to facilitate clinical studies. He/she will perform statistical analysis and develop tracking systems to determine the performance of biological assays and to help identify biological markers for disease. This person will act as a liaison between clinical investigators and computer/informatics groups.

The ideal candidate will have an MS in statistics and 3+ years of hands-on experience. Previous experience with SAS or similar packages. Experience with databases such as Oracle is highly desired. Good written and oral communication skills.

Assistant Scientist - Biology

We are looking for a bright, motivated, energetic individual to participate in the processing and analysis of clinical samples. You will receive training and work with a supervisor in a multi-disciplinary clinical research setting.

BA/BS degree in cell biology or related field, 0.5 to 2 years of lab experience, including some of the following: cell-based assays, mammalian tissue culture, handling of blood, immunoassays, and flow cytometry. An ability to follow written protocols with care. Willingness to work some evenings.

Assistant Scientist - Chemistry

This individual will develop and carry out chromatographic and electrophoretic separation of analytes in biological fluids using mass spectrometry and fluorescence-based detection techniques.

BS/MS in Chemistry with a broad understanding of organic and analytical chemistry techniques. 0-2 years chromatographic and electrophoretic methods development with mass spectrometry and fluorescence based detection systems desirable.

Contact Information: e-mail: resume@surromed.com; fax: 650-855-9079; mail: 1060 East Meadow Circle, Palo Alto, CA 94303. EOE



**Department of Neurobiology
POSTDOCTORAL POSITIONS -
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We seek postdoctoral professionals for the following projects:

- Mechanisms of translational regulation with a focus on the direct interactions of mRNAs with ribosomes, and on the effects of these interactions on gene expression (apply to Vincent P. Mauro)
- Mechanisms of cell interaction in the nervous system with an emphasis on neural stem cells and control of gene expression and intracellular signaling (apply to Kathryn L. Crossin)
- Mechanisms that regulate gene expression during neural development with a focus on identification of gene regulatory elements that regulate cell adhesion molecules (CAMs) and applications of a new synthetic promoter construction method (apply to Frederick S. Jones)
- Structure and function of cell adhesion molecules, as well as proteins that interact with CAMs (apply to Bruce A. Cunningham)
- Mechanisms that modulate synaptic activity including regulation of gene expression and translation by neural activity (apply to Gerald M. Edelman)

To apply, please submit a CV including a statement of research experience/interest and arrange for letters of reference to be sent to one of the above individuals at The Scripps Research Institute, Department of Neurobiology, 10550 North Torrey Pines Road, SBR14, La Jolla, California 92037.

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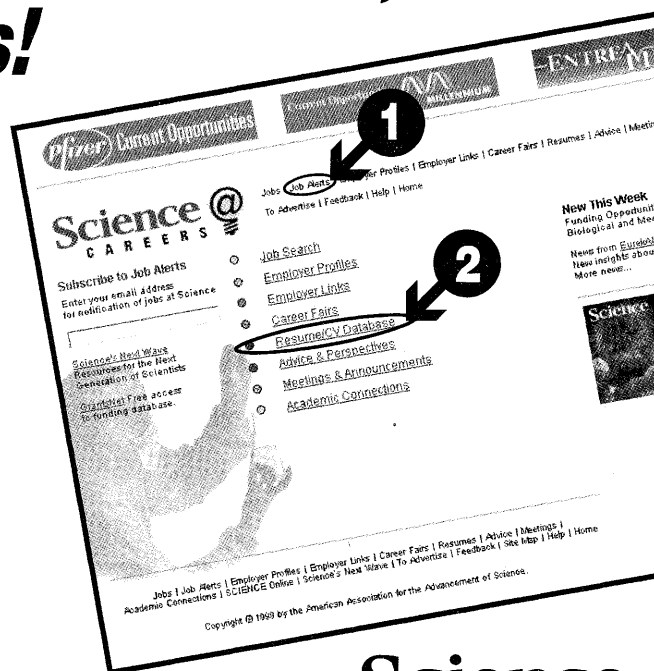
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Bioinformatics Scientist I

Job Code # 00-001161

Analyze and deliver data for customers and research; interface with scientists from research, development, and production; and be involved in function analysis of biological data and automation of data flow/quality control pipelines. Requires a MS/Ph.D. or equivalent in Biological, Physical, or Computer Science; research experience, preferably in Biological Science; and programming skills in a UNIX/ LINUX environment. Knowledge of object/relational database applications is highly desired.

Bioinformatics Scientist II

Job Code # 00-001166

Interface with research, development, and production to develop applications and process biological data for customers and research. Responsibilities include gene

discovery and function analysis; mapping, marker, and SNP discovery; gene expression analysis; automation of dataflow; and relational database design for the management of biological data. Requires a MS/Ph.D. or equivalent in Biological, Physical, or Computer Science; in-depth understanding of scientific research and applications; and working experience using C/C++, Perl, Python, UNIX/LINUX, and Internet technologies. Knowledge of object/relational database design and/or user-interface programming is highly desired.

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If unable to respond online, please direct your resume, indicating the appropriate Job Code, to: Celera AgGen, Attn: Chris Austin/(Job Code), 1756 Picasso Ave., Davis, CA 95616 or E-mail: chris.austin@davis.celera.com Celera is committed to drug-free work environment with pre-employment drug testing. EOE, M/F/D/V.



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Send curriculum vitae, bibliography and three letters of reference to:
Dr. Nan-ping Weng
National Institute on Aging, NIH
5600 Nathan Shock Drive,
Box 21
Baltimore, MD 21224
E-mail:
wengn@grc.nia.nih.gov



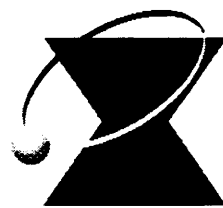
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Senior Scientist Gene Delivery/Biochemistry The Woodlands, Texas

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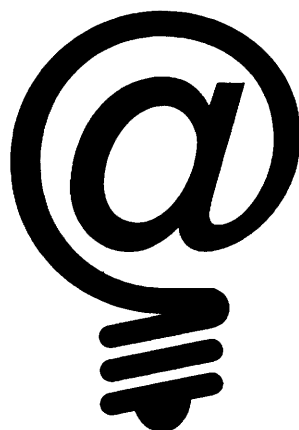
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Those interested should forward a curriculum vitae, bibliography and a list of referees to:

David P. Hajjar, Ph.D., Chair
Physiology and Biophysics Search Committee
**WEILL MEDICAL COLLEGE
OF CORNELL UNIVERSITY**
1300 York Ave, Rm F-108, NY, NY 10021

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The successful candidate will direct research assignments, communicate goals, evaluate performance and provide training and development plans for section personnel within our Protein Engineering & Enzymology Dept. Other challenges will involve recruiting new personnel and participating in developing a Center of Excellence in Expression Technology.

Applicants must possess a Master's Degree (PhD is preferred) in Biological Sciences or Chemistry, knowledge of enzyme characterization, amplification methods, protein and gene expression, and 5 years' experience with a Masters or 2 years experience with a PhD. Effective PC skills in MS Office suite of software is also essential.

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POSITIONS OPEN

FACULTY POSITION Washington Regional Primate Research Center and Department of Immunology University of Washington

The Washington Regional Primate Research Center and the Department of Immunology at the University of Washington seek a highly qualified applicant for a faculty and core staff position in immunology. Applicants must hold Ph.D. or M.D. or equivalent degrees and have a record of published research in immunobiology and teaching experience at the undergraduate and graduate levels. Rank and salary are open. Preference is for candidates at the **ASSOCIATE PROFESSOR** or **FULL PROFESSOR** level; however, outstanding applicants at the **ASSISTANT PROFESSOR** level are also encouraged to apply. The applicant may focus on any area of immunology, although the areas of vaccine development, immunity to viral and bacterial infections, and links between innate and adaptive immunity are of particular interest. The Department of Immunology offers excellent laboratory, flow cytometry, confocal microscopy, and transgenic animal facilities and access to contemporary analytical tools to address complex systems at the genetic and protein level. The Regional Primate Research Center provides unique access to outstanding nonhuman primate resources and newly renovated biosafety-level 2/3 laboratory space. Applicants capable of taking full advantage of these resources are particularly encouraged to apply. Duties will include teaching at the undergraduate and graduate levels. Send curriculum vitae, a brief description of proposed research, and names and addresses of three references to:

Dr. Christopher Wilson
Chair, Department of Immunology
Box 357560
University of Washington
Seattle, WA 98195-7650

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Stanford University School of Medicine, Department of Psychiatry and Behavioral Sciences, is seeking a full-time **ASSISTANT PROFESSOR** (research). The individual in this position should have a documented interest in and experience in psychotherapeutic interventions for persons who have experienced serious illnesses or other nonhealth-related traumas. The successful candidate must be able to aggressively seek research grants. Applicants must have demonstrated expertise in relevant research publications, clinical training, and/or teaching. Applicants must hold an M.D. or Ph.D. in clinical psychology. Candidates holding an M.D. must either hold or be eligible for a California medical license. Applicants should forward curriculum vitae and the names of five references to: **Dr. David Spiegel, M.D., Chairman of the Search Committee, c/o Department of Psychiatry, Stanford Medical Center, Stanford, CA 94305-5718.** *Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.*

FACULTY POSITION BIOCHEMISTRY

Lehman College, a senior college of the City University of New York, invites applicants for a tenure-track position in biochemistry at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level starting September 1, 2000. A Ph.D. is required, and postdoctoral experience is strongly recommended. A full description of this position can be found at **website: www.lehman.cuny.edu** (click on job opportunities). Please submit a letter of application, curriculum vitae, research interests, and names and addresses of three references to: **Prof. Marc Lazarus, Chair, Department of Chemistry, Lehman College, 250 Bedford Park Boulevard West, Bronx, NY 10468. FAX: 718-960-8750.** *Lehman College is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN



FACULTY POSITIONS VASCULAR BIOLOGY CENTER

Applications are invited from highly qualified individuals with a Ph.D. and/or M.D. degree and active extramural grant support. Tenure-track positions are available at the level of **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** at the Vascular Biology Center of the Medical College of Georgia. The Vascular Biology Center (**website: www.mcgc.edu/Centers/VBC**) is a unit of the School of Medicine consisting of nine full-time faculty members with active, funded interests in the areas of nitric oxide, endothelin, renin angiotensin system, and growth factors. The successful applicants will establish an active research program that will complement the interests of the Center and will also participate in teaching and training predoctoral and postdoctoral students. Excellent opportunities exist for collaborations with other interdisciplinary groups on campus, including the Heart Development Group, Georgia Prevention Institute, and the Sickle Cell Center. Applications, including curriculum vitae; statement of research interests; and names, addresses, and telephone numbers of three references should be sent to: **Dr. John Catravas, Regents Professor and Director, Vascular Biology Center, Medical College of Georgia, Augusta, GA 30912-2500. Telephone: 706-721-9800; FAX: 706-721-9799; e-mail: jcatrava@mail.mcgc.edu.**

CHAIRPERSON DEPARTMENT OF CELL BIOLOGY

The University of Medicine and Dentistry of New Jersey (UMDNJ), School of Osteopathic Medicine, is seeking applications and nominations of distinguished academic scientists qualified to fill the position of Chairperson of the Department of Cell Biology. The UMDNJ-School of Osteopathic Medicine has undergone a major expansion of its facilities and is in the process of further developing its campus in Stratford, New Jersey. The Basic Science Departments have an emphasis in molecular biology and cellular function and are housed in a modern, fully equipped research building. The present faculty encompass research programs in cell signaling, developmental biology, cardiovascular pathophysiology, vascular and leukocyte biology, cell physiology, and molecular biology. The successful candidate will be expected to work together with the Department of Molecular Biology in the development of joint research programs and graduate education. The Department of Cell Biology has the responsibility for the instruction of medical students in the disciplines of anatomy, neuroscience, pharmacology, and physiology.

We are seeking candidates who have an outstanding record of research achievements, who are dedicated to educational programs of high quality, and who have administrative experience. Although we are seeking individuals with research interests in any area of modern cell biology, we are particularly emphasizing recruitment of individuals with research interests in mechanisms of intracellular signaling and/or receptor action. Appointment will be made at the **PROFESSOR** level, with a starting date as early as September 1, 2000.

Letters of application; curriculum vitae; and the names, addresses, and telephone numbers of four references should be submitted to: **Christine Mackey-Ross, R.N., M.B.A., Witt/Kieffer, 8000 Maryland Avenue, Suite 1080, St. Louis, MO 63105. Telephone: 314-862-1370; FAX: 314-727-5662; e-mail: chrismr@wittkieffer.com.** *UMDNJ is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITION MOLECULAR BIOLOGY UNIVERSITY OF MINNESOTA

The Department of Ophthalmology at the University of Minnesota seeks a highly motivated, full-time faculty member to participate in the ongoing development of a strong research program in the molecular pathogenesis of macular degeneration and inherited retinal diseases. Based on the candidate's qualifications, the position will be offered at the tenure-track **ASSISTANT**, tenured and/or tenure-track **ASSOCIATE**, or tenured **PROFESSOR** levels. Applicants must have demonstrated productivity in quality research, strong communication skills, and the desire to work with clinicians and other scientists. Applicants for Associate Professor and above must have demonstrated ability to successfully compete for external research funding. Previous experience with eye research is not required. Review of applications will begin immediately and continue until the position is filled. The position will be available in fall 2000. Interested individuals should send curriculum vitae, a statement of research and career goals, and the names of three references to:

Dale S. Gregerson, Ph.D.
Chair, Search Committee
Department of Ophthalmology
Lions Research Building, RM 314
University of Minnesota
2001 Sixth S.E.
Minneapolis, MN 55455
FAX: 612-626-0781
E-mail: grege001@tc.umn.edu

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FACULTY POSITION ANNOUNCEMENT

The College of Science, Rochester Institute of Technology, invites nominations and applications for a **FULL-TIME TENURE-TRACK POSITION** in environmental science. The Environmental Science Program at RIT is an innovative interdisciplinary program leading to the B.S. and M.S. degrees with a very strong science focus. The program is designed to prepare students for rewarding careers in the environmental arena.

This position is available September 1, 2000. A Ph.D. in environmental science or a related discipline is required. Demonstrated teaching and research experience are desirable. The successful candidate will be expected to participate in teaching the integrated interdisciplinary core sequence of courses and to teach other courses related to the candidate's area of expertise. Advisement of students and research in support of the program are also expected. Salary and rank will be commensurate with qualifications and experience.

Applicants should submit a letter of application, curriculum vitae, and arrange to have three letters of reference sent to: **Chair, Search Committee, Environmental Science Program, College of Science, Rochester Institute of Technology, 85 Lomb Memorial Drive, Rochester, NY 14623-5603.**

RIT is an Equal Opportunity/Affirmative Action Employer and especially encourages applications from persons able to contribute in a meaningful way to the Institute's commitment to diversity and pluralism.

ASSISTANT PROFESSOR DEPARTMENT OF NEUROLOGY Oregon Health Sciences University

Immediate position available for Assistant Professor to join neuroimmunology research group. Cellular and molecular biology required, with experience in EAE preferred. Duties will include research, administration, and teaching. Salary \$60,000 plus full benefits. Curriculum vitae to: **Halina Offner, M.D., Professor, Neuroimmunology Research Research and Development-31, Portland VA Medical Center, 3710 S.W. U.S. Veterans Hospital Road, Portland, OR 97201.** *Oregon Health Sciences University is an Equal Opportunity/Affirmative Action Employer.*

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OF SOUTH CAROLINA

DEPARTMENT OF MICROBIOLOGY & IMMUNOLOGY

Postdoctoral Position in Molecular Parasitology

A postdoctoral position is available to study the mechanism by which the African parasite, *Trypanosoma brucei*, resists lysis by human serum [refer to: Tomlinson, S. and Raper, J. (1998) Natural human immunity to trypanosomes. *Parasitology Today* 14, 354-359]. Some experience in molecular biological techniques and protein expression is preferred. The position will become available around August/September, 2000. Applications (including CV and names of referees) and requests for further information should be sent to Dr. Stephen Tomlinson, Attn: Susan Edmonds, MUSC, Department of Microbiology & Immunology, BSB-201, 173 Ashley Avenue, Charleston, SC 29403.

Postdoctoral and Technical Positions in Molecular Immunology

Positions are available to study various aspects of complement biology. Investigations currently funded include: 1) The role of complement in inflammation and strategies to target recombinant complement inhibitors to sites of complement activation in autoimmune and inflammatory disease. 2) The molecular interaction between CD59 and its complement protein ligands. CD59 is a membrane-bound inhibitor of complement that protects host cells from the cytolytic membrane attack complex. 3) The role of complement inhibitors expressed on tumor cells in promoting tumorigenesis. For all of these projects, experience in molecular biological techniques and/or protein biochemistry is desirable. The positions will become available around August/September, 2000. Applications (including CV and names of referees) and requests for further information should be sent to Dr. Stephen Tomlinson, Attn: Susan Edmonds, MUSC, Department of Microbiology & Immunology, BSB-201, 173 Ashley Avenue, Charleston, SC 29403.

Postdoctoral Position in Environmental Microbiology

A postdoctoral position will be available in October 2000 to study the reductive dechlorination of PCBs by marine microorganisms. Experience in gas chromatography and molecular biology is preferred. Applications (including CV and names of referees) and requests for further information should be sent to Dr. Harold May, Attn: Susan Edmonds, MUSC, Department of Microbiology & Immunology, BSB-201, 173 Ashley Avenue, Charleston, SC 29403.



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Coordinate/perform internal audits on all sites, vendor audits (suppliers and contract labs) and agency inspections (FDA, EU, etc.) for PAI and Annuals. Requires a BS in a life science discipline and 10+ years QA experience in the pharmaceutical or biotech industry. Job Code 00120

QC Supervisor

Perform release testing in all areas of QC, as well as execute and interpret experimental data generated for method validation and stability studies. Requires a BS in a life science discipline and 1-5+ years related experience. Job Code 00211

Clinical Contracting Manager

Responsible for financial analysis, negotiation, and monitoring of compliance with clinical trials agreements and other contracts. Requires a BA/BS degree (MBA preferred) and 8-10 years related experience, including a background in clinical activities and financial analysis. Job Code 00203

Project Manager

With minimal supervision, help develop and implement strategic plans. Requires project management experience in the biotech/pharmaceutical industry or on corporate project teams. Job Code 00316

For the above California-based positions, please forward your resume, indicating Job Code, to: Aviron, Human Resources, 3055 Patrick Henry Drive, Santa Clara, CA 95054; fax 408-845-8712; email to egrimaldi@aviron.com (please use job title in subject line). No phone calls, please.

PHILADELPHIA OPPORTUNITIES

Materials Control Manager

Ensure compliance in the Materials Control function, focusing on logistics, receiving, storage, distribution, and record keeping. Familiarity with MRP system and knowledge of FDA and other pharmaceutical regulations are essential. A BA/BS in a scientific discipline with 3-5 years experience in a GMP environment is preferred. Job Code 91202

For the Materials Control Manager position, please forward your resume, indicating Job Code, to: Aviron, Human Resources, 3055 Patrick Henry Drive, Santa Clara, CA 95054; fax 408-845-8712; email to egrimaldi@aviron.com (please use job title in subject line). No phone calls, please.

QA Supervisor

Create and maintain internal auditing and regulatory compliance systems, plus review/audit. Requires a BS in a scientific discipline, 3+ years QA experience and knowledge of cGMPs. Job Code 00216

Production Supervisor

Oversee clean room activities during product filling, train/schedule personnel, and confirm QA release. Requires 1-3 years supervisory experience in a pharmaceutical environment and a Bachelor's degree in a scientific discipline. Job Code 00308

For the QA Supervisor and Production Supervisor positions, please forward your resume, indicating Job Code, to: Aviron, Attn: Recruiting, 3001 Red Lion Road, Philadelphia, PA 19114; fax (215) 281-2428. No phone calls, please.

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POSITIONS OPEN

THE UNIVERSITY OF SCRANTON INSTITUTE OF MOLECULAR BIOLOGY AND MEDICINE

The Institute of Molecular Biology and Medicine at The University of Scranton is engaged in research in the areas of molecular diagnostics, genomics, and bioinformatics. We are seeking highly motivated and innovative individuals to join our team.

PROTEOMICS SCIENTIST: Participate in proteome and functional genomic analysis. A Ph.D. in biochemistry or related field with strong publication record and expertise and experience in 2-D electrophoresis of proteins, robotics, protein analysis by mass spectrometry, and data analysis. Strong communication and organizational skills and demonstrated record of scientific accomplishment are essential.

POSTDOCTORAL RESEARCH ASSISTANTS: Several positions are available to participate in genomics and proteome analysis project. Minimum requirements for these positions include Ph.D. in molecular biology or related field. The successful candidates will have expertise and experience in DNA fingerprinting techniques, subtractive hybridization, genomic data analysis, 2-D electrophoresis of proteins, and protein analysis by mass spectrometry. Relevant laboratory skills might include PCR, DNA sequencing, handling of pathogenic bacteria, and strong writing skills. Applicants should submit a cover letter, résumé, and names of three references by May 19, 2000, to:

**Employment Manager
Human Resources
The University of Scranton
Scranton, PA 18510**

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BRADLEY UNIVERSITY

VISITING INSTRUCTOR/VISITING ASSISTANT PROFESSOR: Biology Department has a full-time position at the Instructor or Assistant Professor level for a nine-month period beginning August 14, 2000. Qualifications include a minimum of a graduate degree (Ph.D. preferred) in a biological science and a commitment to undergraduate teaching. Expertise in genetics, cell, or molecular biology is preferred. We strongly encourage applicants interested in involving undergraduates in research. More information is available at website: <http://www.bradley.edu/personnel/>. For full consideration, send letter of interest, curriculum vitae, transcripts, and have three letters of reference sent by May 15, 2000, to: **Dr. Kelly McConnaughay, Department of Biology, Bradley University, Peoria, IL 61625**. Applicant screening will begin immediately and will continue until the position is filled. *Bradley University is an Equal Employment Opportunity/Affirmative Action Employer and encourages applications from underrepresented groups.*

Diabetes faculty positions (tenure track) are available in a newly formed Center for Diabetes Research at the Indiana University School of Medicine. The School has embarked on a major initiative to enhance basic diabetes research. Faculty would have primary appointments in an appropriate basic science department and would be expected to develop an externally funded basic research program with direct relevance to diabetes and its complications. Areas of interest include but are not limited to molecular mechanisms of insulin signaling and hormone action, molecular and cellular aspects of metabolic control, proteomic or genomic approaches to diabetes research, and islet cell biology. Successful candidates would also participate in training medical and graduate students. The levels of the positions are open, and competitive space and start-up funding are available. Please send applications to: **Dr. Peter J. Roach, Director, Center for Diabetes Research, Van Nuys Medical Science Building, MS405A, 635 Barnhill Drive, Indiana University School of Medicine, Indianapolis, IN 46202**. Telephone: 317-274-1582; e-mail: diabetes@iupui.edu.

POSITIONS OPEN

FACULTY POSITIONS MOLECULAR IMMUNOLOGY

Tenure-track faculty positions at the rank of **ASSISTANT/ASSOCIATE PROFESSOR** are available to allow expansion of a collaborative research group focused on the molecular biology of chronic inflammatory responses. Preference will be given to candidates researching the regulation of T cell or macrophage inflammatory immune processes at the molecular level. Generous start-up funds; 12-month, state-line salary; and a supportive environment are provided. Successful candidates will have or be expected to establish a productive, extramurally funded research program and will bring strong teaching capability to our graduate and medical (or dental) education programs. The rank of Associate Professor will be considered for individuals who have an established research program with significant extramural research funds. Applicants must have two or more years of postdoctoral research experience with clear evidence of productivity and fundability. The search will remain open until the positions are filled. To apply, submit curriculum vitae containing an abstract of research interest and arrange for four letters of reference to be sent to: **Robert D. Stout, Ph.D., Professor and Chairman, Department of Microbiology and Immunology, School of Medicine, University of Louisville, Health Sciences Center, Louisville, KY 40292**. *University of Louisville is an Equal Opportunity Employer.*

TENURE-TRACK FACULTY POSITION NEUROSCIENCE

The Department of Cell and Neurobiology, Keck School of Medicine of the University of Southern California, invites applications for a tenure-track faculty position. Rank of appointment will be commensurate with experience. Required qualifications: M.D. and/or Ph.D. in human neuroanatomy or related area, experience in teaching and lecturing in medical neuroanatomy, and demonstrated ability to attract private or federal grant funding support. Preferred qualifications: an established **NEUROBIOLOGIST** with a successful research program in the area of molecular neurobiology or neurogenetics. Excellent teaching record to participate in the medical and graduate teaching programs, with major emphasis in teaching and lecturing in medical neuroanatomy. For more information, please contact: **Judy A. Garner, Ph.D., Neuroscience Search Committee Chair; Telephone: 323-442-1279; e-mail: jgarner@hsc.usc.edu**. Applicants should submit curriculum vitae; a statement of research and teaching interests; and the names, addresses (including e-mail), and FAX numbers of three individuals for letters of reference to: **Cheryl M. Craft, Ph.D., Chair, Department of Cell and Neurobiology, Keck School of Medicine of the University of Southern California, BMT 401, 1333 San Pablo Street, Los Angeles, CA 90089-9112**. Website: http://www.usc.edu/schools/medicine/academic_departments/cnb/.

The University of Southern California is an Equal Opportunity Employer.

JUNIOR FACULTY or POSTDOCTORAL POSITION: University of Colorado Health Sciences Center. Available immediately to study signaling and transcriptional regulation of proinflammatory pathways involved in acute inflammatory lung injury. Candidates should have a strong background in molecular biology and evidence of research productivity. Send curriculum vitae and three references to: **Edward Abraham, M.D., Professor and Head, Division of Pulmonary Sciences and Critical Care Medicine, Box C272, University of Colorado Health Sciences Center, Denver, CO 80262**. FAX: 303-315-5632; e-mail: edward.abraham@uchsc.edu.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR

The Division of Pulmonary and Critical Care Medicine at the University of Michigan is seeking two tenure-track Physician-Scientists at the level of Assistant or Associate Professor with an interest in either the basic or clinical investigation of lung disease. The Division consists of 28 M.D. or Ph.D. faculty members with well-developed research programs in the study of basic mechanisms of infectious, inflammatory, and fibrotic lung disease. Applicants should have a strong record of publication appropriate for the level of appointment and will be expected to develop and maintain an extramurally funded research program. Excellence in clinical and teaching activities also essential. Please send curriculum vitae to: **Galen B. Toews, M.D., Chief, Division of Pulmonary and Critical Care Medicine, The University of Michigan Medical Center, 6301 MSRB III, Box 0642, Ann Arbor, MI 48109**. *The University of Michigan is a nondiscriminatory/Affirmative Action Employer.*

The Department of Botany, North Carolina State University, invites applications for a 12-month tenure-track position as **ASSISTANT PROFESSOR** of plant systematics to begin fall 2000. We are seeking an individual to establish an innovative, competitively funded research program addressing fundamental questions in evolution, ecology, or biodiversity. Participation in the teaching program, including one course in plant systematics, is expected. A Ph.D. is required, and postdoctoral research experience is preferred. Interested persons should send curriculum vitae, statements of research and teaching interests, and three letters of recommendation to: **Chair, Plant Molecular Systematist Search Committee, Department of Botany, Box 7612, North Carolina State University, Raleigh, NC 27695**. Applications received prior to June 1, 2000, will have full consideration. *North Carolina State University is an Equal Opportunity/Affirmative Action Employer.*

UNIVERSITY OF FLORIDA

Seeks an **ASSISTANT PROFESSOR** for a .40 FTE tenure-track position in the Department of Medicine, Division of Dermatology. M.D. degree, Board-eligible/Board-certified in dermatology. Duties will include but are not limited to patient care in the dermatology clinics. Salary and benefits commensurate with experience. Recruiting deadline: May 1, 2000. Anticipated starting date: May 17, 2000. Reply with curriculum vitae to: **Francisco Ramos-Caro, M.D., Associate Professor, Division of Dermatology, Box 100277, JHMC, Gainesville, FL 32608**. *An Affirmative Action/Equal Opportunity Employer.*

NEUROSCIENCE RESEARCH FELLOW

Postdoctoral positions available for studies of receptor action on nervous system development at Yale University. Experience in neuroscience and/or molecular biology is preferred. Please send curriculum vitae and names of references to: **Scott Rivkees, M.D., Department of Pediatrics, Yale University, P.O. 208081, New Haven, CT 06520**. E-mail: Scott.Rivkees@Yale.edu. *Affirmative Action/Equal Opportunity Employer.*

The Department of Biology at the University of Pennsylvania has two openings for nontenure-track **INSTRUCTORS** for academic year 2000–2001. Further information concerning our varied teaching needs and application procedures is available at website: www.sas.upenn.edu/biology/features/spring00/search.html. *The University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

STAFF ASSOCIATES COLUMBIA UNIVERSITY

Coordinate study of development of young febrile children. Master's degree or M.D. required. Contact: **Dale Hesdorffer, Ph.D., Columbia University, P&S Unit 16, 630 West 168th Street, New York, NY 10032**. *We take Affirmative Action toward Equal Employment Opportunity.*



Team Leader

The National Institute for Occupational Safety & Health (NIOSH) announces the position of Team Leader in the Toxicology and Molecular Biology Branch, Health Effects Laboratory Division (HELD) at CDC in Morgantown. This Division's primary responsibility is to conduct laboratory-based biomedical research into the mechanisms, control & prevention of workplace-related diseases. The lab will focus on the study of the cellular and molecular events in musculoskeletal diseases. A background in genetics, physiology, and/or pharmacology with research experience in the biology of musculoskeletal disorders is required. The successful candidate will have opportunities to collaborate with other Branch investigators conducting research programs in immunotoxicology, receptor biology, neurotoxicology, molecular toxicology, dermatotoxicology, and molecular carcinogenesis, as well as other Branches with expertise in musculoskeletal disorders. Laboratory support including an annual operating budget and junior staff positions will be provided.

Applicants should send a curriculum vitae and a cover letter describing the candidate's area of research and how expertise will be applied to occupational safety and health issues to:

John D. Stewart
Toxicology and Molecular Biology Branch
National Institute for Occupational Safety and Health
m/s 3014
1095 Willowdale Road
Morgantown, WV 26505

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COR Therapeutics, Inc. offers competitive salaries & benefits, and attractive equity positions. To apply, please send resume to: COR Therapeutics, Inc., Human Resources, Attn: Job# A006-SCI, 256 East Grand Ave, South San Francisco, CA 94080; Fax: (650) 615-9639; Email: hr@corr.com.



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The ideal candidate will possess a BS/MS in the biological sciences and a minimum of 3-5 years of industrial experience. Previous experience in large scale cell culture is highly desirable. Must be able to work independently within the framework of the team goals. Good written and verbal communication skills, as well as organizational skills are required. Knowledge of cGMP's is a plus. Ad Code: 99-1291

Senior Toxicologist

We require a candidate to represent the toxicology function on project teams to further the progression of compounds through development and resolve toxicology issues. You will address mechanistic issues arising from toxicology studies conducted in support of compound discovery and development, using molecular, biochemical, and cellular biology techniques.

To succeed in this challenging role, the ideal candidate will possess a Ph.D. in toxicology, pharmacology or related discipline with at least 2 years postdoctoral experience in molecular and biochemical toxicology. Excellent written and verbal communication and presentation skills are required. Supervisory experience and knowledge of GLPs ideal. Training in immunology a plus. Ad Code: 00-1471

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Scientific Programmer

Responsibilities include automation of gene discovery pipelines, functional analysis, SNP discovery and data mining tools. Requires a BS/MS, Ph.D. or equivalent in biological, physical or computer science. Excellent working knowledge of UNIX, PERL/C/C++, and relational database programming. Familiarity with current algorithms in bioinformatics and with public domain sequence analysis tools is a plus. Jobcode: SC-SPRO

Senior Software Engineer

Responsible for developing web applications, network programming and web connectivity to relational databases. Requires a BS in computer science or equivalent, with 3-5 years of experience in UNIX, C/C++, PERL, Java Script, and Apache. Jobcode: SC-SENG

Bioinformatics Scientist

Individual will be responsible for data processing and method development necessary for sequence analysis and data mining. Requires MS or Ph.D. or equivalent in biological, physical or computer science. Experience with one or more of the following is required: PERL, C/C++, UNIX, shell script. Jobcode: SC-BSCI

Desktop Support

Responsibilities include hardware and software technical support of PC (Windows 9x/NT) and Macintosh (MacOS7/8/9) computer systems on a 10/100 / Ethernet network. The successful candidate must be familiar with general networking concepts such as workstation configuration, network printing, TCP/IP and Internet connectivity. A+ or MCP certification a plus. Jobcode: SC-DSUP

Candidates may send resumes to: **Large Scale Biology Corporation, 3333 Vaca Valley Parkway, Ste. 1000, Vacaville, CA 95688**, e-mail www.careers@lsbc.com or fax (707) 455-1648. Please include the jobcode of interest. No phone calls please. Only those under consideration will be contacted.

RESEARCH ASSOCIATE

The Neurobiology Department at Amgen is seeking a skilled molecular biologist to identify novel drug targets in neurodegenerative diseases, with a primary focus on Alzheimer's disease. Recently, we have used expression cloning to identify the beta-secretase enzyme, a prime drug target for Alzheimer's disease (Vassar et. al., 1999, Science 286:735). The individual hired for this position will be responsible for performing and developing expression cloning screens. Other job responsibilities would include characterization and validation of novel targets using various molecular and cell biological approaches. The individual will make intellectual contributions to projects and will participate in a team environment.

At least 5 years of research experience in the area of gene cloning and the molecular and cellular characterization of gene function is required. Demonstrated experience specifically with expression cloning is preferred.

Critical skills involve molecular and cellular biological techniques including generation of cDNA libraries, transient and stable transfection of mammalian cells, PCR, Southern, Northern, Westerns, and basic recombinant DNA techniques

and computer skills. Preferred skills include generation of cDNA expression libraries, operation of automated and robotic equipment, and computer database analysis skills. BA/BS in a molecular biological science is required. Higher degree is preferred. (Req.# 00-0000694).

We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center, and three weeks of vacation. For immediate consideration, please e-mail your ASCII text resume to: **JChiang@amgen.com Attn: (Req.# 00-0000694)** or mail to: **Amgen Staffing, (Req. # 00-0000694), P.O. Box 2569, Thousand Oaks, CA 91319-2569.** EOE/AA Employer M/F/D/V.

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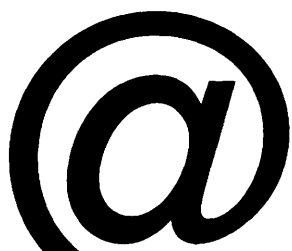
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Positions are available for postdoctoral fellows interested in developing mouse models for human cancer. The laboratory is interested in the role of mutated nucleoporins, transcriptional coactivators and mitotic checkpoint genes in the development of breast or colorectal cancer. Individuals with Ph.D. in biological or biomedical sciences and a strong interest in gene targeting and ES cell technology are encouraged to apply. Salary will be determined by the successful candidate's experience. There is also an attractive benefit package. Mayo Clinic is a non-profit physician led clinical practice integrated with education and research in a unified multi-campus system. Applications, including a curriculum vitae, summary of past accomplishments and the names of three referees, should be sent to:

Jan van Deursen, Ph.D.
Mayo Clinic
Pediatric and Adolescent Medicine
Guggenheim-10
200 First St., SW
Rochester, MN 55905
e-mail: vandeursen.jan@mayo.edu

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NATURAL HISTORY MUSEUM
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CURATOR OF INVERTEBRATE PALEONTOLOGY: SEARCH RE-OPENED

The Natural History Museum of Los Angeles County has an immediate opening for a Full, Associate, or Assistant Curator to direct its research and collections programs in Invertebrate Paleontology. The Museum has world-class holdings in fossil invertebrates, with special strengths in marine taxa from the western United States, including more than 9,000 type specimens, and a rich history of collection-based research on fossil invertebrates. We seek an individual who will implement a strong, internationally recognized, collections-based research program in invertebrate paleontology. The area of specialization is open. The successful candidate will be expected to establish a field program, develop the collections, contribute to the Museum's public programs (education and exhibits), and become successful in obtaining grants to assist in the support of their research and the Museum's collection. A Ph.D. in an appropriate discipline (e.g. paleontology, paleobiology) is required. Applicants should send a curriculum vitae, statement of interest, and the names and addresses of three references by June 15, 2000, to: **Dr. Joel W. Martin, Natural History Museum of Los Angeles County, Research & Collections, Section of Crustacea, 900 Exposition Boulevard, Los Angeles, California 90007.**

The Museum is an equal opportunity employer.

President of Joint Oceanographic Institutions and Executive Director of Ocean Drilling Programs

The Joint Oceanographic Institutions, Inc. (JOI) is seeking a highly qualified individual, with both significant scientific leadership, advocacy, and organizational management skills and experience, to fill a new position as both President of JOI and Executive Director, Ocean Drilling Programs (ODP).

In filling the role of President, the President reports to the Board of Governors (BOG) consisting of the Deans and Directors of the fourteen member academic institutions. The President is charged with the leadership and management of JOI and works with the BOG to develop, foster, and execute national and international programs of scientific ocean drilling and related research and education activities. The President is responsible for the tangible and intangible resources of JOI and is accountable to the BOG for the overall management of the corporation and the preparation, submission, and execution of its grants and contracts.

In filling the role of Executive Director, the Executive Director, Ocean Drilling Programs, by agreement with the U.S. National Science Foundation (NSF), is charged with the broad leadership and administration of the Ocean Drilling Program on behalf of its 20 international partners. The Executive Director is also responsible for the overall management within JOI of the U.S. science support programs affiliated with ODP. While candidates should note that the final drilling phase of ODP will extend to October 2003, the President will be expected to help position JOI, Inc. to be a major player in the new and expanded post-2003 drilling program called the Integrated Ocean Drilling Program (IODP). Plans for IODP are well underway and response by JOI to an RFP expected from the National Science Foundation by January 2002 will be one key responsibility.

Necessary minimum qualifications for the position include an advanced degree in oceanography or geosciences (preferably at the Ph.D. level) and 15 years or more experience in research; demonstrated success in project and/or program management; and willingness to relocate to Washington, D.C. Desirable additional qualifications include familiarity with the ODP and NSF program planning procedures; a desire to enhance cooperation between ODP and other international scientific initiatives; and a vision of how to involve a wider, international scientific community in the future IODP, both through the development of new partners and the integration of new scientific disciplines. The position requires extensive domestic and international travel. Salary will be competitive with other senior leadership positions within the scientific community.

Additional information related to all aspects of JOI's activities can be reviewed on the web site at <http://www.joi-odp.org>.

An application letter, including a complete CV and names of four references, should be addressed to:

Director, Administration
Joint Oceanographic Institutions
1755 Massachusetts Avenue, N.W.
Suite 800
Washington, D.C. 20036-2102

Review of applications is expected to begin immediately and continue until the position is filled. JOI is an equal opportunity employer. This advertisement supersedes and cancels ones previously posted for the Director, ODP position.

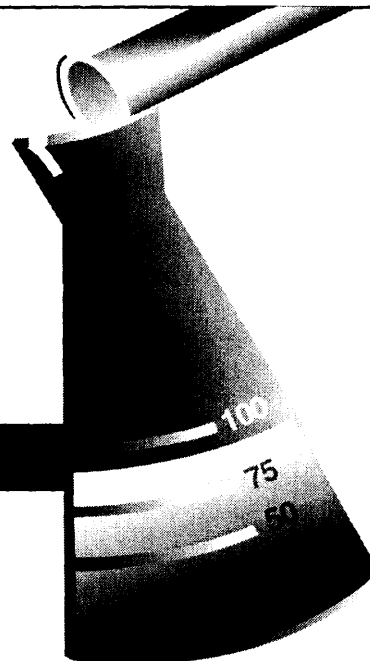
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1. *Science* Dec. 1999 BPA Publisher's Statement.

2. *Science* Harvey Research Readership Surveys: Aug. 1998, 1998 European Cumulative Report, as applied to AAAS June 1999 membership profile, publisher's own data.

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The Consortium for Oceanographic Research and Education (CORE), Inc., a non-profit consortium of over 60 ocean research and education institutions, is seeking a highly qualified individual, with significant scientific leadership, advocacy and organization management skills to fill the position of President and Chief Executive.

The President reports to the Board of Governors consisting of the Deans and Directors of the member institutions and is charged by them to carry out the missions of the Corporation.

CORE's measures to carry out these missions include education, public policy and lobbying activities, and research projects. Specifically, CORE currently manages the National Oceanographic Partnership Program Office for the National Ocean Research Leadership Council; The National Ocean Sciences Bowl on behalf of five Federal agencies and private sponsors; the Secretariat for the Census of Marine Life; and conducts a variety of activities to inform and educate the Congress.

Qualified applicants should have broad based experience and demonstrated success in senior management positions in the field of science and technology, preferably in oceanography or related fields. The position requires a person with vision and ability to work with senior executives in academia, Federal agencies, the U.S. Congress, the private sector and private foundations. Experience in Congressional interactions and in managing national and international programs are requirements.

Additional information related to all aspects of CORE's missions and activities can be reviewed on the web site at <http://core.ssc.erc.msstate.edu>.

An application letter, including a complete CV and names of four references, should be addressed to **Director, Administration, Consortium for Oceanographic Research and Education, Inc., 1755 Massachusetts Avenue, N.W., Suite 800, Washington, D.C. 20036-2102.**

Review of applications is expected to begin immediately and continue until the position is filled. Salary will be competitive with other senior leadership positions in the scientific community.

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A Ph.D. in Biochemistry, Cellular Biology, Pharmacology or related field with 2-3 years laboratory experience in assay development or drug discovery screening is required. You must possess detailed knowledge of biological assays (enzyme-substrate, receptor-ligand, protein-protein, hybridization) and be expert at handling biologicals (proteins, nucleic acids, antibodies). Experience with HTRF® FRET or radioisotopic proximity assays is a real plus. You must have excellent communications skills, be customer-oriented, and be able to travel extensively domestically and internationally to visit customers.

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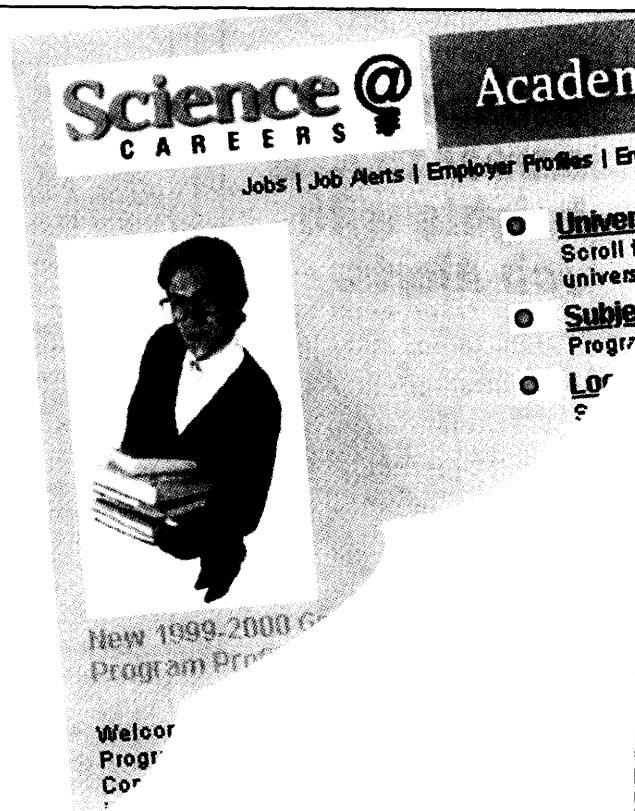
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- **Hypercholesterolemia**
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If you are a talented and creative scientist ready to take on an exciting and extremely challenging role, we want to hear from you. Additional opportunities and detailed career descriptions can be found on our website at www.tularik.com. In addition to challenging and empowering our employees to reach their full potential, Tularik offers employee stock options, a competitive salary and benefits package, and an exciting work environment where your contributions will make a difference. For immediate consideration, please submit your CV to: **Tularik Inc., HR Department, Two Corporate Drive, South San Francisco, CA 94080; Fax: (650) 825-7303; email: resume@tularik.com. EOE**

www.tularik.com



ANNOUNCEMENTS

CYSTIC FIBROSIS FOUNDATION

THE INFLAMMATORY PROCESS IN THE CYSTIC FIBROSIS LUNG

REQUEST FOR APPLICATIONS

The mission of the Cystic Fibrosis (CF) Foundation is to assure the development of the means to cure and control cystic fibrosis and to improve the quality of life for those with the disease. As most of the morbidity and mortality in cystic fibrosis today is due to inflammatory lung disease, the CF Foundation is soliciting applications for funding research projects aimed to better our understanding of cystic fibrosis lung pathophysiology as it relates to infection and inflammation.

Applications will be considered for review by the CF Foundation for projects involving, but not limited to, the following areas of research: 1) whether mutated forms of the Cystic Fibrosis Transmembrane conductance Regulator directly stimulate or dysregulate intracellular signaling pathways involved in production of inflammatory mediators in the lung and/or directly perturb the function of myeloid cells; 2) the role of airway epithelial cells and intracellular signaling mechanisms in promoting inflammatory responses to bacteria and other pathogens; 3) disorders of production of and response to cytokines and other mediators; 4) mechanisms of resolution of inflammation in normal airways and their possible dysfunction in cystic fibrosis; and 5) new approaches to modulation of the inflammatory response in the cystic fibrosis lung. Studies aimed at developing and validating non-invasive surrogate markers for lung inflammation, and clinical studies, including those focusing on whether inflammation begins autonomously and/or persists abnormally in the cystic fibrosis lung are also welcomed. Relevance to cystic fibrosis will be an important consideration in evaluating all applications, but basic studies will be considered.

Awards will be for up to \$125,000 annually (academic and not-for-profit institutions may request up to an additional 8% annually for indirect costs) for a maximum of three years. Renewal for years 2 and 3 will be based, in large part, upon satisfactory progress during the previous year. The deadline for receipt of applications is July 1, 2000. All applications will be reviewed by an *ad hoc* committee on or before July 14, 2000. Funding for meritorious applications will begin no sooner than November 15, 2000.

For more information and applications please contact the **Cystic Fibrosis Foundation, Office of Grants Management, 6931 Arlington Rd., Bethesda, MD 20814.**

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THE UNIVERSITY OF HONG KONG

香港



大學

The University of Hong Kong is one of the leading international comprehensive research universities in the Asia-Pacific region, with more than 100 departments and sub-divisions of studies and learning. There is currently an enrolment of more than 15,000 students (6,000 at postgraduate level). Research students come from more than 40 countries. The medium of instruction is English. The University is committed to its vision of globalisation, together with excellence in scholarship and research.

Temporary Assistant Professor in the Department of Biochemistry

Applications are invited for appointment as Temporary Assistant Professor in the Department of Biochemistry (Ref: RF-1999/2000-280), tenable from 3 January 2001. The appointment will be made on a one-year temporary basis.

The Department has excellent research facilities and it co-ordinates the activities of the Transgenic Centre of the Faculty of Medicine. Besides offering BSc degree courses in Biochemistry and teaching extensively in the MB, BS and BDS curricula, the Department contributes to the B Nursing as well as the M Medical Sciences teaching programmes. Postgraduate training is also offered, leading to the PhD and MPhil degrees. Currently there is a total enrolment of 29 postgraduate students.

Applicants must possess a PhD degree with post-doctoral experience in Molecular Biology and a good published research record. To satisfy the funding requirement, applicants should either be born in Hong Kong or have lived in Hong Kong for seven continuous years or more at the time of making an application. The appointee will contribute to teaching in molecular and developmental genetics and connective tissue biology in the undergraduate and postgraduate teaching programmes of the Department.

Annual salary for the Assistant Professorship (in the grade of Lecturer) will be within the range of HK\$554,280 – HK\$666,180, with starting salary depending on qualifications and experience (approx. US\$71,540 – US\$85,900; US dollar equivalents as at 10 April 2000).

At current rates, salaries tax will not exceed 15% of gross income. The appointment carries leave, medical and dental benefits, and an allowance for children's education in Hong Kong.

Further particulars and application forms can be obtained at <http://www.hku.hk/apptunit/>; or from the Appointments Unit (Senior), Registry, The University of Hong Kong, Hong Kong (Fax: (852) 2540 6735 or 2559 2058; E-mail: apptunit@reg.hku.hk). Further information on the Department can be obtained at <http://www.hku.hk/biochem/>; E-mail: biochem@hkusua.hku.hk. Closes 1 June 2000.

The University is an equal opportunity employer and enjoys a smoke-free environment

JACKSON ENVIRONMENT INSTITUTE
SCHOOL OF ENVIRONMENTAL SCIENCESUEA
NORWICH

DEPUTY DIRECTOR (READER OR PROFESSOR)

Applications are invited for the post of Deputy Director of the Jackson Environment Institute at the University of East Anglia. The Jackson Environment Institute, under the Directorship of Professor Martin Parry, moved to the University of East Anglia in October 1999. The aim of the Institute, which is funded jointly by the Jackson Foundation and the University, is to undertake research and apply knowledge on issues of immediate interest to the public concerning the environment, primarily in the UK and Europe, but also world-wide. The Institute is linked to UEA's 5* School of Environmental Sciences. The Deputy Director will work with the Director in:

- developing the Institute's research activities;
- generating external research income;
- liaising with leaders of the Institute's projects;
- developing outreach activities;
- communicating the spirit and mission of both the Institute and the University.

The successful applicant will have expertise in any area of environmental sciences, although preference would be given to one or more fields relating to water, land use, energy, environmental quality, waste or amenity. He or she will have an international research reputation and will be expected to continue his/her own research. An appointment at professorial level will be considered for a candidate of appropriate distinction.

The post is initially for three years but could lead to a longer-term contract as the research programme evolves. The appointment will start on or before 1 October 2000 and the salary will be on the Academic Scale in the range £31,563 to £38,561 per annum at Readership level, or £36,401 to £40,137 per annum at Professorial level, both scales under review (individual salaries above the Professorial scale are determined on the basis of experience and performance).

Further particulars and an application form are available from the Registrar and Secretary, University of East Anglia, Norwich, NR4 7TJ (answerphone: 01603 593648, email: c.cook@uea.ac.uk), to be returned by 19 May 2000. Please quote reference number AC307.

SENIOR RESEARCH SCIENTISTS

Applications are sought from suitably qualified candidates for the posts of three Programme Leaders for the Jackson Environment Institute. These will have the responsibility for research programme initiation, development and delivery. Applicants should have well-established reputations for research, and have interests in any area of environmental science, but preference may be given to those in: agriculture and the environment, alternative energy technologies, water resource management, urban environmental quality and waste management.

Appointment will be at a senior level on the Research and Analogous Scale in the salary range £22,579 to £35,670 per annum (under review), depending on experience. One post is immediately available and the others from 1 October 2000. The posts are initially for a three-year period, but it is intended that longer-term positions will be available as the research programme evolves.

Further particulars should be obtained from Dr J.P. Darch, School of Environmental Sciences, University of East Anglia, Norwich NR4 7TJ. email: j.darch@uea.ac.uk telephone: 01603 592994.

A letter of application and a current curriculum vitae containing the names and addresses of three referees who can testify for your academic abilities should be sent to Dr J.P. Darch, Research Administrator, School of Environmental Sciences, University of East Anglia, Norwich, NR4 7TJ, UK, by 19 May 2000.

UEA is committed to excellence in education and research.

POSITIONS OPEN

Two **POSTDOCTORAL POSITIONS** are available in the Mycobacteria Research Laboratories at Colorado State University to study: (1) the structure and function of protein modifications in *Mycobacterium tuberculosis* and (2) T cell reactivity and immunomodulation of *M. tuberculosis* proteins. Applicants should have a strong background in protein chemistry and purification. Experience in mass spectrometry or working with pathogenic organisms is desirable. The Mycobacterial Research Laboratories have state-of-the-art facilities for protein chemistry (including electrospray MS-MS) and immunological analysis of proteins and a new 12,000 square-foot BSL-3 facility. Curriculum vitae plus three letters of recommendation should be submitted to: **Charmaine Matheson, c/o Drs. John T. Belisle and Ian M. Orme, Mycobacteria Research Laboratories, Department of Microbiology, Colorado State University, Fort Collins, CO 80523-1677. E-mail: jbelisle@cvmbs.colostate.edu.** Deadline for applications is May 24, 2000. CSU is an Equal Employment Opportunity/Affirmative Action Employer. Equal Opportunity Office: 101 Student Services.

POSTDOCTORAL FELLOW ASSOCIATE/INSTRUCTOR TRANSCRIPTION FACTORS

Two positions are available to study (1) a novel developmental transcription factor and (2) locus control mechanisms during development. Positions can be set up to accommodate qualified recent graduates or more experienced transcriptional researchers. Salaries are competitive and negotiable. Please send curriculum vitae and the names of two references to: **Joseph Locker, Professor, Department of Pathology, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. Telephone: 718-430-3422; FAX: 718-430-3483; e-mail: locker@aecom.yu.edu.** Equal Opportunity Employer.

BIOLOGICAL SCIENCE AND HEALTH SCIENCE FACULTY GEORGETOWN UNIVERSITY

Full- and part-time positions are available for **PH.D. SCIENTISTS** with expertise in genetics, molecular biology, pharmacology, or immunology. Appointment/rank is commensurate with background. Successful candidates have experience in research/teaching in biological/health-related sciences and possess facility in teaching large and small undergraduate and graduate groups. GU School of Nursing, part of GU Medical Center, awards degrees in both nursing and in health studies. Application deadline: May 15, 2000. Send cover letter, curriculum vitae, transcripts, and contact information of three references to: **Associate Dean Dorrie Fontaine, DNSc, GU School of Nursing, 3700 Reservoir Road, N.W., Box 571107, Washington, DC 200057.** Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL AND POSTMASTERS' POSITIONS available immediately to study ion channel/receptor physiology and neuronal interaction in developing mammalian retinas using patch clamp and Ca²⁺ imaging. Motivation and experience in electrophysiology or Ca²⁺ imaging required. Contact: **Dr. Jimmy Zhou, Department of Physiology, MS 505, University of Arkansas for Medical Sciences, Little Rock, AR 72205. E-mail: zhoujimmy@exchange.uams.edu.**

POSTDOCTORAL POSITION available to study cardiac transcriptional regulation and cardiac development. We utilize molecular techniques, including transgenic mouse models and knockouts, to investigate disease-causing pathways. Contact: **Jeffery D. Molkentin, Ph.D., Children's Hospital Medical Center, Division of Molecular Cardiovascular Biology, 3333 Burnet Avenue, Cincinnati, OH 45229-3039. FAX: 513-636-5958.**

POSITIONS OPEN

MASS SPECTROSCOPIST 2000-22

Corixa Corporation, located in Seattle, Washington, an area with abundant cultural and recreational opportunities, has an opening in its Protein Chemistry Group for a **SCIENTIST** to perform protein identification and characterization by mass spectrometry. The successful candidate will work within a team-based environment and be responsible for the characterization and identification of proteins from complex and enriched mixtures using high-sensitivity MS. By effective integration of MS techniques, the candidate will contribute to the discovery of novel biological activities and characterization of disease-relevant biological systems. The position requires a Ph.D. in biochemistry or related field and more than two years of experience. Proficiency in techniques associated with protein identification by mass spectrometry, including HPLC, peptide analysis by mass spectrometry, and computer-based data analysis, is essential. Experience in the analysis of subpicomole levels of proteins by ESI-ion trap mass spectrometry is highly desirable. Excellent communication skills are required for interacting with Corixa Corporation's research staff. Corixa offers an attractive compensation and benefits package and a progressive work environment. Please apply by May 28, 2000, to: **Corixa Corporation, Attention: 2000-22, 1124 Columbia Street, Suite 200, Seattle, WA 98104. FAX: 206-754-5715. Website: www.corixa.com.** Equal Opportunity Employer.

RESEARCH NEUROPATHOLOGIST

The Stanley Foundation Research Programs, a non-profit institution supporting research on the neurobiology of severe mental illness, seeks a Board-eligible or Board-certified Neuropathologist (M.D./Ph.D. preferred) to conduct research on a large, well-characterized postmortem collection. The laboratory is in the Uniformed Services University of the Health Sciences in Bethesda, Maryland, and is associated with multidisciplinary research groups at USUHS, NIH, and Johns Hopkins Medical Center. Demonstrated competence in molecular biological techniques (in situ hybridization, quantitative PCR, and gel electrophoretic techniques) is required. Academic appointment at USUHS is possible. Salary commensurate with prior experience. Please forward curriculum vitae to:

**Maree Webster, Ph.D., Director
Stanley Foundation Brain Research Laboratory
Uniformed Services University of the
Health Sciences
Department of Psychiatry
4301 Jones Bridge Road
Bethesda, MD 20814**

SCIENTIST AND POSTDOCTORAL positions are available in a biopharmaceutical company. Interested applicants with Ph.D. degrees and training in one or more of the following research areas are invited to apply: molecular biology, immunology, biochemistry, pharmacology, and chemistry. Please send curriculum vitae with three references to: **Dr. A. Young, Lorus Therapeutics Inc., Sunnybrook and Women's College HSC, 2075 Bayview Avenue, Room S115, Toronto M4N 3M5 Ontario, Canada. FAX: 416-488-8099; e-mail: ahyoung@lorusthera.com.**

RESEARCH ASSISTANT/TECHNICIAN needed to study the molecular genetics of DNA methylation, using the model plant *Arabidopsis thaliana*. Research background and B.S. or M.S. in biology or related field required. Salary commensurate with experience. Send résumé, description of research experience, and the names and addresses of three references to: **Steve Jacobsen, Department of MCD Biology, UCLA, P.O. Box 951606, Los Angeles, CA 90095-1606. E-mail: jacobsen@ucla.edu.** Laboratory website: <http://www.lifesci.ucla.edu/mcdbio/html/jacobsen/index.html>.

POSITIONS OPEN

Tribeca Pharmaceuticals, Inc., is a New York City biotechnology company developing small molecule therapeutics against infectious diseases. Tribeca currently has two technician positions starting immediately in the herpes virus target development group:

LABORATORY TECHNICIAN

Qualified candidates should have a B.S. in the biological sciences or at least two years of industrial experience. This individual must demonstrate the ability to provide basic scientific and organizational skills for laboratory operation.

SENIOR RESEARCH TECHNICIAN

Qualified candidates must have a B.S./M.S. degree in the biological sciences with at least four years of laboratory experience in molecular biology. Previous experience with gene cloning and expression are essential; protein purification experience will be beneficial.

Qualified candidates should send résumés, references, and salary requirements by May 12, 2000, to:

**Dr. Andrew Marchini
Tribeca Pharmaceuticals, Inc.
180 Varick Street, Sixth Floor
New York, NY 10014**

PROGRAM DIRECTOR ANIMAL REPRODUCTION/ANIMAL GROWTH AND NUTRIENT UTILIZATION

The National Research Initiative (NRI) Competitive Grants Program of the U.S. Department of Agriculture seeks a qualified scientist to serve as Program Director for grants administration in animal reproduction, growth, and nutrient metabolism. The incumbent will develop, implement, and manage programs, policies, and procedures for competitive research grants. Applicants must have an advanced degree with major study in general animal science or veterinary medicine or related disciplines such as animal agriculture, molecular genetics, reproduction, endocrinology, physiology, growth biology, or nutrient metabolism. *Candidates must be U.S. citizens.*

Applications must be postmarked by May 31, 2000. For program information, contact: **Dr. Peter Johnson; Telephone: 202-401-1896; e-mail: PJohnson@reeusda.gov.** For information on application procedures, contact: **USDA's Human Resource Division; Telephone: 202-720-6130 or website: <http://www.ars.usda.gov/afm/hrd/vacancy/SOM-0643.htm>.** USDA is an Equal Opportunity Employer.

ZOOPLANKTON ECOLOGIST

The University of North Carolina at Greensboro seeks a senior-level Zooplankton Ecologist for appointment in the Biology Department with a distinguished record that merits appointment as a tenured **FULL PROFESSOR**. We seek an individual who will complement current strengths in our Department and whose experience ranges from physiological to ecosystem ecology and includes both basic and applied limnology. Curriculum vitae, statements of teaching and research interests, representative reprints, and names/addresses of three references should be sent to: **Dr. Parke A. Rublee, Zooplankton Ecology Search Committee, Department of Biology, University of North Carolina at Greensboro, P.O. Box 26174, Greensboro, NC 27402-6174.** Review of applications will begin May 9, 2000, and continue until position is filled. For information about us, please visit website: www.uncg.edu/bio. Equal Employment Opportunity/Affirmative Action; Women/Minorities/Veterans/Disabled.

SCIENTISTS: Biotechnology Foundation Laboratories at Thomas Jefferson University currently have several open positions for Scientists with extensive experience in plant molecular biology. The successful candidates should be able to work independently and conduct research in plants as vectors for biomedical products, including plant-based oral vaccines. E-mail your résumé to: ydubrovi@hendrix.jci.tju.edu or FAX to: 215-923-6786. Equal Opportunity Employer.

EUROPEAN OPPORTUNITIES



Cytos Biotechnology AG is a highly innovative, young and successful biotech company focusing on the identification and generation of novel protein drugs as well as the development of vaccines. We are expanding our research programmes in these areas and are seeking imaginative, resourceful and highly motivated scientists to join the research teams in our Zürich and Konstanz area facilities. Research positions may be at the Postdoc level (two years initial appointment) or as staff scientist, depending on the level of experience. A research record in immunology or neurobiology would be advantageous and strong communication skills are essential.

Molecular Biologists

Multiple positions open for scientists to develop and conduct protein-based and cell-based screening assays in our drug discovery platform. These openings require experience in cDNA library construction, mammalian cell culture and protein expression analysis.

Protein Biochemists

Join a multidisciplinary team to work on projects involving recombinant DNA, cell culture, eukaryotic protein expression systems, protein purification and characterization using immunological assays.

Virologists

Several openings are available for scientists with extensive experience in molecular virology and preferably with alphavirus-based protein expression systems.

Flow Cytometry Specialist

In our new research facility in Konstanz, we have an excellent opportunity for a flow cytometry operator to perform a pivotal role in the screen development process of our drug discovery program. The candidate will be required to perform daily sterile sorting of pools and single cell clones, maintaining quality control of cell sorting procedures, analyzing/interpreting data and recommending sorting strategies to researchers.

Cytos offers a stimulating and exciting working environment and competitive salaries. If you wish to join our young scientific team, please submit your complete application (in English or German) to: **Dr. Martin F. Bachmann, Cytos Biotechnology AG, Wagistrasse 21, CH-8952 Zurich-Schlieren.**

For further information visit our website: www.cytos.com.



HIV Pathogenesis Research Group Leader and Junior Scientists

The University of Miami School of Medicine, together with the VA Medical and Research Service, seeks to fill the positions for a **GROUP LEADER** and **TWO JUNIOR FACULTY** members active in research related to the pathogenesis of HIV / AIDS. The appointments will be made in the Departments of Microbiology and Immunology and Medicine, with the expectation of major commitment to research. The Group Leader is expected to have an M.D. or M.D./Ph.D. degree with an established record of productivity and funding in HIV-related research. One of the Junior recruits will have an M.D. degree and fill a joint, clinical/research-oriented position with the University and the VA Hospital. The second Junior Faculty member will hold a Ph.D. or M.D. degree. The group will maintain a strong basic science focus while actively collaborating in translational research with large, well-funded clinical research programs. The group will augment and complement the AIDS-related malignancies group supported by the Sylvester Comprehensive Cancer Center and the Department of Microbiology and Immunology.

The University and VA offer a generous start-up package and excellent benefits in an active, research-oriented environment, with considerable strength in immunology and apoptosis, as well as clinical and population-based research.

Please send curriculum vitae and names of references to:

Eckhard R. Podack, M.D., Chair
HIV Search Committee
Department of Microbiology and Immunology
University of Miami School of Medicine
P.O. Box 016960 (R-138)
Miami, FL 33136
E-mail: epodack@miami.edu

The University of Miami is an Equal Opportunity Affirmative Action Employer.



UNIVERSITY OF
RHODE ISLAND

Dean, College of the Environment and Life Sciences

The newly formed College of the Environment and Life Sciences (CELS) at the University of Rhode Island seeks applications and nominations for an innovative Dean who will provide leadership in advancing exciting ongoing initiatives in research, teaching and outreach. The College features unparalleled strengths in marine, coastal and environmental programs.

New research initiatives currently being advanced in CELS include environmental biotechnology, fisheries and aquaculture, and sustainable communities. The unique departmental composition of CELS - Biochemistry, Microbiology Molecular Genetics; Community Planning and Landscape Architecture; Environmental and Natural Resource Economics; Fisheries, Animal and Veterinary Science; Food Science and Nutrition; Geosciences; Marine Affairs; Natural Resources Science; and Plant Sciences - brings together an extraordinary breadth and depth of expertise dedicated to marine, coastal, and environmental policy and science. Teaching initiatives include a variety of Partnerships that incorporate vertically integrated team learning, a commitment to experiential learning, and the development of learning communities. The Coastal Institute, the Agricultural Experiment Station, Sea Grant and Cooperative Extension are resources dedicated to supporting the research and outreach initiatives of the marine and environmental programs at URI.

The University of Rhode Island is a land-, sea-, urban-, and space grant institution enrolling approximately 13,700 undergraduate and graduate students with about 600 full-time tenure track faculty. The Dean is charged with providing the leadership and vision, as well as facilitating the strategic planning necessary to develop and enhance the quality of a broad range of teaching, research, and outreach activities of the College.

The Dean reports to the Provost/Vice President for Academic Affairs, and is expected to work collaboratively with other colleges, particularly the Graduate School of Oceanography, to further build on strengths in the study of marine and coastal environments; forge strong partnerships with local industries and governmental agencies, participate actively in extramural fund-raising efforts for the College; and advocate for the College. Candidates must have an earned doctorate commensurate with the rank of professor, success in obtaining nationally competitive extramural and research funding, and a commitment to undergraduate and graduate education.

Review of applications will begin on June 15, 2000 and continue until position is filled. Submit a letter of application and resume to: **Dayle Joseph, EdD, Search Committee Chair, Log #191197SM, University of Rhode Island, P.O. Box G, Kingston, RI 02881.** For further information, including a complete position description, see www.edc.uri.edu/celsdean, www.uri.edu/human_resources or e-mail: dayle@uri.edu.

The University of Rhode Island is an AA/EEO employer and is committed to increasing the diversity of its faculty, staff and students. Persons from under-represented groups are encouraged to apply.

POSITIONS OPEN

COMPUTATIONAL CHEMIST

Cerep, Inc. is a drug discovery biotechnology company in Redmond, Washington, operating as a wholly owned subsidiary of Cerep SA, a publicly traded company in France. We are currently seeking an individual to join our team as a Computational Chemist. The Computational Chemist will join an exciting team developing a next-generation Web-based tool for predictive analysis of *in vivo* and *in vitro* pharmaceutical drug properties from calculated molecular descriptors.

The successful candidate is required to have a background in physical chemistry with an understanding of the mechanisms of molecular interactions, techniques of conformational sampling, and optimization algorithms. The successful candidate's skills should include SAR modeling; data mining techniques; 3-D pharmacophore descriptors; MSI, Cerius2; SDK; and software development. Pharmaceutical industry or postdoctoral experience of one to four years is desired. In addition, the successful candidate will have scientific degree qualifications, preferably Ph.D., in computational chemistry; excellent interpersonal skills; exceptional analytical skills; a high degree of self-motivation; and ability to work as a proactive team member.

Cerep, Inc. offers a competitive total compensation package as well as an environment conducive to personal and professional growth. Please send your confidential curriculum vitae with salary requirements to the following e-mail address: n.legresley@cerep.com. To learn more about Cerep, please visit our website: <http://www.cerep.com>. Cerep is an Equal Opportunity Employer.

COLLECTION SCIENTIST YEAST GENETICS

The American Type Culture Collection, serving as one of the world's largest and most diverse repositories of biological materials, is seeking a highly qualified individual to assume responsibility for the development and maintenance of the collection, to include culture acquisition, characterization, authentication, preservation, maintenance, and distribution. Ph.D. in genetics or related scientific discipline and a minimum of two years of applied yeast genomics experience or M.S. with eight years of experience required. Successful candidate will possess the ability to conceive, plan, and conduct independent research, computer analysis of results, and management of living genetic stocks. Interested candidates should mail letter of interest and résumé, including salary history, to:

American Type Culture Collection
Attention: HR/CSYG
10801 University Boulevard
Manassas, VA 20110
FAX: 703-365-2735
E-mail: employment@atcc.org
Website: www.atcc.org

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

SENIOR RESEARCH ASSOCIATE AND RESEARCH ASSOCIATE POSITIONS Center for Advanced Research in Biotechnology (CARB)

CARB invites applications for a Senior Research Associate and Research Associate positions. Candidates with research interests in theory, modeling, and informatics of molecular recognition with applications to drug design, chemical separations, etc. See website: www.carb.nist.gov/gilson.html for further information. CARB is located in the Maryland biotechnology corridor, in close proximity to the NIH, NIST, and Washington, D.C. To apply, please send curriculum vitae and cover letter describing your interests and goals and have two to three letters of reference by May 5, 2000, to: Michael K. Gilson, CARB, 9600 Gudelsky Drive, Rockville, MD 20850. E-mail: gilson@umbi.umd.edu. CARB is an Equal Employment Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

POSITIONS OPEN

THE INSTITUTE OF PACIFIC ISLANDS FORESTRY

Three research positions. The Institute of Pacific Islands Forestry, Pacific Southwest Research Station, U.S. Department of Agriculture Forest Service, seeks (1) a **HYDROLOGIST** with training in wetland ecology to be based in Honolulu, Hawaii, and to conduct research on the hydrology of mangroves and freshwater wetlands in Micronesia and Hawaii; (2) an **ECOSYSTEMS ECOLOGIST** to be based in Hilo, Hawaii, and to conduct research on ecosystem attributes that confer resistance or susceptibility of Hawaiian forests to invasion by nonindigenous plant species and on impacts of invasive species on ecosystem processes; and (3) a **PHYSIOLOGICAL PLANT ECOLOGIST** to be based in Honolulu, Hawaii, and to conduct research on plant-environment and plant-plant interactions that enhance or inhibit the reestablishment, long-term survival, and sustainability of forest vegetation that provides services and goods valued by society. All three positions are GS-11/12 with a salary range of \$39,187 to \$61,040 plus 15 percent cost-of-living allowance in Hilo and 25 percent cost-of-living allowance in Honolulu. Applicants must be U.S. citizens. Vacancy announcements that include qualification requirements and application procedures are available on the U.S.A. Jobs website: www.usajobs.opm.gov and from: Personnel Management, Pacific Southwest Research Station, P.O. Box 245, Berkeley, CA 94701. Telephone: 510-559-6300; FAX: 510-559-6352; e-mail: emcalfc@fs.fed.us; Attention: Hydrologist, PSW/DEMO-249-00 or Ecosystem Ecologist, PSW/DEMO-250-00 or Physiological Plant Ecologist, PSW/DEMO-248-00. Questions regarding the hydrologist position should be directed to: Dr. Katherine Ewel; Telephone: 808-522-8230, extension 109; e-mail: kewel@fs.fed.us. Those regarding the ecosystem ecologist should be directed to: Dr. Julie Denslow; Telephone: 808-933-8121, extension 16; e-mail: jdenslow@fs.fed.us. Those regarding the physiological plant ecologist position should be directed to: Paul Scowcroft; Telephone: 808-522-8232, extension 107; e-mail: pscowcroft@fs.fed.us. Deadline for applications is June 1, 2000. USDA is an Equal Opportunity Employer.

PHARMACEUTICAL

At Centocor, a wholly owned subsidiary of Johnson & Johnson, we are creating, acquiring, and marketing cost-effective therapies that yield long-term benefits for patients and the health care community at large. Our products, developed through monoclonal antibody and DNA-based technology, help physicians deliver innovative treatments that work to restore patients' quality of life.

SENIOR RESEARCH SCIENTIST: Will design and perform research activities related to immunology, autoimmunity, oncology, and/or infectious diseases with a specific focus on factors that affect B lymphocyte proliferation and differentiation. Requires Ph.D. and a minimum of two to five years of experience. Managerial background and radioactivity and biohazard training necessary. Code: 230-00-JC-01A.

ASSOCIATE SCIENTIST: Will perform all aspects of monoclonal antibody assays, EIAs, RIAs, and flow cytometry. Requires knowledge of aseptic technique and basic cell culture skills and familiarity with robotic/automated equipment and scientific applications, HPLC, and spectrophotometers. B.S. with two to four years of experience or M.S. with zero to one year experience necessary. Code: 277-00-LU-01A. Centocor offers compensation packages in accordance with its leadership role in health care technology. To apply, please send résumé with appropriate code to: Human Resources, Centocor, 200 Great Valley Parkway, Malvern, PA 19355. FAX: 610-651-6330; e-mail: jobbank@centocor.com. For more information or a listing of other positions now available, please visit our website: www.centocor.com. Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.

POSITIONS OPEN

RESEARCH SCIENTIST: STAFF POSITION NEURODEGENERATIVE DISEASE

Immediate opening for a Research Scientist to develop *in vitro* and *in vivo* models of neurologic disease to examine the utility of growth factors for therapeutic intervention. Our laboratory investigates the cellular mechanisms leading to neuron and glial damage and the mechanism(s) by which insulin-like growth factor I (IGF-I) protects these cells from apoptotic death. The successful candidate will possess a Ph.D. in neuroscience or closely related field and have at least two years of postdoctoral experience in signal transduction and/or molecular neuroscience. Generous staff benefits and salary commensurate with experience. Please submit curriculum vitae, a letter describing your interests and relevant experiences, and the names of three references by only one of the following routes to: Eva L. Feldman, M.D., Ph.D., Department of Neurology, University of Michigan, 4414 Kresge III, 200 Zina Pitcher Place, Ann Arbor, MI 48109-0588. FAX: 734-763-7275; e-mail: efeldman@umich.edu. The University of Michigan is an Equal Opportunity Employer.

SENIOR SCIENTIST POSITION (REPOST) RADIOCHEMISTRY

Program lead for development of research program capitalizing on radioanalytical infrastructure, including technical staff supervision. Requiring Ph.D. (in hand by hire date) in chemistry, health physics, radioecology, or related field plus five years of research in actinide radiochemistry, isotope geochemistry, radioecology, radioactive waste technology, or related discipline. Peer-reviewed publication and demonstrated generation of extramural funding. Résumé review begins June 5, 2000. See website: <http://www.cemrc.org> for detailed position description. Send detailed résumé and list of four references to: Dr. Marsha Conley, Director, Carlsbad Environmental Monitoring and Research Center, New Mexico State University, 1400 University Drive, Carlsbad, NM 88220. E-mail: kyoung@cemrc.org. Position is contingent upon continuation of funding. Offer is contingent upon certification of eligibility for employment in the United States. New Mexico State University is an Equal Opportunity/Affirmative Action 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. Send curriculum vitae and three letters of reference to: Seattle Biomedical Research Institute/University of Washington, Job 2000-9, 4 Nickerson Street, Seattle, WA 98109. E-mail: jobs@sbri.org. Equal Opportunity Employer.

POSTDOCTORAL or ASSOCIATE RESEARCH POSITION available for a project involving transgenic and knockout mouse models in vascular biology and atherosclerosis. Must have Ph.D. from U.S. or U.S.-equivalent university and minimum two years of experience in advanced molecular biological techniques. Send curriculum vitae and three references to: Dr. Ira Tabas, Division of Molecular Medicine, Columbia University, 630 West 168th Street, New York, NY 10032. E-mail: iat1@columbia.edu. We are an Equal Opportunity/Affirmative Action Employer.

POST-DOCTORAL FELLOWSHIPS IN SCIENCE, ENGINEERING AND MEDICAL SCIENCE

THE CLAUDE HARRIS LEON FOUNDATION

The Trustees of the Claude Harris Leon Foundation have established postdoctoral fellowships in Science, Engineering and Medical Science at South African universities. The fellowships will be available from January 2001 for two years and are valued at R70,000 per annum with an additional R10,000 contributed towards the fellow's running expenses.

For details and access to the application form, please contact the following website: www.leonfoundation.co.za or Mrs Tanya Stone, PO Box 13187, Mowbray 7705, Cape Town, South Africa. Telephone and fax: +27 21 531 6910 and e-mail: tanya@conferencewise.co.za

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**POST-DOCTORAL POSITION
in Biochemistry and enzyme purification**
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**POST-DOCTORAL POSITION
in Molecular Biology**
(Muscle specific gene promoter studies) Ref. B

You will join an expanding and multidisciplinary team pursuing the assessment of new pharmacological targets

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CEDEX 09, FRANCE.

The positions are fixed term contracts: 18 months.

MEDIASYSTEM



Max Planck Institute

for Evolutionary Anthropology

Associate Research Professor (C3) position Department of Primatology

Applications are invited for a 5 year position with strong likelihood of tenure in the Department of Primatology of the newly founded Max Planck Institute for Evolutionary Anthropology in Leipzig, Germany. This Institute currently comprises 4 departments (primatology, evolutionary genetic, linguistic, comparative and development psychology) for an innovative and integrated approach to the questions about human origins. We are looking for an outstanding candidate to lead an active, independent research program on the behavioural ecology of Great Apes. The focus of the department of Primatology are questions related to the evolution of sociality and the evolution of intelligence/culture by means of integrated field studies and genetic analyses. For further information on our research see <http://www.eva.mpg.de/primat.html>

Applications with curriculum vitae, a list of publications and research plan should be submitted to Christophe Boesch, Personnel Administration, Max Planck Institute for Evolutionary Anthropology, Inselstrasse 22, 04103 Leipzig, Germany, no later than June 30, 2000.

POSITIONS OPEN

DIRECTOR CENTER FOR HEALTHY AGING

Oregon Health Sciences University seeks a Director for a new Center for Healthy Aging. The Center is designed to become a premier institute providing vision, leadership, and coordination of resources for the advancement of gerontological science, education, and innovative care delivery models.

The Director will oversee all aspects of the Center, providing leadership in the development of geriatrics and gerontology universitywide and fostering integrated, collaborative, and interdisciplinary efforts in research, teaching, and patient care. Qualifications include doctoral-level education in health sciences, gerontology, or a related field and at least 10 years of progressively responsible leadership experience in an academic institution, health system, service agency, or research organization with a focus on aging.

For more information, please forward your curriculum vitae to: **Oregon Health Sciences University, Attention: Roslyn Elms Sutherland, Ph.D., SN-5N, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201-3098. Telephone: 503-494-4325; FAX 503-494-7783; e-mail: elmsuthe@ohsu.edu.**

SCIENTIFIC LIAISON HIV VACCINE TRIALS NETWORK

Position open for a medical research professional with training in clinical trials/clinical development to work on a new NIH-supported HIV vaccine clinical trials group. Ideal position for an individual who is committed to helping develop clinical trials on a global basis for HIV vaccines. Will assist principal investigator and other senior investigators in data analysis, trial design, and implementation. Excellent collaborations with scientists at Fred Hutchinson Cancer Research Center and University of Washington are available. Position commensurate with experience; salary dependent on experience plus excellent benefits. **INSTRUCTOR/ASSISTANT PROFESSOR**-level candidates preferred. Interested candidates may submit curriculum vitae and three letters of reference by May 31, 2000, to:

Lawrence Corey, M.D.
Head, Program in Infectious Diseases
Fred Hutchinson Cancer Research Center
1100 Fairview Avenue North
P.O. Box 19024, D3-100
Seattle, WA 98109-1024

FHCRC is an Equal Opportunity/Affirmative Action Employer. FHCRC is building a culturally diverse workforce and strongly encourages applications from female and minority candidates.

POSTDOCTORAL POSITIONS UNIVERSITY OF CALIFORNIA, IRVINE (UCI)

Two Postdoctoral positions are available in the Department of Pharmacology at UCI. Areas of research include the function of novel membrane proteins (enzymes and transporters) and the pharmacology of endogenous cannabinoid compounds (*Science* 277:1094, 1997; *Nature* 388:773, 1997; *Nature* 394:277, 1998; *Nature Neuroscience* 2:358, 1999). Individuals should possess a Ph.D. or M.D. degree with experience in molecular biology or biochemistry or molecular pharmacology. Salary will be commensurate with training experience. Please send curriculum vitae to: **Prof. D. Piomelli, Department of Pharmacology, MSR II, University of California, Irvine, CA 92697-4625. UCI is an Equal Opportunity Employer committed to excellence through diversity.**

Two **POSTDOCTORAL POSITIONS** in DNA viruses and cancer available at University of Pennsylvania. Position #1: transactivation and tumorigenesis by adenovirus. Position #2: antiviral targets of KSHV. Experience in transcription or replication is desirable. See website: <http://biochem.dental.upenn.edu/~robbslab>. Send curriculum vitae and names of three references to: e-mail: ricciardi@biochem.dental.upenn.edu.

POSITIONS OPEN

CURATORIAL ASSISTANTS INVERTEBRATE ZOOLOGY Natural History Museum of Los Angeles County

Openings exist for two full-time positions as Curatorial Assistants in the invertebrate zoology section of the Natural History Museum of Los Angeles County. The successful candidates will divide their time among four major world-class collections (polychaete worms, echinoderms, mollusks, and crustaceans). Duties include sorting and identifying incoming and existing collections of marine invertebrates, assisting with the organization and computer cataloging of the collections, and assisting the curators and collection managers with other collection-related activities. Qualifications include training or experience in invertebrate zoology plus a strong interest in natural history, marine invertebrates, and museum collections. Preference will be given to applicants with strengths or experience in working with marine annelids, echinoderms, mollusks, or crustaceans; graduate training/experience is preferred but not mandatory. The starting salary will be competitive plus excellent benefits (dental, health, life, retirement). Closing date is June 15, 2000. Applications should consist of current curriculum vitae plus names and addresses of three references. Please address all applications and inquiries to: **Dr. Kirk Fitzhugh, Research and Collections, Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA U.S.A. E-mail: fitzhugh@bcf.usc.edu. The Natural History Museum is an Equal Opportunity Employer.**

ASSISTANT/ASSOCIATE PROFESSOR DEPARTMENT OF BIOCHEMISTRY

A faculty position is available within the Department of Biochemistry at Boston University School of Medicine. We are particularly interested in individuals who investigate mechanisms of gene expression and/or signal transduction as these relate to cell cycle control, differentiation, or development. Applicants should possess the Ph.D., M.D., or M.D./Ph.D. degree and a record of experience appropriate to the level of the position. Please send a résumé, a brief statement of research interests, and the names of three references to:

Chair, Search Committee
Department of Biochemistry
Boston University School of Medicine
715 Albany Street
Boston, MA 02118

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

A **POSTDOCTORAL POSITION** supported by NIH funding is available immediately to study SIV pathogenesis. Projects include efforts to define the role of viral variants in disease progression and to identify determinants of pathogenicity and understand how they enhance virulence (see *Nature Med.* 5:525; *J. Virol.* 72:245; *J. Virol.* 71:7629). A Doctoral degree with training in molecular biology required. Experience in molecular virology and/or immunology is desirable. This position is in the laboratory of **Jason Kimata, Ph.D.** Please send curriculum vitae and three letters of reference to: **Director of Human Resources (00-020S), Southwest Foundation for Biomedical Research, P.O.B. 760549, San Antonio, TX 78245-0459.**

POSITIONS OPEN

The Department of Surgery at the University of Texas Medical Branch (UTMB), Galveston, Texas, is seeking candidates for the position of **ASSISTANT PROFESSOR** in the tenure track. The successful candidate will be associated with the Gastrointestinal Research Interdisciplinary Program at UTMB. Candidates should be experienced in aspects of molecular biology, epithelial cell signaling, gene regulation, and genomics and should have a high degree of self-initiative and good interpersonal skills. Applicants should possess a Ph.D. and have at least two years of postdoctoral or equivalent experience and a strong publication record. Preference will be given to candidates interested in working in a highly collaborative, interdisciplinary environment. Responsibilities include collaboration with other faculty to complement and enhance multidisciplinary research efforts and productivity in epithelial cell signaling and gene expression. Current areas of interest include epithelial cell signaling, mechanisms of GI cancer cell proliferation, intestinal cell differentiation, GI inflammation and infection, gut peptide and receptor expression and signaling mechanisms, and the development of transgenic models of GI cancer and normal development. Successful candidates will be expected to establish and maintain independent, externally funded research programs. Candidates will be provided with generous start-up packages, competitive compensation and benefits, and modern laboratory space. Interested individuals should send current curriculum vitae, a concise statement of research interest and goals, and the names and addresses of three references to: **B. Mark Evers, M.D., Professor and Robertson-Poth Distinguished Chair, University of Texas Medical Branch, 301 University Boulevard, Galveston, TX 77555-0536. FAX: 409-747-4819. UTMB is an Equal Opportunity/Affirmative Action Employer; Minorities/Females/Disabled/Veterans. UTMB is a smoke-free/drug-free workplace and hires only individuals authorized to work in the United States.**

NEUROPHYSIOLOGIST/BIOMEDICAL ENGINEER

Huntington Medical Research Institutes (HMRI), a private research institute internationally recognized as innovators in neural prostheses, seeks a Ph.D. with training in electrical stimulation/recording in the central nervous system to participate in the development of neural prosthetic devices for spinal cord injury patients. The applicant must have experience performing survival neurosurgical procedures in either cats, dogs, or primates. The candidate must have a record of productivity and the potential to develop an extramurally funded program in his area of research. Individuals who have recently received a Doctorate are eligible to apply. Candidates must be U.S. citizens or permanent residents. Contact: **Huntington Medical Research Institutes, Neural Engineering Laboratory, 734 Fairmount Avenue, Pasadena, CA 91105. Telephone: 626-397-5851; FAX: 626-397-5857; e-mail: agneww@hmri.org. Contact: William F. Agnew, Ph.D. HMRI is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately for an individual with expertise in molecular biology, biochemistry, or immunocytochemistry to study cellular and subcellular events involved in inflammatory and epithelial changes in the lung following exposure to air pollutants. The studies utilize novel and innovative *in vivo* and *in vitro* approaches to examine biological responses. Participation in studies aimed at analyzing cytokines, cell adhesion molecules, cytoskeleton, inflammation, and epithelial in injury and immunological responses is expected.

Deepak K. Bhalla, Ph.D.
Department of Occupational and Environmental
Health Sciences
627 Shapero Hall
Wayne State University
Detroit, MI 48202
Telephone: 313-577-3980
E-mail: Deepak.Bhalla@wayne.edu

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POSITIONS OPEN

UCLA POSTDOCTORAL POSITIONS in epigenetics. Two positions are now available to study the molecular genetics of DNA methylation, using the model plant *Arabidopsis thaliana*. We are studying several epigenetic mutations that result in the stable hypermethylation or hypomethylation of particular floral regulatory genes. These epimutations are being used for classical genetic analysis to discover genes involved in the proper methylation of each locus. Projects available include the study of several genetic suppressors of the hypermethylated *superman* epialleles, as well as our ongoing characterization of a new family of putative de novo DNA methyltransferases. References: *Science* 277:1100-1103; *Current Biology* 10:179-186. See laboratory website: <http://www.lifesci.ucla.edu/mcldbio/html/jacobsen/index.html>. Send curriculum vitae, description of research experience, and the names and addresses of three references to: **Steve Jacobsen, Department of MCD Biology, UCLA, P.O. Box 951606, Los Angeles, CA 90095-1606. E-mail: jacobsen@ucla.edu.**

Positions available for highly motivated candidates at the **TECHNICIAN** and **JUNIOR SCIENTIST** levels in a small, rapidly growing biotechnology company focusing on the areas of cancer, vaccines, and virology. The company is based on Long Island across from the North Shore University Hospital campus (20 minutes from Manhattan). The company is also seeking a **SENIOR SCIENTIST** with postdoctoral training in one of the following disciplines: biochemistry, immunology, pharmacology, and/or cell biology. The ideal candidate should have a strong scientific background as well as good communication skills (verbal and written).

Please send curriculum vitae and a concise letter of introduction with an explanation of your qualifications and how you can contribute to this company to: **Andrew Lin, Esquire, Chief Operating Officer, International Bioimmune Systems, Inc., 225 West Community Drive, Suite 140, Great Neck, NY 11021. FAX: 516-773-8258.**

POSTDOCTORAL AND RESEARCH SCIENTIST POSITIONS available for highly motivated candidates to join a multidisciplinary group studying RNA-protein interactions involved in HIV-1 replication. Strong background in molecular and cell biology is required, and prior experience in gene expression at the cellular level is essential. Send curriculum vitae and names of three references to: **Dr. Tariq M. Rana, Department of Pharmacology, Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854. E-mail: rana@umdnj.edu; website: <http://lifesci.rutgers.edu/~molbiosci/Professors/rana.html>.**

Auditory neural networks: **POSTDOCTORAL POSITION** to study the structure and function of neural networks related to hearing, deafness, and plastic/adaptive changes. Experiments combine auditory physiology with state-of-the-art morphology, immunocytochemistry, and imaging. Emphasis is placed on synaptic organization and parallel processing by different neuron types. Send curriculum vitae and names of three references to: **Douglas L. Oliver, Ph.D., Department of Neuroscience, University of Connecticut Health Center, 263 Farmington Avenue, Farmington, CT 06030-3405. An Affirmative Action/Equal Opportunity Employer; Minorities/Females/Persons With Disabilities/Veterans.**

POSTDOCTORAL POSITIONS. (1) Identification of lipid biosynthesis targets for antimicrobial therapy using gene knockout mutants. Experience in lipid analytical methods desirable. (2) Biochemical and molecular and cell biological studies on chemokines and their receptors. Send curriculum vitae and three references to: **P. E. Kolattukudy, The Ohio State University; e-mail: kolattukudy.2@osu.edu. Equal Opportunity/Affirmative Action Employer.**

RESEARCH TRAINING FELLOWSHIP immediately available at Yale University. Faculty interests in physiology, cell, and molecular biology of epithelial cell function of digestive tract. Ph.D. or M.D. U.S. citizen or permanent resident visa required. Contact: **Dr. H. J. Binder or F. S. Gorelick; FAX: 203-737-1755; e-mail: ann.thompson@yale.edu.**

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.

<http://www.training.nih.gov>

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POSTDOCTORAL FELLOWSHIP position available at Yale University School of Medicine starting July 1, 2000, to join a laboratory studying the signal transduction events in growth-factor-mediated epithelial cell chemotaxis and tubulogenesis. Experience in protein assay and molecular biological techniques with background in cell biology and/or protein biochemistry preferred. Project involves examination of c-met receptor signaling in epithelial tubulogenesis, specifically determining the regulation of cell-cell and cell-substrate interactions. Experimental procedures will include expression of tagged signaling protein constructs for real-time confocal imaging of protein-protein interactions. Please send curriculum vitae and three references to: **Dr. Lloyd Cantley, c/o Denise Krause, Associate Administrator, Yale University School of Medicine, Section of Nephrology, P.O. Box 208029, New Haven, CT 06520-8029. E-mail: lcantley@caregroup.harvard.edu. Yale University is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are encouraged to apply.**

A **POSTDOCTORAL POSITION** is available starting immediately. This U.S. Department of Agriculture-funded position involves development of RNA ligands which inhibit virus replication, with the ultimate goal of expressing these ligands in transgenic sheep. Molecular biology and tissue culture experience is absolutely required; experience with SELEX and/or surface plasmon resonance/BIA is highly desirable. Please send curriculum vitae, *current vita status*, and three letters of reference to: **Dr. Robert V. Schoborg, East Tennessee State University, James H. Quillen College of Medicine, Department of Microbiology, Box 70579, Johnson City, TN 37614-0579. Telephone: 423-439-6295; FAX: 423-439-8044; e-mail: schoborg@etsu.edu. East Tennessee State University is an Equal Employment Opportunity/Affirmative Action Employer.**

Neurotransmitter transporter biophysics, genetics and regulation: Vanderbilt University School of Medicine. **Drs. Randy Blakely and Louis DeFelice** have immediate openings for **POSTDOCTORAL FELLOWS** to study the regulation, cellular imaging, and biophysics of cocaine and antidepressant-sensitive neurotransmitter transporter proteins. We are particularly interested in Fellows with a background and interest in patch clamp and cell/molecular/genetic approaches to channel, transporter, or receptor expression and trafficking. Applicants should electronically submit curriculum vitae and names of three references to: **Randy Blakely, Ph.D.; e-mail: randy.blakely@mcmail.vanderbilt.edu** or **Louis DeFelice, Ph.D.; e-mail: lou.defelice@mcmail.vanderbilt.edu. Vanderbilt University is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS, Weis Center for Research, Penn State: Positions available immediately in the laboratory of **David J. Carey, Ph.D.**, to study the mechanisms of growth factor signaling in Schwann cells. Expertise in primary cell culture, protein purification and characterization, or molecular biology preferred. Send curriculum vitae, brief description of research interest and experience, and names of three references to: **Julie A. Brosius (DJC), Position Number S-7370, Weis Center for Research, 100 North Academy Avenue, Danville, PA 17222-2600. Résumés accepted until July 1, 2000. Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION LUNG CANCER BIOLOGY

In a two-stage model of mouse lung carcinogenesis, inflammation is required in order for the second, promotion stage to occur. We are focusing on how eicosanoids (i.e., prostacyclin) regulate neoplastic growth. This project involves mouse work (i.e., injection, cell isolation, breeding, genotyping); molecular/biochemical studies with lung epithelial-derived cell lines; and genetic studies on the differential regulation of COX-1 and COX-2 expression. Funded by an NCI Cancer Pharmacology training grant; available July 2000. Please send cover letter (Attention: Al Malkinson), curriculum vitae, and three letters of recommendation to: **Soibhan Houston, Division Administrator, Medical Oncology, UCHSC, B-171, 4200 East Ninth Avenue, Denver, CO 80262. The University of Colorado Health Sciences Center is committed to Equal Opportunity and Affirmative Action.**

POSTDOCTORAL POSITION MOLECULAR CELL BIOLOGY

An NIH-funded Postdoctoral research position is available immediately to investigate the cellular physiology of STAT proteins in mammalian cells with an emphasis on elucidating mechanisms involved in plasma membrane to cytoplasm to nucleus transit of cytokine- and growth factor-activated STAT transcription factors. Ph.D. and a background in molecular biology and biochemistry are essential. Please send curriculum vitae and three references to: **Dr. Pravin B. Sehgal, Room 201, Basic Sciences Building, Department of Cell Biology and Anatomy, New York Medical College, Valhalla, NY 10595. E-mail: pravin_sehgal@nymc.edu.**

The Department of Physiology and Biophysics at the University of Colorado Health Sciences Center (UCHSC) seeks a **RESEARCH ASSOCIATE/INSTRUCTOR**. Duties include research and the teaching of graduate students and research Fellows. Requirements: Ph.D. in a biological science with one year of postdoctoral experience; expertise in electrophysiology and primary cell culture and experience with imaging techniques. Salary: \$30,000 to \$33,000 per year plus benefits. Contact: **Dr. Yiannis Koutalos, University of Colorado School of Medicine, Department of Physiology and Biophysics, Box C-240, 4200 East Ninth Avenue, Denver, CO 80262. E-mail: yiannis.koutalos@uchsc.edu. The UCHSC is committed to Equal Opportunity and Affirmative Action.**

NIH-funded **POSTDOCTORAL ASSOCIATE** position: University of Minnesota, Center for Immunology (website: www.borg.labmed.umn.edu/imm.html). The project involves unique functional and molecular assays to examine leukocyte adhesion molecule structure/function (*Cell* 92:809, 1998). 100% time; annually renewable. Must have completed a Ph.D. or equivalent foreign degree by start date and have experience in biochemistry or molecular biology. Send cover letter; curriculum vitae; and names, mail, and e-mail addresses of three references to: **Dr. Bruce Walcheck, University of Minnesota, 295J, AS/VM Building, 1988 Fitch Avenue, St. Paul, MN 55108. The University of Minnesota is an Equal Opportunity Educator and Employer.**

RESEARCH ASSOCIATE POSITION AVAILABLE IMMEDIATELY

For a Ph.D. in cell and molecular biology to evaluate and understand a molecular mark in cancer cell nucleus. Experience in immunohistochemistry and histology a plus. The laboratory is situated in the best part of downtown Chicago next to Lake Michigan, with active cultural and night life. Interested candidates, please contact: **Sui Huang, Department of Cellular and Molecular Biology, Northwestern University Medical School. Telephone: 312-503-4269; e-mail: s-huang2@nwu.edu.**

The Institute of Cancer Research
(University of London)

CRC Centre for Cancer Therapeutics, Sutton, Surrey

Team Leaders in Molecular/Cell Biology

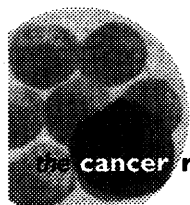
The Institute of Cancer Research is at the forefront of international cancer research and, with the Royal Marsden NHS Trust, forms the largest comprehensive cancer centre in Europe. The CRC Centre for Cancer Therapeutics (Director, Professor Paul Workman) is internationally recognised for its work in anticancer drug development and gene therapy. We are now seeking to appoint two highly motivated Molecular/Cell Biologists to lead teams based at our laboratories in Sutton.

The successful candidates will be expected to conduct excellent basic research, preferably in the areas of angiogenesis and apoptosis. This work should lead not only to an improved understanding of cancer biology, but also to the identification and selection of targets for the development of new cancer therapies. Candidates should be enthusiastic to see their results translated into drug discovery programmes in the Centre.

Appointments will be at Career Development level (equivalent to tenure track) or for established senior investigators at non-time limited level. Appropriate academic (Reader or Professor) appointments will be considered for suitably qualified individuals. Support posts and running costs will be provided.

Informal enquiries can be made to the Director, Professor Paul Workman (email: annf@icr.ac.uk).

To apply, please send two copies of your CV including the names and addresses of four referees to the Personnel Office, The Institute of Cancer Research, 123 Old Brompton Road, London SW7 3RP quoting reference A68. For a job description and person specification please call our 24 hr recruitment line on 020 7970 6061.
Closing date: 12th May 2000.



the cancer research campaign



winning over cancer

ETH ZÜRICH

The Swiss Federal Institute of Technology in Zurich invites applications for the position of a

Professor of Physical Chemistry

Applicants should preferably be active in the fields of nanophysical, nanoanalytical chemistry or single-molecule spectroscopy. Responsibilities include teaching the subjects of physical and analytical chemistry at both the undergraduate and graduate levels.

Please submit your application, together with a curriculum vitae and a list of publications, to the President of ETH Zurich, Prof. Dr. O. Kübler, ETH Zentrum, CH-8092 Zurich, no later than July 15, 2000. ETH Zurich encourages young scientists and female candidates to apply.



JOHANNES GUTENBERG-
UNIVERSITÄT MAINZ

Position available for a

Research Associate

ideally already possessing combined expertise in Molecular Biology/Carcinogen Metabolizing Enzymes/Carcinogenesis/Bioinformatics/DNA chip technology.

Salary according to experience
DM 75.000 to 150.000 (US\$ 37.500 to 75.000) before taxes per year.

Application with curriculum, publication list and photograph to

Prof. Dr. F. Oesch,
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PARIS - INSERM

Neurosteroids : Neuroprotection

One-Year engagement for
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Level:

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Topic:

Screening of steroids and analogues on binding to - and effect on - microtubule proteins

Intralab collaboration with molecular biologist

Background reference:

Our paper Murakami et al., *Proc. Natl. Acad. Sci.* 2000 99-5844

Contact:

baulieu@kb.inserm.fr or
fax: 33-1-45-21-19-40

POSITIONS OPEN

POSTDOCTORAL POSITIONS

Chromatin involvement in gene expression: A Postdoctoral opening exists to explore the mechanisms by which repressive chromatin is restructured and transcription is activated during seed embryogenesis (Li et al., *PNAS* 96:7104-7109, 1999). Experimental familiarity with cloning, chromatin protein analysis, and two-hybrid systems is essential. Familiarity with plant systems is desirable but not required.

Gene silencing: Lack or loss of transgene expression is often associated with epigenetic processes. A postdoctoral individual is needed to join a group exploring these processes and strategies to avoid them, primarily in rice (see Kumpatla et al., *Trends Plant Sci.* 3:97-104, 1998). Demonstrated experience with cloning and molecular analysis of transgenic materials is essential, as is a practical knowledge of plant transformation. Familiarity with bioinformatics and genomic strategies is highly desirable.

For more information, please contact: Dr. Timothy C. Hall, IDMB, Texas A&M University, College Station, TX 77843-3155. E-mail: tim@idmb.tamu.edu.

POSTDOCTORAL POSITIONS W. HARRY FEINSTONE CENTER FOR GENOMIC RESEARCH

Positions are available immediately to study chemical carcinogenesis, cancer chemoprevention, regulation of basic helix-loop-helix transcription factors, and GeneChip® analysis of drug efficacy and toxicity. Experience in molecular/cellular biology and cell culture techniques or xenobiotic metabolism and analytical chemistry is required. Graduates with a degree in biology, biochemistry, or toxicology are encouraged to apply. These positions are for one year with the possibility of renewal for up to three years. Interested individuals should provide their curriculum vitae and a list of three references to:

Dr. Thomas R. Sutter
University of Memphis
201 Life Sciences Building
Memphis, TN 38152-3560

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HEALTH RESEARCH ANALYSTS

ECRI, a nonprofit health services research organization, seeks individuals with the ability to work within a team-oriented "think tank" to assess the effectiveness of medical devices, drugs, and procedures. Ph.D. in life or social sciences, ability to critically assess study designs, excellent writing skills, and ability to work simultaneously on several projects. Knowledge of at least intermediate-level statistics, decision analysis, or computer modeling preferred. Qualified applicants must complete a 25-page test report for which there is a small honorarium. Résumés and cover letter to: Department CT, ECRI, 5200 Butler Pike, Plymouth Meeting, PA 19462. FAX: 610-567-1208; e-mail: hr@ecri.org. Equal Opportunity Employer/Affirmative Action.

POSTDOCTORAL POSITION available. Research includes the molecular analysis of the actions of Vitamin A and retinoic acid in cancer and development. Send curriculum vitae, names of three references, and a statement of research interests to: Dr. Lorraine J. Gudas, Department of Pharmacology, Weill Medical College of Cornell University (formerly Cornell University Medical College), 1300 York Avenue, New York, NY 10021. E-mail: ljgudas@med.cornell.edu; FAX: 212-746-8858. An Equal Opportunity Employer/Affirmative Action; Minorities/Females/Disabled/Veterans.

POSTDOCTORAL FELLOW at Yale University: position available immediately to study the role of mutagenesis in cancer. See *Proc. Natl. Acad. Sci. USA* 96:9580-9585. Experience in tissue cell culture, mutagenesis, and molecular biology is a plus. Send curriculum vitae, reprints, and the names of three references to: Dr. Joann B. Sweasy, Department of Therapeutic Radiology, Yale University School of Medicine, 333 Cedar Street, P.O. Box 208040, New Haven, CT 06520.

POSITIONS OPEN

POSTDOCTORAL POSITION MOLECULAR NEUROBIOLOGY

Postdoctoral position available immediately for studies of the molecular mechanisms of apoptosis/programmed cell death in animal models of Alzheimer's disease. We emphasize a well-characterized *in vivo* model of trans-synaptic apoptosis. Projects include animal surgeries, tissue preparation, laser-guided cell capture, and immunological and molecular methods of identifying genes in the cell death cascade, as well as DNA profiling/microarray methodologies for the identification of novel/unconventional genes. Applicants should have a Ph.D. or M.D. and published experience in cellular and molecular neuroscience. Send letter of interest, curriculum vitae, and at least two academic references to: Vassilis E. Koliatsos, M.D., Neuropathology Division, Johns Hopkins Medical Institutions, Ross Building, Room 558, 720 Rutland Avenue, Baltimore, MD 21205. E-mail: kolia@jhmi.edu.

POSTDOCTORAL FELLOWSHIP NATIONAL CANCER INSTITUTE

Postdoctoral positions available immediately in the Cell Signaling in Vertebrate Development section, Cancer and Developmental Biology laboratory group, Division of Basic Sciences, National Cancer Institute, under the supervision of Dr. Terry Yamaguchi. The laboratory focuses on the role of Wnt signaling pathways during mouse embryogenesis. We are using genetic, molecular, and embryological techniques to understand the mechanisms underlying cell fate specification and cell proliferation during gastrulation. Experience in molecular biology is required, and a background in embryology is preferred.

The laboratory is located at the NCI-Frederick Cancer Research and Development Center, Frederick, Maryland. The NCI offers competitive postdoctoral stipends (\$29,000 to \$36,000) and an excellent work environment. Interested applicants should send curriculum vitae, a brief description of research interests and experience, and contact information for three references to: Dr. Terry Yamaguchi, Cancer and Developmental Biology Laboratory, NCI-Frederick Cancer Research and Development Center, P.O. Box B, Building 539, Room 131, Frederick, MD 21702. E-mail: tyamaguchi@ncifcrf.gov.

Unique POSTDOCTORAL RESEARCH/TEACHING opportunity in a primarily undergraduate setting. Two-year position is a balance of research in yeast vesicular transport and teaching in cell/molecular biology/genetics. Research involves mutant characterization and gene cloning studies. The successful candidate will teach one course per semester. Position will begin August 2000 or January 2001. Salary: \$25,000 plus benefits. Send curriculum vitae, three letters of reference, and statement of research and teaching interests to: E. Gharakhanian, Ph.D., Department of Biological Sciences, California State University at Long Beach, Long Beach, CA 90840-3702. E-mail: eghara@csulb.edu. Review of applications begins June 1, 2000.

THREE POSTDOCTORAL POSITIONS Protein Crystallography/Biochemistry

Three Postdoctoral positions are available immediately to study protein-protein interactions involved in the signal transduction for cell survival and cell death. Individuals with experience in protein crystallography or protein biochemistry are encouraged to apply. Please send curriculum vitae and names and addresses of at least two references to: Dr. Hao Wu, Department of Biochemistry, Cornell University Medical College, 1300 York Avenue, New York, NY 10021. Telephone: 212-746-6451; FAX: 212-746-8875; e-mail: haowu@mail.med.cornell.edu; website: <http://venus.med.cornell.edu/>.

POSITIONS OPEN

POSTDOCTORAL OPPORTUNITY MOLECULAR TOXICOLOGY Oak Ridge National Laboratory (ORNL) ORNL Postdoctoral and Postgraduate Research Program

Applications are invited for a Postdoctoral position in the Environmental Sciences Division at the ORNL. The successful candidate will work with a multidisciplinary team to conduct research on the effects of environmentally relevant chemicals on gene expression in the zebrafish embryo. The project will examine molecular and physiological mechanisms underlying the toxic responses of the intact organism to energy-related environmental contaminants. Experience in gene transfer techniques, including microinjection, is highly desirable.

A Ph.D. in molecular biology, cellular biology, or a related field is required. Candidates should have a working knowledge of at least two of the following disciplines: zebrafish developmental biology, comparative genomics, molecular toxicology, or ecotoxicology. Strong written and oral skills are required. More information on ORNL and its divisions can be found at websites: <http://www.ornl.gov> and <http://www.esd.ornl.gov>.

This appointment will be for one year and renewable for up to two years. It is offered through the ORNL Postdoctoral Research Associates Program. Interested candidates should complete and submit an "Advertised Position" application for the ORNL Postdoctoral Research Associates Program. This application and a complete description of the program are available at website: <http://www.ornl.gov/orise/edu/postgrad/ornlpdfoc.htm>. A copy of the application can also be obtained by contacting: Bonnie DeJarnette; Telephone: 423-241-5386; e-mail: dejarneb@ornl.gov. Specific technical questions related to this position should be directed to: Dr. Mark Greeley, ORNL; Telephone: 423-574-9387; e-mail: greeleys@ornl.gov. Please reference Project #ORNL00-09 when applying for this position. An immediate starting date is preferred. The program is open to all qualified U.S. and non-U.S. citizens without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.

The Center for *In Vivo* Microscopy at Duke University invites applications for a two-year appointment at the level of **POSTDOCTORAL FELLOW** in the Department of Radiology. Candidates should have a Ph.D. in pulmonary physiology and/or biomedical engineering. The successful candidate will join a team of scientists engaged in leading-edge pulmonary imaging using magnetic resonance microscopy and hyperpolarized gas. Experience in pulmonary function and/or pathology is desired. Familiarity with computer technology and imaging systems will be beneficial. For more information about the work, please see our website: <http://www.civm.mc.duke.edu>. Interested parties should send a résumé and names of at least two references to: Sue Behringer, Box 3302, Duke University Medical Center, Durham, NC 27710. E-mail: seb@orion.mc.duke.edu; FAX: 919-684-7122. Duke is an Equal Opportunity Employer.

The Center for *In Vivo* Microscopy at Duke University invites applications for a **POSTDOCTORAL FELLOW** for a two-year appointment in the Department of Radiology. Candidates should have a Ph.D. in pathology, molecular biology, or toxicology. The successful candidate will join a team of scientists engaged in understanding the potential of magnetic resonance histology in applications of morphologic phenotyping, toxicology, and pathology. Familiarity with computer technology and imaging systems will be beneficial. For more information about the work, please see our website <http://www.civm.mc.duke.edu>. Interested parties should send a résumé and names of at least two references to: Sue Behringer, Box 3302, Duke University Medical Center, Durham, NC 27710. E-mail: seb@orion.mc.duke.edu; FAX: 919-684-7122. Duke is an Equal Opportunity Employer.

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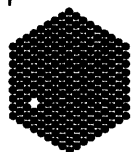
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e-mail: gillian.gold@srgexecutive.co.uk



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EMBL

European Bioinformatics Institute (EBI)
Hinxton, nr Cambridge, UK

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

MACROMOLECULAR STRUCTURE DATABASE SCIENTIST/SOFTWARE ENGINEER (ref. no. 00/28)

The European Macromolecular Structure Database (EMSD) <http://msd.ebi.ac.uk> is the European Centre for the deposition and distribution of data about the three dimensional structures of biological macromolecules obtained by X-ray crystallography, NMR and Electron Microscopy. The EMSD team works alongside the EMBL nucleotide sequence database, EnsEMBL genome annotation project, and TrEMBL/SWISS-PROT protein sequence teams at EBI to provide an international core of data management and analysis in biology and genetics. The EMSD has extensive collaborations with other structural database groups, in particular the Research Collaboratory for Structural Bioinformatics (RCSB) PDB group in the USA. A major new database system for data from structural biology has been developed by the EMSD project and a vacancy now exists for a Macromolecular Structure Database Scientist who will take a central role in the further development of this system and the software tools to exploit it.

Applicants should have a university degree in the chemical, physical, biological, mathematical, or computer sciences. They will have extensive experience in software development. Expertise in protein structure and relational database systems development will be an advantage, as will be knowledge of internet client/server tools.

Closing date for applications: 15.05.2000

For more information about the EBI, please refer to: <http://embl-heidelberg.de/>, <http://www.ebi.ac.uk/> and <http://msd.ebi.ac.uk>.

Informal enquiries to Geoff Barton, (geoff@ebi.ac.uk).

EMBL is an inclusive, equal opportunity organisation.

To apply please send your CV, quoting ref. no. 00/28, to:

The Personnel Section, EMBL, Postfach 10.2209, D-69012 Heidelberg, Germany. Fax: +49 6221 387555, email: jobs@embl-heidelberg.de

POSITIONS OPEN

POSTDOCTORAL POSITION

A Postdoctoral position is available immediately for a physicist to develop methodology for functional and metabolic brain imaging. The Brain Imaging Division provides the opportunity to conduct research in the investigation of neuropsychiatric disorders. Clinical MR scanners from Siemens and GE, as well as animal scanners up to 12 Tesla, are available. A 4 Tesla whole-body scanner will be installed in September 2000. The project involves: (1) development of multi-echo fMRI techniques and metabolic imaging techniques with real-time data processing, (2) development of real-time fMRI analysis tools on parallel computers, and (3) clinical research studies of using this technology. The successful candidate will have a Ph.D. in physics, computer science, or a related discipline. Experience with fMRI, pulse sequence development (preferably on Siemens or GE equipment) and image processing is required. Please send full curriculum vitae and brief statement of research interest, plus names and addresses of three references, to: **Dr. Stefan Posse, Brain Imaging Research Program, Department of Psychiatry and Behavioral Neurosciences, Wayne State University School of Medicine, UHC-9B, 4201 St. Antoine Boulevard, Detroit, MI 48201. Telephone: 313-577-1227; e-mail: sposse@brain.wayne.edu. Wayne State University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS Systems/Computational Neuroscience

Active sensation: How do animals extract a stable percept with actively moving sensors? We address this issue in the context of the rat vibrissa sensorimotor network. Experimentalists are invited to join an effort that utilizes (1) extracellular recording from behaving animals, (2) optical recording with anesthetized animals, (3) intracellular recording from brain slice, and (4) modeling at the level of coupled oscillators. Candidates should have experience with electrophysiology.

In vivo imaging of blood flow: Nonlinear optical processes, including multiphoton excited fluorescence and third harmonic generation, are utilized to study flow in capillaries, blood oxygenation, and vascular activation. Candidates should have experience with optics and/or physiology.

Interested applicants should send a succinct letter of interest, curriculum vitae, one or more representative publications, and the names of three references to: **Dr. David Kleinfeld, Department of Physics, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0319. E-mail: dk@physics.ucsd.edu; website: <http://physics.ucsd.edu/neurophysics>.**

POSTDOCTORAL POSITION: University of Medicine and Dentistry of New Jersey. Postdoctoral position available to study nuclear mRNA processing and export in yeast. The main goal of the project is to elucidate the role of posttranslational protein modification in this process. Interested candidates should send their curriculum vitae and the names of three references to: **Dr. Michael Henry, Department of Molecular Biology, University of Medicine and Dentistry of New Jersey, Two Medical Center Drive, Stratford, NJ 08084. E-mail: henrymf@umdnj.edu; website: <http://www.umdnj.edu/hrweb/>.** Regrettably, we can respond only to those candidates chosen for an interview. *UMDNJ is an Affirmative Action/Equal Opportunity Employer, Minorities/Females/Disabled/Veterans, and a member of the University Health System of New Jersey.*

A POSTDOCTORAL POSITION available immediately to study the mechanisms of neuroprotection and regeneration by neurotrophic factors in neurodegenerative diseases. For further information, see *Neurobiol. Dis.* 6:335-346, 1999. Send curriculum vitae and a brief letter of research interests and goals to: **Ralph W. Kuncl, M.D., Ph.D./Masako M. Bilak, Ph.D., Johns Hopkins University School of Medicine, Department of Neurology, Meyer 5-119, 600 North Wolfe Street, Baltimore, MD 21287. E-mail: Mbilak@mail.jhmi.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITION NEUROANATOMY/SYSTEMS NEUROBIOLOGY

Postdoctoral position available immediately for studies on the developmental and injury-related vulnerability of neurons in the limbic system to programmed cell death as it pertains to Alzheimer's disease and other amnesic disorders. We emphasize a well-characterized *in vivo* model to transsynaptic apoptosis in adult rats and developmental models involving maternal deprivation. Projects include animal surgeries, manipulations of pups and mothers, pharmacological methods, immunohistochemistry *in situ* hybridization and tract tracing, and image analysis/quantitation and behavioral analysis. Depending on interest, extension into molecular techniques is very possible. Applicants should have a Ph.D. or M.D. and published experience in systems neuroscience. Send letter of interest, curriculum vitae, and at least two academic references to: **Vassilis E. Koliatsos, M.D., Neuropathology Division, Johns Hopkins Medical Institutions, Ross Building 558, 720 Rutland Avenue, Baltimore, MD 21205. E-mail: koliaet@jhmi.edu.**

POSTDOCTORAL FELLOW ANTISOCIAL DRUG DEPENDENCE GENETICS AND TREATMENT

Studies of the behavioral genetics of clinical psychiatric disorders require interdisciplinary teams of molecular geneticists, behavioral geneticists, and clinical researchers. The Institute for Behavioral Genetics, the Department of Psychiatry's Division of Substance Dependence, and the Department of Molecular, Cellular, and Developmental Biology of the University of Colorado (Boulder and Denver campuses) are collaborating in twin and adoption studies and QTL sibling analyses of clinical populations aimed at defining genetic mechanisms and gene loci contributing to the clinical conditions of conduct disorder, antisocial personality disorder, and substance dependence. Positions are open for Postdoctoral Fellows in psychiatry, psychology, behavioral genetics, and molecular genetics, supported by National Institute on Drug Abuse. Senior faculty include **T. J. Crowley, P. D. Riggs (Psychiatry); J. K. Hewitt, R. P. Corley, M. C. Stallings (Behavioral Genetics); E. A. Whitmore (Clinical Psychology); L. L. Thompson (Neuropsychology); and K. S. Krauter (Molecular Genetics).** Interested U.S. citizens and permanent residents should send a letter of interest, including career goals, curriculum vitae, and three letters of reference, to: **Thomas J. Crowley, M.D., Department of Psychiatry, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Box C268-35, Denver, CO 80262.** Review of applications will continue until a suitable candidate is identified and the position filled. *The University of Colorado is an Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS available to investigate cytokine and HIV receptor recognition and activation mechanisms and structure-based antagonism. Studies will involve such activities as expression and mutagenesis of recombinant proteins, miniprotein mimetics design and synthesis, epitope randomization via phage display, optical biosensor interaction analysis, and signal transduction studies at the molecular and cellular levels. Individuals with experience in protein chemistry and molecular cloning techniques are encouraged to apply. Cell biology and/or peptide chemistry experience a plus. Send curriculum vitae and names of three references to: **Irwin Chaiken, Department of Medicine, University of Pennsylvania School of Medicine, 909 Stellar Chance Laboratories, 422 Curie Boulevard, Philadelphia, PA 19104-6100. FAX: 215-349-5572; e-mail: chaiken@mail.med.upenn.edu.**

SYMPOSIUM

SYMPOSIUM ON ORGANISMS WITH SLOW AGING (SOSA): September 22-23, 2000 (Friday and Saturday), at the Andrus Gerontology Center, University of Southern California, Los Angeles, California. Speakers and poster session will examine evidence that some organisms have evolved very slow rates of aging with antiaging mechanisms that pertain to human aging. Speakers will identify sources of data and biological specimens to stimulate research and to attract new researchers and trainees. Program, registration, and hotel information is given at **web-site: <http://www.usc.edu/dept/gero/CBPH/SOSA>.** For further information, please contact: **Dr. Caleb E. Finch; e-mail: cefinch@usc.edu; Telephone: 213-740-1756.**

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EUROPEAN OPPORTUNITIES



INSTITUT PASTEUR

PROJECT LEADER POSITION

The Institut Pasteur is a leading French centre for research in life science and public health. The Institut is offering laboratory space, financial support, and research facilities to recruit an outstanding **SCIENTIST** in epidemiology of emerging diseases. The candidate should have an outstanding track record of original research and is expected to establish an independent programme of research at an internationally competitive level. Applicant should submit complete curriculum vitae with names and contact details of several references and a concise description of research interests to:

**Pr André Klier
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25-28, rue du Docteur Roux
75724 Paris Cedex 15 (France)
FAX: (33) 1 40 61 35 90
E-mail: aklier@pasteur.fr**

INDEPENDENT GROUP LEADER POSITION

**UNIVERSITY OF GENEVA
Department of Molecular Biology**

Research position available for a **JUNIOR SCIENTIST** in a **TENURE-TRACK POSITION** to lead small independent research group in the area of molecular/cell biology. Areas of specialization may include cellular structures, molecular genetics, gene expression. Applicants must have a strong commitment to teaching and research. Teaching in French is required, but a period of adjustment can be granted. Starting date: January 1, 2001.

Please send curriculum vitae, statement of research interests, and the names and addresses of three references by July 31, 2000, to: **Chairman of the Department of Molecular Biology, University of Geneva, 30, Quai Ernest Ansermet, CH 1211 Geneva 4, Switzerland. FAX: +41 22 702 6868. Women are encouraged to apply.**

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to study HOX gene function in limb development. NIH-funded project focuses on role of conserved amino acids in HOX proteins on transcriptional activity and cofactor function. Molecular biology experience is essential, and yeast two-hybrid experience is desired. Send curriculum vitae, statement of research interests, and names of three references to: Jeffrey Innis, M.D., Ph.D., Department of Human Genetics, Box 0618, University of Michigan Medical School, Ann Arbor, MI 48109-0618. FAX: 734-763-3784; e-mail: innis@umich.edu.

CONFERENCES

PROTEIN STABILITY CONFERENCE July 13-15, Breckenridge, Colorado

Topics include: folding, aggregation, amyloidosis, pressure effects, processing, formulation development, transgenic production, and *in vivo* stability. Information at website: <http://www.uchsc.edu/sp/sp/biotech/protstab00.html> or e-mail: john.carpenter@uchsc.edu.

GLOBAL OPPORTUNITIES



RESEARCH SCIENTIST (CARDIOVASCULAR GENE THERAPY) CARDIOVASCULAR RESEARCH INSTITUTE

National University Medical Institutes
Faculty of Medicine
National University of Singapore

We seek experienced Research Scientists for the Cardiovascular Research Institute in the Faculty of Medicine, National University of Singapore. The successful applicant (Ph.D. holder or equivalent) should have a strong background in cardiovascular research. Successful applicants will head a cardiovascular and gene therapy group with interest in angiogenesis, prevention of myointimal hyperplasia, and cell transplantation. Details of NUMI's operations, research staff, and programs may be viewed at website: <http://numi.crc.nus.edu.sg>. Please submit a statement of research interests, curriculum vitae, list of publications, and the names of three references to: The Director, National University Medical Institutes, Blk MD11, 10 Medical Drive, #02-01 Clinical Research Centre, Singapore 117597. For informal discussion, please contact: Dr. Reida El Oakley, Cardiac Department, National University Hospital of Singapore, 5 Lower Kent Ridge Road, Singapore 119074. Telephone: 772-5214; FAX: 872-2998; e-mail: eloakley@hotmail.com. Only short-listed applicants will be notified.

FRESHWATER ECOLOGY

Applications are invited for the tenured position of **LECTURER** (equivalent to U.S. ASSISTANT PROFESSOR) in the Department of Zoology. Preference will be given to applicants with interests in freshwater ecology (running waters, lakes, and wetlands) and experience in field-based research. The minimum qualification on appointment is a Ph.D. or equivalent degree, although candidates with postdoctoral experience are likely to be preferred. The appointee will be expected to contribute to team-taught courses in ecology and general biology at the undergraduate level and to teach at postgraduate level in his/her field of specialization. The appointee will be required to develop an active research program and to supervise postgraduate students. Full details from e-mail: h.reeves@regy.canterbury.ac.nz. Further information at website: www.zool.canterbury.ac.nz. Applications, quoting Position Number Z0112, close on June 15, 2000, with: Human Resources, University of Canterbury, Private Bag 4800, Christchurch, New Zealand. Equal Opportunity Employer.

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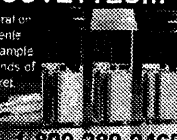
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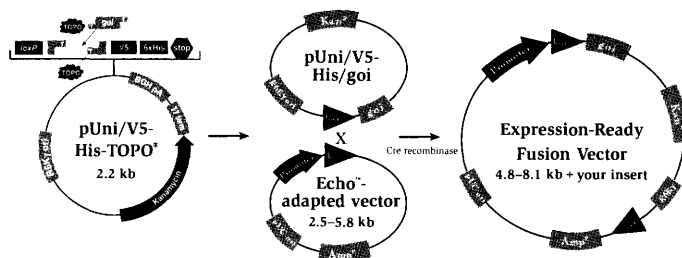
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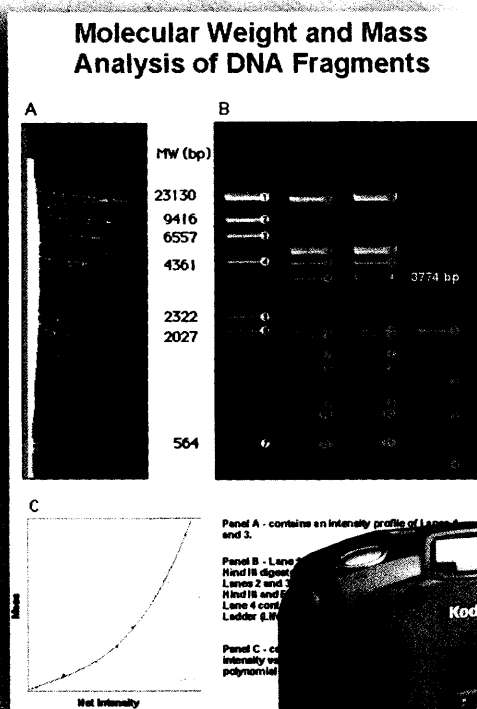
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