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MATHEMATICAL ART

It is rare to find a scientific software package that is best known for being a fun way to make artistic creations. Graphing Calculator is one such product. Originally shipped free with every early Power Macintosh computer, Graphing Calculator is now a commercially available program for both Mac and Win-

dows operating systems (program is called NuCalc for the latter).

The original idea behind Graphing Calculator was to use the power of modern computers' central processors to make two-dimensional (2D) depictions of graphs of functions. To simulate 3D graphs on the 2D screens, the program rotated the plots about a point, allowing the user to see a graph from a constantly varying perspective. That function is still a major part of Graphing Calculator, which has expanded to incorporate many new capabilities.

Some of the added features in the current version (3.1) include numerous coordinate systems (rectangular, polar, spherical, cylindrical), numerical solutions to equations (found by clicking on curves), simplification of symbolic expressions, graphing of symbolic derivatives, and contour plots (shown as implicit curves, densities, 3D surfaces, or inequalities).

The complexity of the equations handled by the program is impressive, as are the instantaneously created plots, which range from bizarre to beautiful. Because creating equations on a computer screen can be difficult, the program comes with a keypad containing common tools for constructing equations.

Graphing Calculator errs on the side of presentation when it plots functions. For instance, 3D axes are drawn without numbers or even tick marks. Numerical axis bounds are shown in a window separate from that of the plots. Users can zoom in and out on plots and can even graph multiple functions by using color coding for each one.

The program comes complete with numerous examples and a basic tutorial, and most of its capabilities can be mastered in a few minutes. One surprising shortcoming of the program is its limited options for the export of plots. These include only QuickTime movies and RTF (a Microsoft Word format), besides the standard Graphing Calculator option. No high-quality print format, such as EPS, is supported, so users are pretty much restricted to seeing things on the computer screen.

The most notable aspect of the Graphing Calculator is its ability to unleash the creative powers of mathematical explorers, though it may also be of some benefit educationally. This program's undeniable appeal would be greatly enhanced by expanded printing options in the next version.

—Kevin Ahern

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CONTINUED ON PAGE 1546

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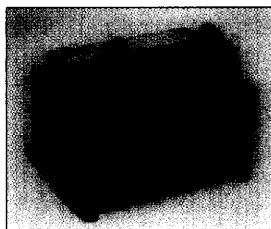
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ography written for scientists who are responsible for an organization's cryopreservation program. The manual is organized into three primary sections: an overview of cryobiology and cell and tissue preservation, a guide to selecting and operating cryopreservation equipment, and a guide to installation, operational qualifications, and safety.

LITERATURE

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B IOTECHNOLOGY AND PHARMACEUTICAL COMPANIES ON THE WEST COAST FUEL A GROWING JOB MARKET FOR BIOSCIENTISTS, ESPECIALLY THOSE WITH INDUSTRIAL EXPERIENCE. THIS ARTICLE EXAMINES CAREER OPPORTUNITIES ON THE WEST COAST AS DESCRIBED BY A CONSULTANT, A HUMAN RESOURCES DIRECTOR AT A START-UP, AND OTHERS. BY MIKE MAY

According to the experts interviewed here, jobs for bioscientists continue to grow on the West Coast. Moreover, the continued evolution of the West Coast biotechnology and pharmaceutical industries should trigger a need for new employees for some time. The specific skills needed, however, will vary with the maturity of any given company. Overall, though, hotspots of bioscience jobs dot the coast.

The San Francisco Bay area, for example, hosts a broad collection of companies. They range from large pharmaceutical businesses—including Bayer Corporation's worldwide Biotechnology Headquarters and biological products manufacturing site—to more specialized operations—including Aesculap, the world's largest supplier of surgical instruments. In the Bay area, you can also find smaller bioscience manufacturing companies as well as businesses related to the Human Genome Project. The Bay area also spawns a continually growing crop of small, new companies. According to one management level bioscientist, "We have start-ups forming almost every day here."

The West Coast can also offer a unique work environment at some companies. One manager in human resources said, "The West Coast is less caught up in formalities. We look out for creative thinkers and—maybe—unusual characters." Nonetheless, don't let that persuade you to show up for a West Coast interview in surfing attire. Several people interviewed here mentioned the need for professionalism in both dress and etiquette—even if you can hear waves breaking on a beach during your interview. So, shine up your best shoes and see what the West Coast might offer you.

ALAMEDA, California: Calypte Biomedical Corporation develops, manufactures, and markets diagnostics for a wide range of medical conditions, including HIV and sexually transmitted diseases. This work requires employees with varied skills. According to Toby Gottfried, chief scientific officer, "We have a great demand for people with experience in quality control, regulatory issues, and quality assurance." In the West Coast job market in general, Gottfried said, "For lower level positions—tech positions, quality control, manufac-

- » AlleCure Corporation
- » Avigen, Inc.
- » Aviron
- » Biotech Employee Development Coalition
- » Calypte Biomedical Corporation

turing, research and development—there is great demand, especially for people with some experience." For upper level positions, such as directors and managers, Gottfried said that the demand varies from one company to the next.

To land one of the West Coast positions in the biotechnology or pharmaceutical industry, Gottfried said, "It is important to have some experience so that your sincerity for approaching work can be documented." She explained that many young people come to a company, go through the

training period, and then leave. Consequently, Gottfried said, "We are now very careful in who we hire, and previous jobs can tell us who might stay around." In addition to using past employment to your benefit, Gottfried pointed out that the best job candidates familiarize themselves with a company ahead of time, so that they understand the company's objectives.

The West Coast also offers some unique challenges to job seekers. Gottfried said, "I think the high cost of living on the West Coast is an issue." She added that some companies do not pay enough for their employees to really live in the area. For example, she said, "The high cost of buying a house on the West Coast has turned away

Mike May is a freelance writer based in Clinton, Connecticut, U.S.A.

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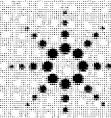
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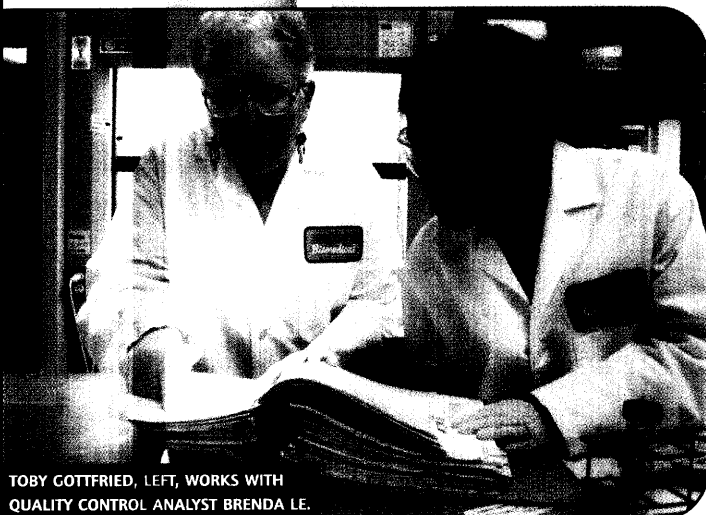
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a smorgasbord for bioscientists



TOBY GOTTFRIED, LEFT, WORKS WITH QUALITY CONTROL ANALYST BRENDA LE.

some very good job candidates at many companies." As a result, late-stage job interviews for upper level positions at Calypte include tours of the local real estate market to make sure that candidates get a real picture of life on the West Coast.

MOUNTAIN VIEW, California: Aviron is developing live vaccines against various viral infections including cytomegalovirus, herpes, influenza, and Epstein-Barr Virus. According to George Kemble, director of research, Aviron often needs people with background in cell culture, molecular biology, and virology, including molecular virology. In general, he said, "We have interest in people who can characterize complex biomolecules." He added, "We're especially interested in people who want to work on the kind of science that our company does."

In searching for potential employees, Kemble and his colleagues seek a variety of qualities. He said, "If someone is coming from a Ph.D. and postdoc, we want lots of good training, some publications, and someone with a skill set that interests us." Still, Kemble looks for more than technical capabilities. He said, "For our employees, it's important that they are flexible. We need a sense that they can work within a team and adapt to new situations as they arise." Previous industrial experience is also a plus, because Kemble pointed out the value of working in an integrated environment. At Aviron, projects

always involve teamwork. Even a small research project involves two to four scientists, according to Kemble. Medium to large projects at Aviron bring together even more people, probably from different departments. Consequently, Kemble said, "Team based work is a huge component here."

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In thinking of valuable qualities in a job candidate, Kemble said, "One thing that impresses me is the ability to respond to questions." Handling questions can be stressful for some—especially during a job interview—and Kemble carefully watches a candidate's response. Keep in mind that Kemble does not necessarily expect a precise response and even said that acknowledging the lack of an answer is fine. He simply looks for a comfortable reply. He said, "If someone can respond to questions easily, it is very appealing."

VALENCIA, California: At AlleCure Corporation—a start-up company that develops therapies for immune system imbalances—job candidates must show how they can help this company grow. Candice Byrne, director of human resources, said, "The job market on the West Coast is robust and extremely competitive." She said that successful applicants need the scientific skills, but they must also fit into the corporate culture. For example, Byrne said, "In our company, you must be able to multitask. Flexibility and creativity are key attributes." Although you don't need to be a complete jack-of-all-trades, people who land jobs at AlleCure must be team players, and that demands strong interpersonal skills.

If you go for an interview at AlleCure—or any other company, really—be prepared. That means researching the company before you arrive for the interview. Byrne said, "At the interview, you should be able to tell us what solutions you could bring to our company. You must be able to communicate how your prior experience and education will help us achieve our objectives."



AlleCure frequently needs people with backgrounds from a bachelor's degree to a Ph.D. Moreover, these positions can come in a wide range of areas, including cell biology, chemistry, high throughput techniques, preclinical development, and more. Nevertheless, Byrne added: "Nearly 99 percent of our positions require previous experience in industry." Although a postdoctoral position or an industrial internship could get you into an entry level position as a scientist at AlleCure, people with background in industry tend to land the upper level jobs there. Byrne said, "We need people who know what to do, or are capable of learning quickly!"

The start-up environment, though, tends to be fairly adaptable. For example, Byrne said, "If we don't have a position today but see top talent, we might create something for that person. We believe in opportunistic hiring." Likewise, AlleCure wants more out of employees than just experience. Byrne said, "We seek people who are risk-takers and have fun. We have fun because we hire people who enjoy what they do."

Byrne also sees some unique features in West Coast jobs. She said, "I've selected talent for companies beyond the West Coast, and I

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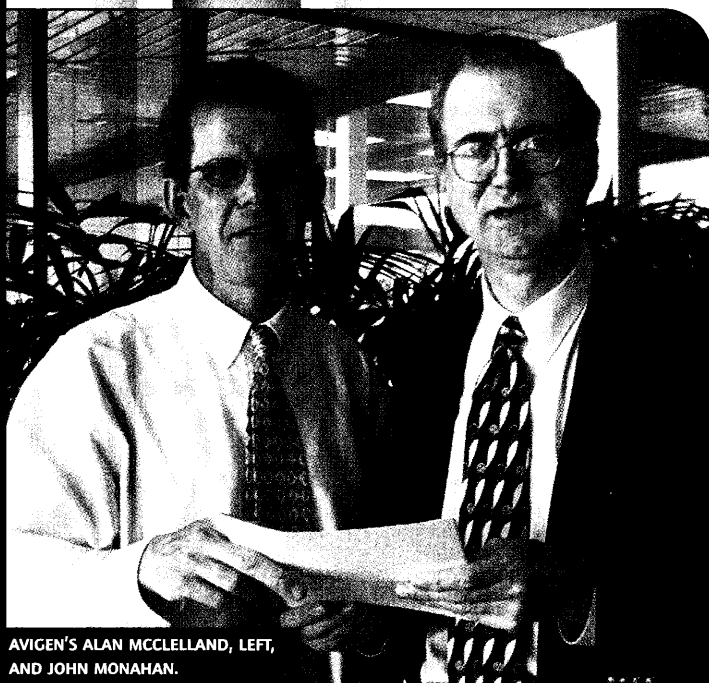
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A v i r o n



AVIGEN'S ALAN MCCLELLAND, LEFT,
AND JOHN MONAHAN.

think this area is more focused on balancing the high demands of a competitive industry with individual needs." She added: "West Coast companies tend to put more emphasis on the total person."

ALAMEDA, California: Avigen, Inc., uses adeno-associated virus to develop gene therapy products. Alan McClelland, vice president of research and development, said, "Avigen runs research and development projects plus programs that are mature enough to include product development." As this company looks toward clinical programs, different job needs emerge. McClelland said Avigen needs people with technical skills in many areas, including analytical development, immunology, *in vivo* modeling, molecular biology, process scale-up, toxicology, and virology. Overall, McClelland said that the job market "on the West Coast is probably more diverse than ever, because of continuing development and maturation of the biotech industry."

Avigen continues to search for scientists who do innovative research, but also wants people who can work in product development. McClelland said, "In a general sense, we're interested in strong technical scientists who can apply their skills to a product focus." For example, someone who can take a process from the bench scale to a manufacturing level is a major need at Avigen. Moreover, growth at Avigen spawns new areas to target for potential products. For instance, this company recently started a Parkinson's disease program, so they are looking for people with neurobiological skills.

Beyond scientific skills, John Monahan, chief executive officer, said, "Teamwork is very important." He added: "We need people with a can-do attitude, people who can roll with the punches." Employees at Avigen must also be willing to learn new skills. In fact, they could end up working on groundbreaking areas and pioneering new techniques.

west coast careers

A smorgasbord for bioscientists

Getting a job at Avigen comes easier to those who have already worked in industry. Monahan said, "For management or supervisory positions, previous experience in industry is almost a necessity." However, that criterion could be met through an industrial postdoctoral position. Despite the industrial focus, employees at Avigen explore other areas. McClelland said, "We encourage our scientists to go to meetings and publish papers. And there's a sense of a mission to make a difference in health care."

SAN DIEGO, California: The Biotech Employee Development Coalition (BEDC) serves as a human resources group for this industry. This association's co-president and an independent consultant who does recruiting, Steve Zug, said, "The job market here is pretty good. Some companies are struggling, but most are growing." Nevertheless, he did add that the job market in the San Diego area is somewhat slower than it was last year.

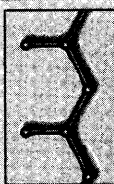
To be competitive in any job market, Zug said, you need an excellent attitude. He added: "When recruiting, I first look for a great attitude. People like working with others who make daily interactions enjoyable." Also, Zug said that San Diego remains dominated by smaller biotechnology companies, and they require flexible employees. Zug indicated that employers will ask: Can you handle diverse tasks and projects? He said that you could even be asked to work in closely related areas outside of your expertise. So showing your adaptability as well as any breadth from previous experience could prove extremely valuable.

Other characteristics can also help you get the job you want. Zug said that companies look for "make-it-happen kind of employees." He added that people who do the hiring will also consider whether you seem like a team player. In addition, Zug said, "For Ph.D.s, you must be well published in the field of your expertise."

Zug sees some evolution in biotech jobs around San Diego. He said, "I'm seeing more jobs on the development side these days. A lot of the smaller biotech companies are moving rapidly through the drug development stage, like Neurocrine Biosciences, and I expect even higher growth in this area." That should create jobs that involve expertise in bioanalytical, metabolism, manufacturing, and other drug development areas. Zug also pointed out that top jobs in the regulatory, clinical, and quality areas are also increasing.

He concluded: "I think there's still a growing market for science here. San Diego continues to be fertile ground for start-up biotech companies, so there will always be opportunities for both research and development positions." ■

For further valuable career features, go to sciencecareers.org, then click on Advice and Perspectives.



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You will lead all aspects of our regulatory activities. Specifically, you will develop regulatory strategies, ensuring compliance with FDA and GCP requirements, obtain clinical approval and the successful licensure of our products, and ensure compliance with all local, state, federal and international regulations concerning the testing, production, labeling, and marketing of our products. You will also coordinate all aspects of submissions; interface with the FDA and other regulatory authorities concerning protocols and amendments, adverse event reporting, statistical analysis and requirements for registration; manage the preparation of NDAs, annual reports and other FDA submissions; audit internal/external (CRO) programs, policies and records to ensure GCP compliance; and provide regulatory counsel to project teams, agencies and management. This position calls for a Ph.D. or equivalent in life sciences, 8-10 years of experience with clinical regulatory affairs, and proven expertise with small molecule drugs. Familiarity with biologics or pharmaceutical drugs, a thorough understanding of GCP requirements and FDA guidelines, experience preparing INDs and NDAs for pharmaceutical products, and excellent written/verbal communication skills are all required. (Job# SCIO222-DRA)

Director of Animal Physiology

Leading our Animal Physiology team, you will discover/develop antidiabetic drugs, manage/direct *in-vivo* evaluation of antidiabetic compounds, and characterize the mechanisms of action of antidiabetic compounds using standard & modified techniques in a variety of animal models. You will also assist with the preclinical development of lead compounds, help design early stage clinical trials, and evaluate possible in-licensing compounds. The position requires a Ph.D. in life sciences, 5-8 years' relevant experience, and excellent written/verbal communication skills. (Job# SCIO222-DAP)

Computational Biologists

As a key member of our Genomics team, you will assist with the discovery and validation of novel targets for drug discovery in the metabolic disease area, and help exploit proprietary tissue gene expression catalogs and custom Affymetrix GeneChip array data based on those catalogs. Novel gene annotation is the primary focus of our current bioinformatics effort, as is the development of a framework for gene annotation and expression data access and analysis. The position requires a BA/BS (MS/Ph.D. a plus) in biochemistry, molecular biology, computer science or related field, and 2 years of postgraduate experience with applied bioinformatics, including experience with public genome data, annotation resources and enterprise-wide bioinformatics tools (GCG, GenScan, Paracel/ GeneWise, etc.). PC proficiency with UNIX, relational databases, and at least one programming language applicable to bioinformatics (Perl, Java, Python, C++, etc.), and excellent written/verbal communication skills are essential. Experience with Oracle, WebObjects, and/or statistical tools is a plus. (Job# SCIO222-CB)

Research Associates, Insulin Resistance

The successful candidates will possess an MS or 3+ years of research experience, familiarity with molecular biology, cell biology, and biochemistry, and proven expertise with cDNA library synthesis, full length cDNA cloning, real time PCR, protein production/purification, cell culture, and cell based assays. Excellent written/verbal communication skills are a must. (Job# SCIO222-RAIR)

Research Scientists, Insulin Resistance

These positions require 3-5 years of postdoctoral research experience (diabetes or obesity preferred); familiarity with molecular biology, cell biology, biochemistry, and molecular endocrinology; expertise with signal transduction, transcription, vesicular trafficking, generation/analysis of rodent models of insulin resistance, gene expression profiling, and muscle or adipose cell biology; and excellent written/verbal communication skills. (Job# SCIO222-RSIR)

Research Scientists, Insulin Secretion

These positions require 3-5 years of postdoctoral research experience in the area of hormone or neurotransmitter secretion and familiarity with molecular biology, cell biology, biochemistry, and molecular endocrinology. Ideal candidates will have experience with functional characterization of molecules involved in the regulation of secretory processes and should have excellent written/verbal communication skills. (Job# SCIO222-RSIS)

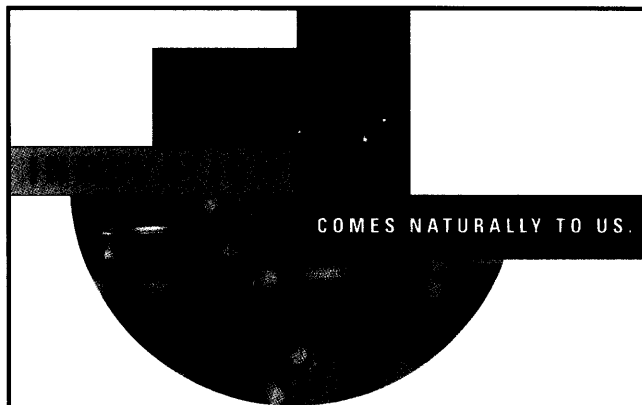
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Staff Scientist - Human Protease Enzymologist

Sr. Scientist - Bioinformatics

Sr. Scientist - Directed Evolution

Sr. Scientist - Inflammation

Scientist II - FACS Specialist

Scientist II - Organic Materials Chemist

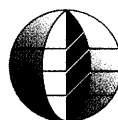
Scientist II - Bio-inorganic Chemist

Scientist II - Metabolic Modeler

Research Associate - Bioinformatics

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The successful candidate will explore the mechanisms through which inhaled and injected peptides/proteins elicit immunologic responses (particularly antibody responses). This position emphasizes the formulation and route of delivery aspects of immunogenicity. Involves determining the nature of the antibody responses with respect to isotypes and ascertaining whether such responses are benign or can be made benign. In addition, the chosen individual assesses the potential use of inhaled vaccines and vaccine adjuvants. The successful candidate must be laboratory oriented.

PHARMACOLOGIST/PHARMACEUTICAL SCIENTIST

The successful candidate will focus on the absorption of proteins and small molecules across the respiratory tract and lung tissue. Involves exploring the mechanisms of absorption of pure drugs, as well as seeking ways to increase lung residence time when desired. This position explores novel formulating technology (developed in collaboration with other pharmaceutical scientists) to enhance absorption or retain drugs in the lungs as desired. In addition, some work will focus on gastrointestinal absorption. This project is expected to entail in-vitro as well as in-vivo laboratory investigations. Laboratory orientation essential. An understanding of and experience with ex-vivo lung models is desirable.

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The successful candidate will focus on the pharmacokinetics, pharmacodynamics and metabolism of potential drugs delivered by inhalation and other routes of delivery. The primary project revolves around Inhale proprietary PEGylation technology and how different PEG types, sizes and structural positioning affect in-vivo drug stability, immunogenicity, bioavailability, and activity through various routes of administration. This project is expected to entail in-vitro as well as in-vivo laboratory investigations. Laboratory orientation essential. An understanding of respiratory biology and metabolism is desirable.

Each position level is commensurate with the experience and qualifications of the candidate and ranges from post doctoral to the Staff Scientist level. Qualified applicants should possess a minimum of a Ph.D. and 0-10 years of related experience.

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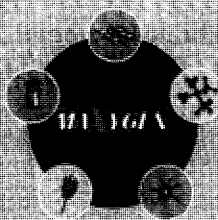
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Medarex is expanding its R&D programs at our state-of-the-art facility located in the heart of Silicon Valley. Opportunities are available for people who thrive working in an energized, creative, team-oriented environment. We are looking for highly motivated individuals to fill these positions that bring diverse perspectives to work toward our common objectives. We recognize success and provide opportunities for professional development to employees that make a difference.

Scientist/Senior Scientist, Molecular Biology, CA-600-02-09A

This candidate will lead a group focused on the engineering and expression of recombinant antibodies. Candidate should have a Ph.D. in molecular biology or related discipline and a minimum of two years post-doctoral experience. Additional experience in industry is preferred. A background in gene cloning, vector development, gene expression, cell transfection, mammalian tissue culture and immunology are desired.

Manager/Scientist, Hybridoma Research, CA-600-02-03

In this position the candidate will be responsible for running a subgroup within Hybridoma Research. Candidate will be in charge of the day-to-day activities, focused primarily on generating human monoclonal antibodies to targets identified by clients or in-house efforts. Some primary characterization of the antibodies is included. Minimum masters degree in biological science or related field with >5 years relevant independent work experience. Published work in immunological methods, hybridoma generation, antibody characterization and/or use of antibody to characterize antigen expression or function, preferred. Without publications, must provide other documentation of peer reviewed ability to be decision maker in immunological questions.

Associate Scientist, Protein Chemistry, CA-620-02-14

Candidate will work on research scale protein production by protein expression and purification. Candidate should have a Ph.D. in biochemistry or related field with one year post-doctoral experience. A background in membrane protein work and/or protein expression methods would be a real plus.

Scientist/Senior Scientist, Bio-conjugation Chemistry, CA-620-02-31

Candidate will work on developing antibody-drug and antibody-radio-nuclide conjugates for cancer. Candidate will have a Ph.D. in protein chemistry or bio-conjugation chemistry, with three or more years experience in industry or academic institution. Responsibilities include establishing Mab-drug and Mab-radioisotope pre-clinical research program in collaboration with internal and external researchers. Hands on experience with bio-conjugation chemistry and protein radio-labeling is necessary.

Scientist/Senior Scientist, Tumor Biology, CA-610-02-32

The successful candidate will be responsible for establishing and running *in vivo* mouse tumor models. Must have practical experience with xenograft and metastatic models of cancer, transfection and propagation of tumor cell lines *in vitro*, and assessment of tumor growth and inhibition *in vivo*. The candidate will be an integral member of a newly forming Mouse Disease Modeling group, and will be responsible for preclinical evaluation of antibody therapeutics. Position will report to the Associate Director of Animal Biology, and will be expected to prepare and present findings to upper management on a regular basis. This position requires a Ph.D. in Cancer Biology or related field, and at least 2 years of postdoctoral experience. Excellent communication skills and ability to work as a team member are required.

Research Associate, Molecular Biology, CA-600-02-09B

This position will focus on the cloning and expression of recombinant antibodies and antigens and the genetic engineering of transgenes. This position requires a related B.S. or M.S. and at least 3 years of relevant molecular biology experience. Experience in PCR, gene cloning, vector construction and sterile tissue culture is desired.

Research Associate, Protein Chemistry, CA-600-02-11

Responsibilities include but are not limited to setting up protein chemistry laboratory and assisting in monoclonal antibodies and recombinant protein purification and characterization. This position requires a BS/MS degree in chemistry/biochemistry or related field and at least 5 years of relevant laboratory experience. Hands on experience in techniques including SDS-PAGE, ELISA, Western Blotting, HPLC and various chromatographic methods is required. Knowledge in protein formulation is desirable.

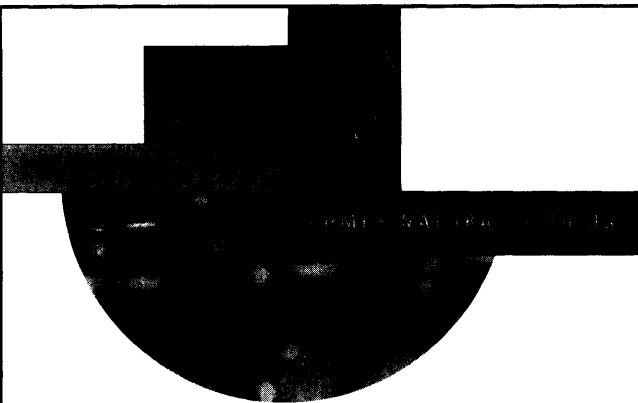
Research Associate, Conjugation Chemistry, CA-600-02-13

Responsibilities include but are not limited to establishing and implementing QC methods and acceptance criteria for raw materials including antigens and monoclonal antibodies. Compile QC data and generate QC reports to be used in decision-making by other scientific groups. Familiarity with protein characterization and knowledge of QC for research or GMP reagents. BS/MS degree in life sciences with a minimum of 3 years experience in a biotech industry, preferably in a QC setting.

Research Associates, Hybridoma Research, CA-600-02-25

We are looking for career-oriented people with experience in hybridoma generation, monoclonal antibody purification and characterization. Experience in all assays related to the field, ELISA, SDS-PAGE, Western blot etc. is required. Experience with *in vitro* functional assays and FACS is preferred. A BS/MS degree in life sciences or equivalent, with 2-4 years experience is required.

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Scientist II, Metabolic Modeler

Working in the Bioinformatics group, you will interact with molecular biologists and biochemists using your strong background in microbial physiology with an emphasis on metabolic modeling and cellular energetics. You will engineer a variety of microbial strains to produce biochemicals and develop models of cellular metabolism and regulation. You must be able to evaluate physiological, transcriptional and genomics data. Requires a PhD in Microbiology, Chemical or Biochemical Engineering and 2-4 years of experience in a related field. Excellent communication skills combined with a demonstrated record of accomplishments and the desire to understand metabolic pathways are essential. Job Code: PA-MM02-SCI

Sr. Scientist - Directed Molecular Evolution

You will lead our directed and molecular evolution research, overseeing a team of scientists working on several projects targeted at the evolution of proteins for industrial and pharmacological applications. You must have a strong understanding of scientific and patent literature in the field of protein engineering and evolution, and experience with a variety of *in vitro* and cell-based assays. Requires a PhD and extensive knowledge in high throughput methods, protein purification, enzyme kinetics and oncology. Excellent communication and computer skills are necessary and supervising experience is essential. Job Code: PA-10R02-SCI

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Benthic Invertebrate Zoologist

The Romberg Tiburon Center for Environmental Studies (RTC), a field campus of San Francisco State University located on San Francisco Bay, and the Department of Biology announce a tenure-track Assistant Professorship in Benthic Invertebrate Zoology.

We seek a field-oriented individual to complement the research and teaching interests of the Center's and Department's rapidly expanding staff (<http://rtc.sfsu.edu>; and <http://www.sfsu.edu/~biology>). The successful applicant should study benthic invertebrates from estuarine or coastal habitats. The position is broadly defined and areas of research are open and may include community ecology, evolutionary biology, physiology, or population dynamics. Applicants are expected to maintain externally funded research involving master's students and to interact with faculty and researchers at RTC and the Biology Department. Ph.D. required; postdoctoral experience preferred. Instructional responsibilities will include Invertebrate Zoology and undergraduate and graduate classes such as Introductory Biology, Marine Biology, Marine Ecology, and/or courses in the applicant's area of expertise.

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

Send curriculum vitae, a statement of teaching and research interests, selected reprints, and three letters of reference to: **Chair, Benthic Invertebrate Zoology Search Committee, Romberg Tiburon Center, 3152 Paradise Drive, Tiburon, CA, 94920**. Applications will be reviewed beginning March 15, 2002.

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Genicon Sciences

Senior Director - Research

Genicon Sciences is an established private biotech company located in San Diego focusing on the research and development of reagent assay "tool kit" systems and drug discovery assays based upon proprietary signal generation and detection technology and other proprietary assay chemistries to enable the burgeoning areas of microarrays, microfluidic and other nano-technologies in the life sciences field of drug discovery and research including genomics, proteomics, HTS and systems (cellular) biology.

The successful candidate will oversee and manage all aspects of the Company's day-to-day research activities including technical direction, planning, organizing, implementing and reporting research outcomes in accordance with the Company's goals. This includes accountability for simultaneous management of multiple research projects/programs; recruiting, hiring and training of new scientific personnel; development and implementation of the Company's research plan; transfer of successful projects/programs to Product Development; and assisting in intellectual property development.

Requires a Ph.D. with post-doctoral experience in Bio/Physics, Biochemistry or related life sciences area and at least 7 years of progressive industrial/commercial experience in managing diverse applied research programs in a bio/pharmaceutical or life sciences reagents company focusing on drug discovery and research. Mathematics and software experience is a major plus. Hands-on experience and understanding of the development of HTS, functional and cell-based assays for use in drug discovery. In addition, a broad background and working knowledge of cellular biology, genomics and proteomics in the area(s) of drug discovery, research and development. Microarray, microfluidics and various HTS methods experience a plus. Previous experience in managing multiple research projects/programs simultaneously, including direct managerial oversight of at least 3 direct reports, as well as good strategic, conceptual, analytical, problem-solving and organization skills.

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The Director, Biological Sciences, will be responsible for the development, leadership, and management of the Biological Sciences research organization. A major challenge will be to lead expansion of the research programs,

Director Biological Sciences

emphasizing systems approaches to complex biological processes. The Director will be responsible for developing research partnerships with other national laboratories and universities.

We seek an individual with proven success in a multidisciplinary research environment. We prefer individuals with a passion for advancing science and effectiveness in building teams. The successful candidate must have experience in the following areas:

- At least 15 years of experience beyond the Ph.D. and postdoctoral level, with an established research career and reputation in the biological sciences
- Demonstrated success in conceiving and attracting funding for large research programs



- Knowledge of DOE, NIH, and other government programs in scientific research
- Ability to develop and communicate vision and strategy at many levels
- Experience in managing complex, multidisciplinary projects; directing senior scientific staff; operating major laboratory facilities
- Extensive knowledge of issues and emerging trends in post-genomic era biology, cell signaling, and systems biology

Salary and benefits are highly competitive. Inquiries, referrals, and resumes should be sent to:

Douglas Ray, Ph.D.
Deputy Associate Laboratory Director
Fundamental Science Directorate
E-mail: doug.ray@pnl.gov

PNNL is an EEO/AA employer and values diversity in the workplace. F/M/D/V are encouraged to apply.



The Ernest Gallo Clinic & Research Center, a biomedical facility affiliated with the University of California, San Francisco, has an immediate opening for the following position:

Postdoctoral Position

Postdoctoral position available immediately to study molecular basis of addiction using combination of biochemical and electrophysiological techniques. Areas of interest include regulation of glutamatergic ion channels via phosphorylation and scaffolding proteins. Candidates with background in neuroscience or signal transduction are encouraged to apply. Competitive salary and benefits. Send C.V. and names, addresses and telephone numbers of three references to:

Dorit Ron Ph.D., Assistant Professor
c/o Human Resources
Ernest Gallo Clinic
and Research Center
5858 Horton Street, Suite 200
Emeryville, CA 94608
Email: hr@egcrc.net
Fax: (510) 601-7943

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committed to workforce diversity.
www.egcrc.org

Unraveling Genetics Information to Cure Disease

SCIENTIST, Cancer Immunotherapy

This motivated scientist will rapidly advance Hyseq's cancer immunotherapy candidates to the clinic. Qualified candidates will have a Ph.D. in a cancer biology related discipline along with 5+ years of postgraduate research experience. A strong cancer biology background, experience working with animal models of cancer, and a solid understanding of tumor immunotherapy and tumor immunology are all desired. We prefer candidates with experience in *in vitro* cytotoxicity assays, antibody development experience, and knowledge of flow cytometry, gene expression, immunology, transgenic/knockout mice, *in vivo* tumor transplantation, and metastasis assays. Salary commensurate with experience. (Job Code: 28-100-SCI)

HYSEQ
PHARMACEUTICALS, INC.
GENES TO DRUGS

At Hyseq Pharmaceuticals, Inc. (formerly Hyseq Inc.), our primary mission is to develop & commercialize new treatments for human disease based upon our proprietary collection of rare & novel genes discovered using our high-throughput screening-by-hybridization platform. We currently have a great opportunity for two dedicated scientists to join our R&D team.

SCIENTIST, Cancer Biology

This position calls for a Ph.D. in a cancer biology related discipline, 3+ years of postgraduate research experience, and a strong cancer biology and molecular/cell biology background. We prefer candidates with experience in *in vitro* transformation assays, gene expression, cell biology, flow cytometry, gene arrays, molecular biology techniques and cell culture. Experience with animal models of cancer desirable, but not required. Salary commensurate with experience. (Job Code: 28-200-SCI)

In addition to our competitive salaries & benefits, you'll have the opportunity to join a promising young company on the verge of something big!

To apply, please forward resumes to:

HYSEQ PHARMACEUTICALS, INC.

Human Resources, Attn: (Job Code: _____)

675 Almanor Avenue, Sunnyvale, CA 94085

FAX: (408) 524-8129 or email (Rich Text Format):

mmickey@sbh.com.

EOE

For an up-to-date listing of all our current openings, check out our web site at:

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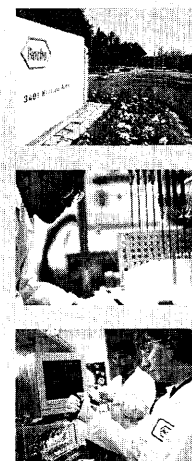
We have ongoing opportunities for:

- Research Associates • Research Scientists • Postdoctoral Research Fellows

We are also pleased to provide a competitive compensation program with generous vacation and holiday schedules. Located in Palo Alto, the heart of innovation, our park-like campus offers a wide array of employee services. As an equal opportunity employer, we are committed to workforce diversity.

To see our current list of job openings and descriptions, please visit our web site at <http://paloalto.roche.com>.

Keep company with those who make you better.



Opportunities in Microbiology Cell Signaling

A Ph.D. level staff scientist position is open at Pacific Northwest National Laboratory to investigate molecular communication and cell signaling in microbial consortia and communities in the environment and/or microbial-host systems. Candidates should have a background in molecular microbiology with experience in one or more of the following areas: genome-based genetic approaches, mass spectrometry-based proteomics, advanced imaging of molecules and processes in cells, or computational modeling of metabolic pathways or other information networks. The successful candidate will participate in a major laboratory initiative in post-genomic sciences at the interface of experimental biology, physical-chemical, and computational sciences, with the goal of elucidating how microorganisms sense, integrate information about, and respond to their biological and physicochemical environment. Molecular communication and cell signaling include signal transduction, information integration networks, and extracellular quorum sensing, especially as they relate to symbiotic, commensal, or pathogenic interactions. In addition to prokaryote-eukaryote experimental systems, consortia or communities involved in photosynthesis, methanogenesis, cellulose degradation, carbon sequestration and stabilization, and metal or radionuclide biogeochemistry are also of interest. Please address technical questions to **Dr. Harvey Bolton** at Harvey.Bolton@pnl.gov.

Please submit resumes to: <http://jobs.pnl.gov/> (Reference No. 103342 Jr. level) or (Reference No. 103459 Sr. level). Interested individuals should also send a detailed curriculum vitae, statement of professional goals and research interests, and three letters of recommendation to: **Anna Mitson, Staffing Specialist, Pacific Northwest National Laboratory, P.O. Box 999 MSIN K9-21, Richland, WA 99352.**

Pacific Northwest National Laboratory

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PNNL is an EEO/AA employer and values diversity in the workplace.
F/M/D/V are encouraged to apply.

SENIOR NEUROSCIENTIST

The Life Sciences Division at Lawrence Berkeley National Laboratory seeks a Senior Scientist with experience in functional brain imaging, including methods using radio-pharmaceuticals with positron emission tomography and magnetic resonance imaging. The incumbent is expected to lead a program of research directed toward discoveries of normal and abnormal human brain function.

This opportunity requires a demonstrated leader with grant funding potential and publication record in the above areas. An MD or PhD degree and experience in the direction of research programs in neuroscience, as well as technical knowledge associated with brain functional imaging methodologies, are essential. Depending on the candidate, a joint appointment with an appropriate UC Berkeley department is possible.

For immediate consideration, please complete our online application at <http://cjo.lbl.gov/>. You may also email your resume to: employment@lbl.gov (no attachments, please), mail it to: Lawrence Berkeley National Laboratory, One Cyclotron Road, MS 937-0600, Berkeley, CA 94720, or fax to: (510) 486-5870. Reference Job # LS/014517/JS in your cover letter. Berkeley Lab is an AA/EEO Employer.



Opportunities in Microbiology Whole Cell Metabolism

A PhD-level staff scientist position is open at Pacific Northwest National Laboratory to investigate whole cell metabolism and/or protein-protein interactions in microorganisms. Candidates should have a background in biochemistry or bioanalytical chemistry with experience in one or more of the following areas: high throughput metabolome approaches, protein-protein interaction assay technologies, advanced imaging of molecules and processes in cells, or computational modeling of metabolic pathways or other information networks. The successful candidate will participate in a major laboratory initiative in post-genomic sciences at the interface of experimental biology, physical-chemical, and computational sciences, with the goal of elucidating how microorganisms sense, integrate information about, and respond to their biological and physicochemical environment. Of particular interest are approaches to broadly characterize key differences in protein complexes and metabolism under varying environmental conditions; localize key complexes, metabolites, and other cellular communication/signaling molecules; and characterize reaction kinetics and dynamics that control the functionality of key proteins and protein complexes. Microbes of interest include those involved in photosynthesis, methanogenesis, cellulose degradation, carbon sequestration and stabilization, and metal or radionuclide biogeochemistry. Please address technical questions to **Dr. Harvey Bolton** at Harvey.Bolton@pnl.gov.

Please submit resumes to: <http://jobs.pnl.gov/> (Reference No. 103343 Jr. level) or (Reference No. 103460 Sr. level). Interested individuals should also send a detailed curriculum vitae, statement of professional goals and research interests, and three letters of recommendation to: **Anna Mitson, Staffing Specialist, Pacific Northwest National Laboratory, P.O. Box 999 MSIN K9-21, Richland, WA 99352.**

Pacific Northwest National Laboratory

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F/M/D/V are encouraged to apply.

CALFED SCIENCE FELLOWS PROGRAM

The CALFED Bay-Delta Program is a cooperative, interagency effort of 18 State and Federal agencies with management or regulatory responsibilities for the San Francisco Bay-Sacramento-San Joaquin Delta. Within CALFED, a Science Program has been established to bring world-class science to all elements of the program: ecosystem restoration, water supply reliability, water use efficiency and conservation, water quality, and flood management. The CALFED Science Program, in cooperation with California Sea Grant, is initiating a fellows program for highly qualified graduate doctoral students and postdoctoral researchers who are interested in a career in multidisciplinary, multi-institutional, field-based research in riverine and estuarine systems. Up to six fellowships will be awarded in the following disciplines of environmental science:

- Hydrology and Hydrodynamics
- Fish Ecology
- Aquatic Ecology
- Geomorphology
- Biogeochemistry

ELIGIBILITY: Prospective CALFED Graduate Science Fellows, at the time of application, must be in or have recently been admitted to a PhD degree program in natural resources, environmental sciences, coastal, aquatic or related studies at any accredited U.S. institution of higher education. Prospective CALFED Postdoctoral Science Fellows must hold a PhD or complete a PhD before the starting date of the fellowship in a doctoral program in environmental sciences or in a related field from any accredited U.S. institution of higher education. U.S. citizenship or residency is required. Applicants must also provide a letter of support/commitment from the prospective research mentor they plan to work with during the fellowship.

AWARD: The fellowship will provide support for up to three years in the form of a grant/award that includes funds for a stipend (\$45,000/yr-postdoc; \$25,000/yr-graduate) and for research-related expenses (~\$25,550/yr-postdoc; \$15,000/yr-graduate).

APPLICATION: For complete details and application instructions: www-cscc.ucsd.edu (follow the CALFED link); tel 858-534-4440; e-mail CALFEDfellow@seamail.ucsd.edu. Application deadline: May 1, 2002.



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At **Advanced Medicine**, we've brought together some of the finest people in science. First, a world-renowned management team whose vision steers our proprietary drug discovery technology as we pursue several promising new drug candidates. And second, a world-class staff of scientists and researchers who bring advanced thinking to the table to help further the medicines of tomorrow. When all is said and done, it's our people who get things done. That's what we're all about at Advanced Medicine.

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You will identify, implement and support information solutions that meet critical needs of the company. This will include applications development/support, user training/support, project management, license compliance, application security, compliance with data standards and budget for Research Information Resources. Your principal customers will include Research (lab automation, cheminformatics software, NMR software, and molecular modeling software) with users in Medicinal Chemistry, Biochemistry, Pharmacology, and Analytical Chemistry. We will rely on you to provide technical leadership and contribute to strategic planning efforts to support and enhance data information needs. Along with an PhD/MS in a scientific field or Computer Science, you will need 5-10+ years experience in Information Technology or the Pharmaceutical field, including programming skills and 4+ years project management and technical scientific management experience with a pharmaceutical, biotechnology, and/or scientific software company. Computational modeling experience desired.

To learn more about this and other opportunities, please visit our website at www.advmedicine.com. Or, if you prefer, you may send your resume, indicating Job Code 01-213, to: Advanced Medicine, Human Resources, 901 Gateway Blvd., So. San Francisco, CA 94080, email resume@advmedicine.com or fax 650-808-6121. We are proud to be an equal opportunity employer.



Advanced Medicine



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Advancing Knowledge, Saving Lives



EMPLOYMENT OPPORTUNITY

Breast Cancer Faculty Position Available

Fred Hutchinson Cancer Research Center University of Washington

The University of Washington (UW) and the Fred Hutchinson Cancer Research Center (FHCRC) are seeking a BC/BE faculty member in the Clinician Scholar/Teacher pathway. The selected candidate is expected to enhance our clinical care and research program in breast cancer. Candidates should have prior experience in clinical research, plus a major commitment to patient care and teaching.

The primary appointment will be at the Assistant, Associate or Professor/Member level with a joint appointment at the Fred Hutchinson Cancer Research Center, if desired.

Candidates should submit their curriculum vitae, 4 names of references, and a concise statement of goals, which should identify the candidate's area of clinical research. Address letter to: **Breast Cancer Search Committee, Attn: Robert Livingston, MD, Seattle Cancer Care Alliance, 825 Eastlake Ave. E., Mailstop G3-200, PO Box 19023, Seattle, WA 98109.** Position will remain open until filled.

The University of Washington and the Fred Hutchinson Cancer Research Center are building a culturally diverse faculty and strongly encourage applications from women and minority candidates and are Equal Opportunity / Affirmative Action employers.



2002

Postdoctoral Research

A postdoctoral position is available in **Dr. Paul A. Slesinger's** laboratory at The Salk Institute for Biological Studies. We study the structure and function of G protein-gated potassium channels and ligand-gated ion channels, utilizing a combination of electrophysiological, biochemical, immunocytochemical and molecular genetic techniques. Currently, we are investigating the molecular mechanisms underlying G protein regulation, membrane targeting, and ligand-activation of ion channels (<http://www.salk.edu/slesinger/intro>). Candidates with a PhD or MD/PhD, some experience with electrophysiology, and a desire to apply molecular biological techniques to physiological studies of ion channels are encouraged to apply.

Please send CV, names of 3 references, and a statement of research objectives to: **Dr. Paul A. Slesinger, The Salk Institute, 10010 N. Torrey Pines Rd., La Jolla, CA 92037.** E-mail: slesinger@salk.edu

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Biotechnology

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



Torrey Mesa Research Institute, (formerly Novartis Agricultural Discovery Institute, Inc.), a research institute of Syngenta Research & Technology, is one of the largest, single, fully-funded research endeavors dedicated to agricultural genomics, consumer health, and post-genomics technology. As an innovative and team-oriented company, we develop and apply cutting-edge biotechnology to match genes with traits for improved agribusiness products, including consumer and animal health products. We are seeking the following talented individual:

Postdoctoral Associate

Our Plant Health Department is studying abiotic stress regulated gene expression with the goal of creating stress tolerant crop plants. We are profiling gene expression changes using Affymetrix GeneChips and need assistance in data mining and downstream experimentation. Ideal candidate will have proven plant molecular biology skills; experience in abiotic stress highly preferred. Responsibilities include developing an independent research project and participating in a team addressing agronomically important questions. Successful candidate is encouraged to publish and present his/her work at national and international meetings and be a part of the thriving local plant biology community. Expected time to fill position is April 2002. **Job Code: PDA/JKRE-SCI**

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

syngenta

www.tmri.org



Celgene is a pharmaceutical company with a major focus on the discovery, development and commercialization of small molecules for the treatment of cancer and immunological diseases. The Signal Research Division of Celgene, located in San Diego, has the following career opportunity:

LEAD DISCOVERY ASSAY DEVELOPMENT PHD AND MASTERS LEVEL

The Signal division of Celgene is a fast paced, cutting edge pharmaceutical company. We have two exciting opportunities for enzyme assay specialists, one at PhD level and one at BS/MS level. Our research is focused on signal transduction pathways with particular emphasis on protein kinases and ubiquitin ligases. The successful candidates will be responsible for developing assays for enzyme characterization, inhibitor identification and mechanism of action studies. Essential experience for these positions includes enzyme assays, assay development and protein handling. Knowledge of enzyme kinetics is a distinct advantage. Experience with radiometric and fluorescence systems is a must and experience in protein chemistry, cell biology and/or biophysics is a plus. Positions at both levels require excellent communication skills, a willingness to work on a team and in a multidisciplinary environment. Proficiency in Excel, Activity Base and graphing software is desirable. **Code: SLD**

Good communication and problem solving skills and the desire to work in a team environment are essential in the above positions.

Position is commensurate with the experience level of the candidates. Celgene offers a competitive compensation package that includes equity participation. If your skill set fits the job description, please send resume (indicating job code) to:

Celgene Corp., Signal Research Division, Attn: L. Cain, 5555 Oberlin Dr., San Diego, CA 92121
or e-mail: lcain@signalpharm.com AAE/EEO

www.celgene.com

Novartis Institute for Tropical Diseases. Breaking new ground.

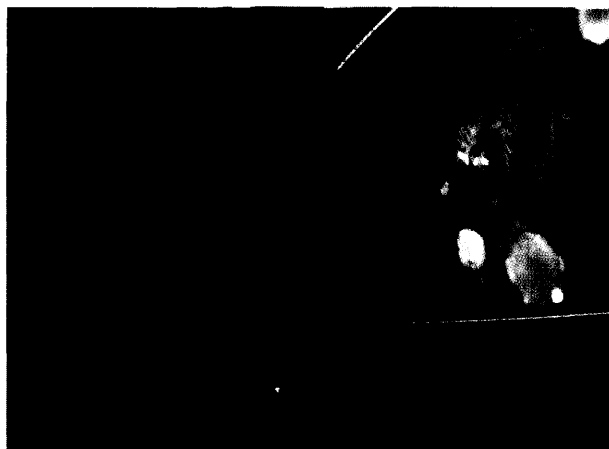
A brand new research centre based in Singapore.

Novartis AG has made a major commitment to medical research into diseases of particular relevance for nations with limited health budgets, with the establishment of a SGD 220 million (US\$122 million) tropical disease research project based in Singapore. In collaboration with the Singapore Economic Development Board (EDB), Novartis has established a tropical diseases research institute aimed at the discovery of preventative and therapeutic treatments for diseases such as tuberculosis and dengue fever. This investment remains an exception within an industry that has traditionally neglected diseases that primarily affect low income nations.

The long-term aim of Novartis is to help reduce the overall affliction of tropical diseases and ultimately, improve the prosperity of developing countries. The World Health Organisation has declared TB a global emergency so this investment builds new hope for those countries. Currently, about one third of the global population is infected with TB and a further one third are at risk. The World Health Organisation has estimated that without effective intervention, over one billion people will become newly infected between 2000 and 2020. Dengue fever is a mosquito-borne viral infection causing fever, severe joint pain and, in some cases, haemorrhage and shock. It affects 50 million people across five continents, and infection rates are increasing dramatically. At the current time, there is no known cure or vaccine.

Dr. Daniel Vasella, Chairman and CEO of Novartis, said, "A recently released report indicated that tropical diseases alone account for 10% of the global disease burden, but virtually no new medicines are being developed. Tuberculosis and dengue fever remain major, and increasingly prevalent, public health problems around the world, particularly in developing countries, and Novartis is committed to contributing to finding solutions to help deal with them."

Singapore is also an excellent choice of location as it will enable Novartis to benefit from high quality local scientific expertise and infrastructure, whilst at the same time being close to other countries in SE Asia where dengue fever and TB are endemic. The Institute is expected to collaborate closely with established academic centres and other centres of excellence in Singapore. Mr Philip Yeo, Co-Chairman of the EDB and Chairman of the Agency for Science, Technology & Research commented, "We warmly welcome Novartis to the growing Biomedical Sciences research community in Singapore. The Institute provides a strong boost to the EDB's plan to encourage R&D activities in Singapore. We are very pleased to work with an industry leader and a committed partner like Novartis."



Paul Herrling, Head of Research at Novartis, is also confident about the future. "Genomics are having an important impact in terms of novel target identification in all areas of medicine. Novartis believes this is an opportune time to extend these techniques to tropical diseases. The intention is to apply Novartis' drug discovery expertise and leading edge technology platforms in the fields of Combinatorial and Medicinal Chemistry, Genomics, Proteomics, Bioinformatics, Robotics and Nanotechnology."

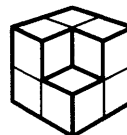
The Institute aims to attract top scientists from around the world to work on highly challenging and progressive areas of drug discovery. It will employ around sixty full-time scientists and technicians to work on a wide scope of activities. The opportunity for scientists to develop their skills and expertise in this critical area is therefore exceptional, as well as providing them with a rare chance to make a visible impact in the development of life-saving treatments.

The Mission of the Novartis Institute for Tropical Diseases is to discover novel treatments and prevention methods in respect of major tropical diseases. In those countries where diseases are endemic, the Novartis Group intends to make treatments readily available and without profit. The discovery technology is state-of-the-art and the scope of activities range from target discovery through to screen development and compound optimisation. The Institute is looking to recruit the best scientists in the world, and as a major centre of excellence, will offer exceptional teaching and training opportunities for post-doctoral fellows and graduate students.



The Novartis Institute for Tropical Diseases in Singapore is currently looking to attract the best talent available in this specialist field. If you share our belief that we can make a difference, visit www.novartis.com

Rosetta Inpharmatics, a wholly owned subsidiary of Merck & Co. Inc., develops and implement technologies that improves the way drugs are made. The company's leading-edge genomic research and data analysis focus on how medical compounds affect biology, enabling more accurate selection of drug targets, faster drug development and better drugs. We're looking for people who want to make a difference in science, technology, and the quality of human life.



**ROSETTA
INPHARMATICS**

A wholly owned subsidiary of Merck & Co., Inc.

Bioinformatics Scientist

The Bioinformatics Scientist will develop software and database tools for sequence data management and DNA microarray design. This position will custom-build new microarray designs to address biological questions and will contribute to research to improve our understanding of expression data. Requirements include: PhD in Molecular Biology, Computer Science or related field. Significant academic or industry experience also acceptable.

Informatics Data Analyst

The Informatics Data Analyst will be responsible for mathematical modeling and analysis of data from biological gene expression systems. This position will analyze gene micro-array and the related biological data and will independently carry out data analysis for Rosetta and MRL biologists. A PhD in Molecular Biology, Biophysics, Bioinformatics or related field is required. Proficiency in Matlab and C++ as well as familiarity with Splunk, SAS, PERL, NT and Unix is also required.

Program Lead Scientist: Pre-Clinical Drug Safety/Drug Metabolism

This Program Lead Scientist is directly responsible for overseeing collaborative projects in the field of Drug Safety Assessment and Drug Metabolism between Rosetta and Merck Research Labs (MRL). Qualifications include a Ph.D. in a biological science, with direct expertise in Toxicology, Pathology, Drug Metabolism, or Pharmacology and 3-5 years of post-doctoral experience. Extensive experience with microarray technology and genomics is highly desired.

Senior Genome Analyst

This senior position will lead research and development efforts that focus on functional interpretation of genomic sequence, including integration of diverse information resources, algorithm development, and data modeling for bioinformatics systems. Requirements include: a Ph.D. in Computational Biology, Bioinformatics, Mathematics/Statistics, Computer Science or related field; three years experience analyzing genomic DNA sequence and significant experience with some combination of C++, SQL, and Perl.

For more information about Rosetta and additional career opportunities please visit www.rii.com, send resumes to Rosettahr@merck.com.

THE ROYAL VETERINARY AND
AGRICULTURAL UNIVERSITY

KVL



Professor of Animal Husbandry

KVL (The Royal Veterinary and Agricultural University) invites applications for a position as full Professor of Animal Husbandry. The appointment is expected to be effective from February 1st 2003, or as soon as possible thereafter.

The duties of the new professor will primarily include research and teaching in the field of Animal husbandry of monogastric animals with special emphasis on pigs. Emphasis is given to biological aspects especially the influence of feeding and other production factors on the productivity, reproduction, health, welfare, product quality, food security, environment and economy.

The appointment will be in accordance with the Danish Ministry of Research Directive 820 of August 31st 2000. The professorship is a salary scale 37 position and will be filled in accordance with the agreement between the Danish Ministry of Finance and AC (the Federation of Graduate Employee Unions). KVL is willing to negotiate a personal salary increment with the relevant union, so that the position will carry a total annual salary of approximately DKK 480,000 exclusive pension contributions.

Potential applicants should request the complete job advertisement for the professorship before applying, in which content of the position, requested qualifications and requirements regarding the application are described. The complete advertisement can be found on KVL's web-page (<http://www.kvl.dk/english>) or can be requested from: **The Royal Veterinary and Agricultural University, The Staff Office, Bülowsvej 17, 1870 Frederiksberg C, Denmark**, tel. (+45)3528 2022. Please refer to no. 628-00291-36 if inquiring. The closing date for applications is **May 21st 2002, at 1200**. This advertisement is an extract on which the application can not be based.

KVL has about 3500 undergraduate and postgraduate students, and employs a staff of about 1600. There are 7 study programmes, of which Veterinary Science and Agricultural Science are the largest. The university budget currently totals approximately DKK 775 million. As a link in KVL's equality politics, we invite both women and men to apply for positions at the university.



Cardiovascular Disease Research

Meharry Medical College has two tenure-track, faculty positions open for the development of a research program in cardiovascular disease supported by the National Center for Research Resources (NCRR) of the NIH's Research Centers in Minority Institutions (RCMI) program. Appointments will be made in clinical and basic science departments in the Schools of Dentistry and Medicine. Collaboration with scientists at Vanderbilt will be encouraged through the Meharry-Vanderbilt Alliance. Competitive start-up packages will include funding for salary, equipment, supplies, technical support, and travel. A strong graduate program trains Ph.D. and M.D./Ph.D. students. This cardiovascular disease focus results from the institution's continuing commitment to eliminate diseases that disproportionately affect African Americans. Targeted faculty are those working in cardiovascular disease including hypertension, stroke and areas such as sickle cell disease and diabetes. Applicants should submit a letter of interest, statements of research and teaching interest, and the names of three references. Applications will be reviewed as received, beginning March 15, 2002. Preference will be given to individuals with strong research backgrounds and productive post-doctoral experiences. Level of appointment will be commensurate with experience. Send information to: **James Potts, M.D., Chair, RCMI Faculty Search Committee, Meharry Medical College, Department of Internal Medicine, 1005 D. B. Todd Blvd., Nashville, TN 37208. (615) 327-6847, (615) 327-6179 fax jpotts@mmc.edu** Meharry Medical College is an Equal Opportunity Employer.

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Assistant Director, CNS Pharmacology **Ann Arbor, Michigan**

Acting as a leader in the Psychotherapeutic section of the CNS Pharmacology Department, you will be relied upon to provide expertise in the area of neuro-psychopharmacology, including the pharmacological and molecular mechanisms involved in psychiatric disorders and drug action. Responsibilities include coordinating the research efforts of PhD and non-PhD research associates in *in vitro* and *in vivo* research, and providing leadership, supervision and professional development for these scientists. This position requires a PhD or equivalent, 10+ years research and supervisory experience in the area of psychiatric disorders within the pharmaceutical industry, and a strong record of scientific achievement. The demonstrated abilities to generate new research targets and to successfully direct multidisciplinary drug discovery projects are essential. Req. #16Jan0210371

Sr. Scientist, Pathology **Ann Arbor, Michigan**

Assuming responsibility for a Cell Imaging team, you will capitalize on your expertise in the fields of cell biology, image analysis, electron and advanced microscopy, flow cytometry and fluorescence imaging techniques. You will be part of a team that actively supports the development of animal models and investigates the pathogenesis of drug-induced toxicity. You must have BS in Cell Biology, Veterinary Pathology or Molecular Biology and 10-12 years experience; an MS in the same fields with 7-10 years experience; or a PhD with 5-6 years experience. Req. #19Jan0210470

Assistant Scientist **Groton, Connecticut**

As a member of the Immunology drug discovery project team, you will develop *in vitro* assays with the goal of discovering novel, immune-enhancing small-molecule or antibody agents for cancer immunotherapy, or suppressing agents for autoimmune diseases and organ transplant rejection. Key objectives will include validation of molecular targets as well as profiling lead compounds. This position requires a BS or equivalent in a relevant scientific field (MS preferred), several years relevant laboratory experience and an established record of independently planning, performing, analyzing and interpreting experiments. Req. #21Jan0210475

Assistant Scientist **Groton, Connecticut**

In this role, you will participate in the cloning, expression and purification of recombinant proteins and perform biochemical analysis aimed at the development of assays and screens that will lead to the discovery of new antibiotics. Additional areas of investigation will include validation of molecular targets, transcriptional profiling, proteomics, and the development of molecular genetic tools, including regulated prokaryotic promoter and gene reporter systems. You must have a BS or equivalent in Biology (MS in Molecular Genetics, Microbiology or a related field preferred), and 2 years academic/industrial experience. A strong background in basic molecular techniques is essential, and working experience with a range of bacteria (staphylococci, streptococci and enterococci) is preferred. Req. #14Nov0108578

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



**Better world.
Better careers.**

Senior Scientists - Molecular Oncology

The successful candidate will serve as a laboratory head, conducting independent and collaborative drug discovery research, from target identification and validation to lead compound optimization. Areas of drug discovery research include signal transduction, apoptosis, transcription regulation and angiogenesis. Candidates should be thoroughly familiar with molecular and cell biological techniques, or have a strong background in biochemistry, including protein purification, protein characterization and enzymology.

Qualifications include a Ph.D. degree, at least 2-10 years of postdoctoral experience and a strong publication record. The ideal candidate will have led successful drug discovery programs and have a broad and in-depth knowledge of oncology research. Excellent leadership, motivational, interpersonal and communication skills are also essential.

Requisition # 13014.

Associate Scientists - Molecular Oncology

The successful candidate will work closely with a Ph.D. level scientist and utilize his/her expertise in molecular biology, cell biology or biochemistry to help discover and characterize novel and effective anti-cancer agents. Positions are also available for scientists with

experience in developing and performing high throughput screening assays using such technologies as SPA, DELFIA, FRET, FMAT and FLIPR, and in the management of the high volume data generated by these assays. Candidates should have a B.S. or M.S. degree and at least two years experience working in a research laboratory.

Requisition # 13015.

Senior Scientists - Oncology Pharmacology

The Oncology Pharmacology Unit is looking for experienced oncologists/ pharmacologists to lead laboratories focusing on animal models of human cancers. Key responsibilities will include development of customized, program-specific models and on broad *in vivo* support for oncology drug discovery programs. This includes compound formulation, preliminary safety evaluation, and assessments of efficacy, PK/PD and *in vivo* proof of concept studies. The candidate will supervise daily activities of a laboratory with 2-4 associates. He/she will closely collaborate/interact with other laboratories within the Pharmacology Unit, and with scientists from the Molecular and Cellular Biology and Medicinal Chemistry Units. The candidate is also expected to make significant contributions to the target selection/evaluation process and to actively participate in at least one drug discovery program according to his/her scientific interest. Presentation of results at meetings and publication in scientific journals is encouraged in our highly stimulating environment.

Requirements include a Ph.D. degree in pharmacology, molecular biology, biochemistry, or equivalent with 2-6 years of industrial experience in Oncology drug discovery. Thorough familiarity and experience with all aspects of animal models of human cancers as well as a strong publication record are essential. The candidate should have a comprehensive, in-depth knowledge of oncology

With three oncology drug launches in 2001 and one compound on the cover of Time magazine, we're positioned to lead the way toward eliminating cancer.

This is an exciting time for us at Novartis Pharmaceuticals. The establishment of the Novartis Oncology Business Unit is leading the way in Oncology Research with the launch of three oncology drugs in 2001: Gleevec, Femara and Zometa. And already in 2002, we have another FDA approval and an Oncologic Drugs Advisory Committee recommendation. This unprecedented success is leading to the dramatic expansion of oncology drug discovery efforts at our New Jersey Institute for BioMedical Research in Summit.

Presently, we are adding 50 highly qualified scientists who are excited by the possibility of eliminating the most formidable disease of our time. Join us and be part of a dynamic team that is at the threshold of great discovery.

research, particularly related to industrial drug discovery and development. He/she should have a strong background in molecular biology, biochemistry, and a good knowledge of statistics. The candidate is also expected to be highly motivated, to have excellent leadership, communication, and inter-personal skills. Experience leading oncology drug discovery programs and/or supervisory experience is a plus. **Requisition #13010.**

Associate Scientists - Oncology Pharmacology

The successful candidate will work as part of a Pharmacology laboratory team and will also closely interact with a Ph.D. level laboratory Head. He/she will make essential contributions to drug discovery by assisting in development and validation of new animal models of human cancers and in characterization of new drug candidates in these models. This will include compound formulation, preliminary safety evaluation, and assessments of efficacy, PK/PD and *in vivo* proof of concept studies.

Requirements include a B.S./M.S. degree in pharmacology, molecular biology, biochemistry, or equivalent with 2 years of experience in animal models of human diseases preferably in industrial oncology drug discovery. Familiarity with Excel, Word, Power Point, and graphic applications, as well as excellent communication and interpersonal skills are essential. Background in molecular biology, biochemistry, good knowledge of statistics will be a significant plus. **Requisition #13012.**

Senior Scientists - Oncology Chemistry

Major responsibilities will include the design, synthesis, purification and identification of appropriate quantities of novel chemical entities in support of various cancer drug discovery programs. The individual will

collaborate/ interact with a broad group of scientists in Oncology Research as well as other areas in Novartis and with various outside collaborators. These scientists will include biologists, molecular biologists, medicinal chemists, protein and peptide chemists, and a variety of personnel in the Core Technology Group.

Requirements include a Ph.D. in organic or medicinal chemistry and 2 or more years postdoctoral experience in the synthesis of complex molecules. Thorough training in and familiarity with modern separation and analytical methods. Previous experience in cancer and/or chemotherapeutic drug development is a plus. Computer literacy and familiarity with a variety of appropriate chemistry-related software packages and some modeling experience preferred. Ability to coordinate research efforts with other team members and excellent communication skills to present/explain scientific results will also be needed. **Requisition #12818.**

Associate Scientists - Oncology Chemistry

Responsibilities will include the design, synthesis, purification and characterization of appropriate quantities of novel chemical entities in support of various cancer drug discovery programs. Candidate will interact with an interdisciplinary team of scientists in oncology research as well as several other therapeutic areas.

Requirements include a B.S. degree in chemistry with 5 years related industrial experience in organic or medicinal chemistry or a M.S. degree with 3 years of related industrial experience in organic or medicinal chemistry. Must possess independent critical thinking skills and chemical synthesis expertise and experience in modern separation techniques, compound analysis and chemistry-related computer software. Excellent interpersonal and written skills. **Requisition #12820.**

Interested candidates, please apply online for fastest consideration at www.joinnovartis.com referencing the five digit Requisition ID# and proceed with the application process as instructed. Visit our new global oncology website at www.novartisoncology.com. We are an equal opportunity employer M/F/D/V. Principals Only.



www.joinnovartis.com



**MAYO CLINIC
DIRECTOR**

BIOMEDICAL MASS SPECTROMETRY AND PROTEOMICS FACILITY

Mayo Clinic, Rochester, invites applications for the position of Director, Biomedical Mass Spectrometry and Proteomics Facility. The candidate must have completed a doctoral degree in a suitable discipline (biochemistry, molecular biology, pharmacology, chemistry, physics) and must have expertise in the area of mass spectrometry, particularly as it applies to the analysis of protein structure and protein quantitation. The Biomedical Mass Spectrometry and Proteomics Facility is a part of a larger proteomics effort at Mayo Clinic and Foundation, and the candidate is expected to work closely with other investigators with similar interests. The candidate will be expected to supervise an existing, superbly equipped, developmental mass spectrometry and cellular proteomics facility and to develop an independent research program. Substantial start-up funds and funds for new mass spectrometry equipment are available. The candidate would be eligible for a suitable academic appointment (assistant professor to full professor, depending on qualifications) in an appropriate department (e.g. Biochemistry and Molecular Biology, Molecular Pharmacology and Experimental Therapeutics, Immunology, Physiology and Molecular Biophysics).

The Mayo Clinic is located in Rochester, Minnesota, and is regarded as one of the premier biomedical, clinical, and research institutions in the United States. Applicants are encouraged to submit their curriculum vitae and bibliography, summary of past accomplishments, and names of three references no later than July 1, 2002 to:

R. Kumar, M. D., Chair
Biomedical Mass Spectrometry and Proteomics Research Search Committee
911A Guggenheim Building
Mayo Clinic
200 First Street SW
Rochester, MN 55905
E-mail: rkumar@mayo.edu
Phone: (507) 284-0020 Fax: (507) 266-4710

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UIC University of Illinois
at Chicago

Faculty Positions

**Department of Pharmacology
University of Illinois at Chicago**

The Department of Pharmacology (<http://www.uic.edu/depts/meph>) solicits applications for the rank of Assistant, Associate, or Full Professor. We are seeking individuals with NIH funding or high probability of research support in the case of junior faculty. Recruitment emphasis is on areas related to mechanisms of cell proliferation, apoptosis, and angiogenesis (for conjoint position with the Cancer Center) as well as cardiovascular biology and the biology of endothelial, alveolar epithelial and hematopoietic cells. Significant research accomplishments in other areas will also be considered. Individuals must be of outstanding caliber and are expected to develop a nationally credible research program. Exceptional start-up package and space in new research building are available. Candidate must possess a M.D. or Ph.D.

For fullest consideration please send a CV, names of three referees, and summary of research goals by May 15, 2002 to: **Faculty Search, Dept. of Pharmacology (M/C 868), University of Illinois at Chicago, College of Medicine, 835 S. Wolcott Ave., Rm. E403, Chicago, IL 60612.**

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

GOLDHABER DISTINGUISHED FELLOWSHIPS

Brookhaven National Laboratory (BNL) has created the Gertrude and Maurice Goldhaber Distinguished Fellowships Program with funding from Battelle Memorial Institute and Stony Brook University, partners in Brookhaven Science Associates. These prestigious Fellowships are awarded to candidates with exceptional talent and credentials, who have a strong desire for independent research at the frontiers of their fields. The fellowships are three-year appointments and will each carry a starting salary of \$70,000 per annum. The fellowship program will also provide a modest amount of independent funds for materials and supplies. Candidates should be at a maximum three years past receipt of the Ph.D. at the time of the application. The intention of the program is to select individuals who will qualify for scientific staff positions at (BNL) upon completion of the appointment.

BNL is a multidisciplinary laboratory dedicated to the advancement of physics, chemistry, and biology and medical, energy and environmental sciences, and the utilization of user facilities that include accelerators for particles, heavy ions and synchrotron light. Consideration will be given to excellent candidates with training in any discipline pertinent to these missions of the Laboratory. Goldhaber appointees will work in close collaboration with a member of the BNL scientific staff and as such it would be useful for candidates to identify a research mentor. The application and selection process will continue until available positions are filled.

Candidates can seek to pursue this unique opportunity by sending a letter of intent, outlining their research interests, with a C.V., list of publications, and names of contact information of three referees familiar with their work, to Dr. Leonard Newman, Brookhaven National Laboratory, Bldg. 815E, P.O. Box 5000, Upton, New York 11973-5000 (email: newman@bnl.gov). They can refer to the Laboratory web page: www.bnl.gov for more information about BNL, and in particular Human Resources for a description of the Goldhaber Fellowship, and to Job Opportunities for a listing and description of present postdoctoral positions, any of which qualify for consideration under this program. BNL is an equal opportunity employer and encourages applications from minorities and women.

**BROOKHAVEN
NATIONAL LABORATORY**

www.bnl.gov

**DIRECTOR
DIVISION OF MATHEMATICAL
SCIENCES
National Science Foundation,
Arlington, VA**

NSF's Directorate for Mathematical and Physical Sciences (MPS) seeks candidates for Director of its Division of Mathematical Sciences. The Division supports research and education in mathematics and closely related areas. Information about the Division's activities may be found at <http://www.nsf.gov/mps/divisions/dms/start.htm>.

Appointment to this Senior Executive Service position may be on a career basis, or on a 2-to-3 year limited term basis, with a salary range of \$125,972 to \$138,200. Alternatively, the incumbent may be assigned under Intergovernmental Personnel Act provisions. Announcement S20020068 with position requirements and application procedures, is located on the NSF Home Page at <http://www.nsf.gov/home/chart/work.htm#hrm>. Applicants may also obtain the announcements by contacting the **Executive Personnel and Development Branch** on 703-292-8755 (Hearing impaired individuals may call TDD 703-292-8044). Applications must be received by 15 May 2002.

NSF is an Equal Opportunity Employer committed to employing a highly qualified staff reflecting the diversity of our nation.

Protein Science at Myriad Genetics, Inc.

Myriad Genetics, Inc. is a biopharmaceutical company focused on the development of therapeutic and diagnostic products that are based on the use of genomics and proteomics technologies. Myriad's proteomic platforms include our yeast two-hybrid-based ProNet™ and our mass spectrometry-based ProSpec™ groups. These combined programs are being used to generate detailed protein-protein interaction maps of the human proteome. Our goal is to understand the functional significance of specific proteins and to evaluate their potential as drug targets. To do so, we are expanding our target validation group.

Research Scientist - Target Validation

We are seeking individuals with expertise in cell-based assays to evaluate and adapt new assay systems and to define the cellular role of candidate drug targets identified by our ProNet™ and ProSpec™ proteomic platforms. You will verify and characterize the functions proteins play in the pathways/networks to which they have been mapped. You must have a Ph.D., 2-5 years' of post doctoral experience, and a solid background in mammalian cell-based technologies. You must possess a thorough knowledge of expression and reporter systems, cell models, tissue culture techniques (primary and tumor cell lines), and analytical methods such as FACS.

Research Associates - Target Validation

Associates will work with research scientists in the target validation group, and self-starting individuals will have the opportunity to carry-out and analyze independent experiments and cell culture-based assays. You must have a B.S. or M.S. degree, 2+ year's laboratory experience in tissue culture and experience in mammalian cell culture. Successful candidates will.

Please send a resume to: Myriad Genetics, Inc.
Attn: Human Resources, 320 Wakara Way,
Salt Lake City, Utah 84108-1214
FAX (801) 584-1144 / humanres@myriad.com

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The University of Miami, School of Medicine, is an Internationally recognized front-runner in health care, and has the following opportunity available:

POST-DOCTORAL FELLOWSHIP

A NIH-funded Post-doctoral Fellowship position is available to identify genes causing hearing loss and to perform function analysis on genes identified. We have collected a large number of DNA samples from families with genetic deafness and are developing knockout mouse models for a form of human genetic deafness. A strong background in molecular biology and experience with gene identification is desired. Candidates should have a Ph.D. and/or M.D. Interested applicants should send a curriculum vitae and a list of three references to: **Dr. Xue Zhong Liu, Department of Otolaryngology (D-48), University of Miami, P.O. Box 016960, Miami, FL 33101; or E-mail: xliu@med.miami.edu**



www.miami.edu/jobs

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THE STATE UNIVERSITY OF NEW JERSEY
RUTGERS

DIRECTOR ENVIRONMENTAL AND OCCUPATIONAL HEALTH SCIENCES INSTITUTE

Piscataway, New Jersey

Jointly sponsored by the University of Medicine and Dentistry of New Jersey – Robert Wood Johnson Medical School and Rutgers, The State University of New Jersey, the Environmental and Occupational Health Sciences Institute (EOHSI) seeks a Director and invites nominations and expressions of interest.

The Environmental and Occupational Health Sciences Institute was founded in 1986 as an interdisciplinary research institute with the mission to conduct scientific research, train health professionals and communicate its findings to professional and lay groups. It addresses environmental issues of significance to New Jersey, the nation and the world and has achieved national and international prominence for its success. It is a National Institute of Environmental Health Sciences Center of Excellence and has recently been designated as a NIEHS/EPA Center for Childhood Neurotoxicology and Exposure Assessment. It has six multi-disciplinary divisions: Environmental Health, Environmental Policy, Exposure Measurement and Assessment, Occupational Health, Public Education and Risk Communication and Toxicology. It now attracts \$35 million annually in extramural funding and is housed in a dedicated 75,000 square foot state-of-the-art building. The nearly 100 faculty affiliated with the Institute have academic appointments at the UMDNJ-Robert Wood Johnson Medical School, the UMDNJ School of Public Health or at Rutgers University.

The Director will

- shape and drive a strong research agenda tied to the multi-disciplinary mission of the Institute
- lead and manage the faculty and staff whose efforts result in knowledge, education and communication of environmental impacts on public health
- recruit and retain colleagues who can extend the standard of excellence of the work of the Institute
- plan and direct the supporting infrastructure
- develop partnerships in the universities, with healthcare institutions, with public and private organizations and in the community.

The Director will be a nationally recognized, dynamic scientist and leader with experience in a complex university/medical school environment. S/he will be a demonstrably strong manager with understanding of academic financial issues. S/he will report to the Joint Managers, appointed by the presidents of the two universities, and will work collaboratively with the leadership of both universities. The Director will show significant success in attracting support and effectiveness in enhancing an institution's national visibility. An earned doctorate in an appropriate field is required as is a superb record of research. Excellent communication skills are essential. Salary is competitive and commensurate with qualifications and experience.

The search is underway and will continue until the position is filled. Expressions of interest and nominations should be sent, in confidence, to Mary Elizabeth Taylor, Witt/Kieffer, 780 Third Avenue, 38th Floor, New York, NY 10017 or to EOHSI@wittkieffer.com. The University of Medicine and Dentistry of New Jersey and Rutgers University are both affirmative action and equal opportunity employers. Witt/Kieffer, an executive search firm focusing on health care and higher education, is supporting both universities in this search.

Educational Management Network/Witt/Kieffer

THE UNIVERSITY OF HONG KONG

香港



大學

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

Research Assistant Professorships and Postdoctoral Fellowships

Applications are invited for a number of positions as Research Assistant Professor (RAP) (Ref: RF-2001/2002-250) and Postdoctoral Fellow (PDF) (Ref: RF-2001/2002-251), tenable on or before 31 January 2003. Appointments will be made for a period of 2 to 3 years.

RAP and PDF posts are created by the University with the aim of injecting fresh impetus and vigour to the University's research enterprise, in order to complement and broaden its existing research expertise. Appointees are expected to bring in new research ideas and cutting-edge technologies.

Research Assistant Professors

The main focus of an RAP's duty is research. They can, however, be assigned teaching duties, up to 50% of the normal teaching load. Applicants should be research active and have a proven publication record. Appointments will be made usually on the first point of the 4-point salary scale HK\$45,210 (approx. £4,092; Sterling equivalents as at 31 January 2002), HK\$48,495 (approx. £4,389), HK\$51,740 (approx. £4,683) and HK\$55,020 (approx. £4,980) per month. A contract-end gratuity and University contribution to a retirement benefits scheme, totalling up to 15% of basic salary is provided. Annual leave, medical and dental benefits will be offered.

Postdoctoral Fellows

PDFs are expected to focus on research. Applicants should be PhD degree holders. Appointments will be made usually on the first point of the 4-point salary scale HK\$31,520 (approx. £2,853), HK\$34,505 (approx. £3,123), HK\$37,820 (approx. £3,423) and HK\$41,465 (approx. £3,753) per month. Annual leave, medical and dental benefits will be provided.

Where posts are held

A full list of the research areas and the departments or academic units in which the posts are recruited will be shown on the University's homepage at <https://extranet.hku.hk/apptunit>.

Procedures

Interested applicants are strongly advised to contact, in the first instance and prior to making an application, the Head of the appropriate department or academic unit to ascertain the level of posts available and to obtain information about current research initiatives and activities.

Applicants must submit a completed University application form, which should clearly state **which position** they are applying for; and in which **academic discipline**. Applicants who are applying for both positions should fill in **two** sets of application forms. They should also provide further information such as details of their research experience, publications, research proposals, etc.

Further particulars and application forms (41/1000 amended) can be obtained at <https://extranet.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). Closes **15 March 2002**. Candidates who are not contacted within 3 months of the closing date may consider their applications unsuccessful.

*The University is an equal opportunity employer and
is committed to a No-Smoking Policy*

Research Assistant Professor Associate Professor/Professor

The Department of Surgery at Wright State University School of Medicine is seeking a basic scientist to assist in the development of a research division within the department. This is a full-time, 12-month faculty position. Candidates must possess a M.D./Ph.D. degree plus three or more years of postdoctoral training. Assistant Professor level candidates will be expected to develop an extramurally funded, independent research program. Candidates for Associate Professor level must have 3-5 years experience at the Assistant Professor level and external grant funding. Candidates for Professor level must have external grant funding, 3-5 years at the Associate Professor level and 20 peer-reviewed publications. Laboratory facilities and a secondary faculty appointment will accompany the primary appointment in Surgery. Teaching responsibilities will include graduate and medical student education in the secondary department. Initial appointment is for three years with subsequent continuances at five-year intervals. Research areas of interest to the Department of Surgery include solid cancers, gastrointestinal disease, thermal burns, surgical infections, trauma and vascular disease. Initial consideration will begin on April 1, 2002 and continue until the position is filled. You may view the university website at www.wright.edu the department of surgery website at www.med.wright.edu/surg and the benefits summary at www.wright.edu/admin/humres/benefits/administrativesummary.htm.

Applicants should submit a recent CV and three letters of reference to: **James B. Peoples, M.D., Elizabeth Berry Gray Professor and Chair, Wright State University Department of Surgery, Suite 7000 CHE, One Wyoming St., Dayton, OH 45409.** Inquiries may also be directed to james.peoples@wright.edu or 937-208-2177. WSU is an AA/EEO employer.



WRIGHT STATE
UNIVERSITY



DIRECTOR OF SCIENCE AND TECHNOLOGY

The Office of Naval Research (ONR) is seeking an outstanding individual to serve in this Civil Service position in the Senior Executive Service (SES). Salary is \$138,200 per year. In addition to salary, career SES appointees are eligible to compete for performance awards and bonuses. Filling of this position is subject to position allocation availability.

The Director of Science & Technology (DS&T) of the Office of Naval Research (ONR) is the senior civilian manager in ONR. The mission of ONR is to plan and manage all Science and Technology (S&T) for the Department of the Navy (DON). This responsibility includes all DON basic research (category 6.1 funds), exploratory development (category 6.2 funds), and advanced technology development (category 6.3A funds). The incumbent reports directly to the Chief of Naval Research (CNR) and provides executive, technical, and scientific direction to ONR in the performance of its mission.

The CNR will normally delegate to the DS&T broad responsibilities for overall direction of the DON S&T program. Specifically, in support of, and in conjunction with the CNR, the incumbent: exercises line management over ONR S&T departments to plan, foster, and maintain a quality S&T program supporting Navy and Marine Corps needs; recommends to the CNR, after consultation with ONR leadership, financial and programmatic investment plans for the DON S&T program; exercises authority to speak and act for the CNR in S&T matters not required by regulation to be performed by a military officer; and provides a basis for stable policy during rotation of the CNR, serves as the direct representative of the CNR to the highest organizational levels in the Department of Defense (DOD) and DON, serves as the direct representative of the CNR to the highest organizational levels of other branches of government and with the civilian community, including national and international technical societies, the National Academies of Science and Engineering, and the National Institutes for Medicine, and provides continuity and corporate memory for long-term commitment, policies, practices, and processes.

For detailed information on qualifications and how to apply, applicants may download a copy of Announcement # ONR-02-0002-NR from the ONR web site <http://www.onr.navy.mil/hr>. Applications must be in the HUMAN RESOURCES SERVICE CENTER - NORTHEAST by close of business 29 March 2002.

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AND PROMOTES DIVERSITY IN THE WORKPLACE.
WOMEN AND MINORITIES ARE ENCOURAGED TO APPLY**

Leading the Way



for a Healthier World.™

At *Wyeth*, we work with purpose because our work has purpose: We work for lives. We have a long history of pioneering preventive and therapeutic pharmaceutical, vaccine, and nutritional product solutions. Our R&D accomplishments in women's health care, anti-inflammatory agents, central nervous system drugs, oncology/immunology, infectious disease and more put us at the forefront of health care's most promising discoveries. With a product pipeline ranked among the industry's best, the future is exhilarating. We currently have openings at our *Pearl River, NY* facility for:

Associate Director - Bioanalytical Research & Development

- PhD in Chemistry or a closely related field with relevant management experience
- Experience directing the activities of a bioanalytical group and strong background in liquid chromatography and mass spectrometry

Research Scientist I - Bioanalytical Research & Development

- Provide analytical support by quantitating novel drug entities in biological matrices by HPLC or HPLC/MS/MS in a GLP environment
- BS/MS in Chemistry, Biology, or other related discipline with at least 5-7 years hands-on experience in HPLC or HPLC/MS, depending on level of degree

Sr. Research Scientist II - Pharmacokinetics

- Select and develop new drug candidates in Drug Safety and Metabolism
- Design, conduct, analyze and report results from non-clinical pharmacokinetic, toxicokinetic and pharmacokinetic/pharmacodynamic studies
- PhD in Pharmacokinetics or a related discipline with a minimum of 5 years related experience
- Expertise in the area of pharmacokinetics and the software packages commonly used for pharmacokinetic and statistical analysis

Section Head, Immunochemistry, Bioanalytical R&D

- Supervise the operation of a laboratory specializing in performing immunochemistry assays to support GLP and clinical studies of biopharmaceuticals
- PhD with minimum of 5-8 years industry experience or a BS/MS with 12-18 years experience
- Extensive experience with immunoassays, in particular quantitative immunoassays for measurement of protein therapeutics and assays to detect antibodies to protein therapeutics
- Experience with Good Laboratory Practices
- Laboratory management experience

Principal Research Scientist I

- Manage the operation of a laboratory specializing in performing immunochemistry assays to support GLP preclinical and clinical studies of biopharmaceuticals
- PhD with 5-8 years and an MS w/12-18 years

The collective skills of 40,000 of the world's top talent keep us on the cutting edge. We care for our people by offering rich avenues for advancement, challenging opportunities, competitive compensation, stock options, childcare subsidies, education assistance, flexible schedules and other great benefits. For consideration, please forward your resume with salary requirements to: **Wyeth Pharmaceuticals, Source Code: OPSCI, P.O. Box 1262, Findlay, OH 45893. Fax: 419-429-6074. E-mail: Wyeth@TrackCareers.com** Only resumes that include the Source Code will be considered. No phone calls. Principals only. Equal Opportunity Employer M/F/D/V



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DEPARTMENT OF BIOLOGY

York is one of the UK's leading broad-spectrum Biology departments, with an international reputation in biomolecular and biomedical science, plant science and ecology. The opening of the new Hull-York Medical School in 2003 will bring new biomedical research to the campus. To build on this success we will be opening a £25m JIF-funded development in July, incorporating a Technology Facility with £5m new, state-of-the-art equipment in six fully-staffed laboratories.

To exploit these exciting possibilities to the full and continue to build a vigorous and stimulating teaching and research environment, we are offering six new academic posts:

Chair in Eukaryotic Cell Biology

(Ref. DA0206)

With an international record of applying post-genomic approaches to model systems, you will complement both our existing strengths and links to the new medical school to provide research leadership in Eukaryotic cell biology.

Contact Professor Alan Wilson on: raw3@york.ac.uk

Lecturer in Molecular Biophysics

(Ref. DA0207)

An accomplished Biophysicist, ideally studying the kinetic and thermodynamics of macromolecular associations, you will interact with existing research groups concentrating on protein-protein interactions and protein structure.

Contact Professor Colin Kleanthous on: C.Kleanthous@uea.ac.uk
Interview date: 19/4/02

2 Lecturers in Microbiology

(Ref. DA0208)

We have two opportunities within microbial biochemistry and microbial genetics to pursue particular research interests, ideally in the functional genomics of microbial pathogenesis and development although other areas would be considered.

Contact Professor Colin Kleanthous on: C.Kleanthous@uea.ac.uk

Lecturer in Plant Biology

(Ref. DA0209)

You will be using modern approaches to investigate biological questions at the whole-plant level and be enthusiastic about teaching plant biology at all levels.

Contact Dr Ottoline Leyser on: hmol1@york.ac.uk
Interview date: 24 or 25/4/02

Lecturer in Bioinformatics

(Ref. DA0210)

You will ideally have expertise in gene structure and expression analysis and/or the development of bioinformatics to support post-genomic technologies although other bioinformatics research interests will be considered. You will contribute to our highly successful MRes in bioinformatics and provide strategic direction, particularly within the Technology Facility-based bioinformatics lab.

Contact Professor Peter Young on: jpy1@york.ac.uk

Interview date: 22/4/02

All lectureship posts will be appointed on Scale B (£25,455 - £32,537 p.a.)

Informal enquiries on any of these posts may also be made to the Head of Department, Professor Alastair Fitter, on: ahf1@york.ac.uk

For further information and details of how to apply, please write to the Personnel Office, University of York, Heslington, York YO10 5DD or email: jobs@york.ac.uk quoting the appropriate reference number, or see: <http://www.york.ac.uk/admin/persnl/jobs/research.htm>

Closing date: 16 March 2002.

THE UNIVERSITY of York



POSTDOCTORAL POSITION

Department of Biochemistry and Molecular Biology
Rochester, Minnesota, U.S.A.

A postdoctoral fellowship position is available in the laboratories of Dr. Thomas C. Spelsberg in the Department of Biochemistry and Molecular Biology, Mayo Clinic. The broad project area of study is the "actions and interactions of estrogen receptor (ER) α , ER β , and the co-regulators (SRCs) in the regulation of gene expression in human and rodent osteoblasts and breast cancer cells." Most of the research utilizes cells in culture with occasionally some work with transgenic/knockout mice. The laboratories are well equipped with state-of-the-art instruments and techniques, with the support of a dozen core facilities and animal facilities.

The labs are housed in a large (20 story) research building, housing many other laboratories and departments. Candidates should have a Ph.D. or M.D. degree with molecular biology experience. Candidates who qualify for NIH training grant positions are preferred, but this is not a requirement.

Salary will be determined by the successful candidate's experience. There is an attractive benefit package. Mayo Clinic Rochester is a not-for-profit organization. Mayo integrates research with clinical practice and education in a multi-campus environment.

Please send curriculum vitae and bibliography, summary of past accomplishments, and the names of three references to:

Ms. Jackie House
1601 Guggenheim Building
200 First Street SW
Rochester, MN 55905
House.jackie@mayo.edu

*Mayo Foundation is an Affirmative Action and
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*Join our Dynamic Team at the Lindsley F. Kimball
Research Institute of The New York Blood Center*

Currently, we offer an excellent opportunity
in Laboratory of Cell Biology

RESEARCH FELLOW

(Laboratory of Cell Biology)

The candidate should have a PhD/MS degree in Molecular or Cell Biology or in other related field with 1-3 years of research experience. The candidate will participate in an ongoing research project of cloning and characterization of a novel human reticulocyte receptor involved in malaria parasite invasion. The candidate is expected to have experience in receptor-ligand interaction studies and expertise in all relevant techniques required for immunoaffinity purification of protein, 2-D gel electrophoresis, cDNA cloning and protein expression. Experience in cell culture techniques, *in vitro* malaria parasite culture and animal model (mouse) are desirable. Hands on experience in Baculovirus expression system are definitely a plus.

We offer a competitive salary and benefits package. For immediate consideration, please submit resume with salary requirements to: *HR Dept-MK, New York Blood Center, 150 Amsterdam Avenue, New York, NY 10023, Fax: (212) 721-2752, Email: mary_koester@ccmail.nybc.org Website: www.nybloodcenter.org*

△ Lindsley F. Kimball
Research Institute
A Division of the New York Blood Center

EOE M/F/D/V



Working at the frontiers of knowledge

Working at the University of Groningen (RUG) means working at the frontiers of knowledge. The RUG offers researchers and students the scope and facilities to displace these boundaries, to develop their own talents, and to realise top-notch achievements. In this, the RUG opts for an interdisciplinary approach to knowledge. Renewal arises exactly at the interfaces between the various academic fields of study; this is the genesis of discovery. Researchers and students profit from the rich assortment of disciplines that the RUG has developed in the course of its almost four-hundred-year history.

Knowledge is universal, it is not confined by borders. The RUG has made a deliberate choice for intensive and worldwide co-operation with other leading universities and organisations. Although oriented towards the world at large, the RUG is also intimately concerned with its own region, in which it functions as one of the largest employers. The 19.000 students and 5.500 members of staff form a solid academic community with open relations. They are a vital component of the unique city of Groningen: both students and staff appreciate the quality of the residential climate.



The closing date for applications is one month after publication of the announcement.

Applications, including a description of research interests and experience, curriculum vitae, list of publications and the names and addresses of three persons willing to provide references, should be sent to the Head of the Personnel Department, University of Groningen, P.O. Box 72, 9700 AB Groningen, The Netherlands.

Please state the vacancy number on the envelope and on the letter itself.

Additional information on jobs at the RUG can be obtained on the website:

(www.rug.nl)

The RUG offers good career facilities especially geared to working partners of new staff who move home.

The RUG aims at creating a reasonably equally balanced work force in terms of gender. Women are still under-represented in a number of domains. Accordingly, an appeal is made to women in particular to apply.

Vacancy in the Faculty of Mathematics and Natural Sciences

• Full Professor of Experimental Condensed Matter Physics

VACANCY NUMBER 202034

The Faculty of Mathematics and Natural Sciences of the University of Groningen invites applications for a full professorship in physics.

The faculty offers Bachelor, Master and Ph.D. programs in physics and applied physics, through its School of Physics. Research in the faculty is organized in research institutes; the position is part of the Materials Science Centre.

The Materials Science Centre unites 18 research groups in chemistry and physics. It is one of the six recognized centers of excellence in the Netherlands. The research program of the Materials Science Centre focusses on materials structured on the nanometer scale. The program is organized in two areas: design, construction and control of molecular bio/organic materials; and novel hybrid and functional gradient materials.

The candidate should

- have a Ph.D.-degree in experimental physics
- be an internationally recognized researcher
- be an inspiring teacher
- have good managerial skills.

The responsibilities of the candidate include

- teaching undergraduate courses in physics and applied physics, and advanced courses in condensed matter

- developing a strong research program in experimental condensed matter physics, mainly based on external funding and fitting in the program of the Materials Science Centre
- taking a fair share in management duties within the faculty.

The appointment will be at the level of full professor (hoogleraar A) with a gross monthly salary between € 4.264,- and € 6.222,- depending on qualifications and experience.

Further information may be obtained from the director of the Materials Science Centre, Prof. Dr. L. Niesen, phone +31 50 3634736 / 3634843 (secretary), e-mail <l.niesen@phys.rug.nl> See also: <http://www.fwn.rug.nl/vacatures>

Rijksuniversiteit Groningen



PET Director

NIDA-02-0003, PET Director: The Neuroimaging Research Branch, Intramural Research Program (IRP), National Institute on Drug Abuse (NIDA), NIH, invites applications for a Tenure/Tenure Track investigator position as Chief of the Positron Emission Tomography (PET) Section. The successful candidate is expected to develop an independent research program emphasizing the development and/or application of novel radiotracers to problems of drug abuse. As such, candidates must possess a Ph.D. or M.D./Ph.D. in organic, medicinal or physical chemistry, pharmacology, or a related field, with significant scientific achievements as an independent investigator and experience in developing and/or applying novel radiocompounds to study *in vivo* functional brain chemistry. The incumbent will be responsible for leading an existing vibrant group of scientists; therefore, excellent leadership and interpersonal skills and a strong research interest in the neurochemical and pharmacological mechanisms of drug abuse are required. The PET facility includes a Siemens HR+Exact PET camera, CTI models RDS111 cyclotron, complete hot and cold laboratory facilities, and *in vivo* and *in vitro* animal and tissue laboratories.

This opportunity is offered at a competitive salary level and includes a full Federal benefits package plus an operating budget in an exciting, multidisciplinary research environment. Relocation expenses may be paid. Interested applicants must submit a Curriculum Vitae with bibliography, a description of future research plans (no more than 5 pages), three letters of recommendation from non-collaborators, and a copy of the doctoral/medical degree (if in a foreign language, include a certified English translation) to: **Morgan DuBrow, Chief, Human Resources Management Section, NIH/NIDA/IRP, 5500 Nathan Shock Drive, Building C, Room 247, Baltimore, MD 21224. Mr. DuBrow is available on 410-550-1638, FAX 410-550-2224, e-mail: MDUBROW@intra.nida.nih.gov.** You may apply via mail, in person, by fax, or by e-mail. All application materials must be received by close of business on March 31, 2002; late applications will not be considered.

The NIH is an Equal Opportunity Employer, and applications from women and minorities are encouraged.

GLOBAL OPPORTUNITIES



Postdoctoral Positions in JST ERATO Nanospace Project

Postdoctoral researcher positions in JST ERATO Nanospace Project led by Professor Takuzo Aida of the University of Tokyo are available immediately (from April 01, 2002) for highly motivated individuals to explore nano-scale chemistry and materials sciences. The five-year project highlights research topics on supramolecular chemistry and nanoscopic materials sciences, fabrication of photonic and electronic nano materials, nano-clusters, as well as nano-reactors, based on organic, macromolecular, supramolecular, and inorganic chemistries, sol-gel processes, and also using biomolecular and bio-macromolecular motifs. Applications are sought for candidates full of original ideas and already having excellent postdoctoral experiences on the above and related fields. A working contract for one year is offered with a possible extension to a second year based on individual performances and research results. The salary, which is one of the highest classes in the same fields, is commensurate with research experiences of the candidates.

Candidates should send a CV including bibliography and summary of past accomplishments, research plans, and the names and addresses of three referees who can indicate how you are qualified and motivated for scientific researches on the above fields, to:

Junnosuke Yamauchi

JST ERATO Nanospace Project

National Museum of Science and Innovation Building 4th Floor

2-41 Aomi, Koto-ku, Tokyo 135-0064, Japan

yamauchi@nanospace.miraikan.jst.go.jp

http://www.nanospace.miraikan.jst.go.jp/

UNIVERSITY OF MARYLAND Baltimore

Director of Transgenic Facility

We are seeking a director to manage and oversee a newly created transgenic core facility at the University of Maryland School of Medicine. This newly created transgenic core facility will be funded at a full operational level in newly renovated dedicated laboratory space to serve the entire research community at UMB.

The individual will generate transgenic and chimeric mice utilizing pronuclear and ES cell microinjection techniques. The applicant should have extensive experience in mouse blastocyst microinjection, embryo manipulation, and culture, ES cell karyotyping, generation of aggregates and chimeras, and genotyping, as well as rodent surgery, transgenic colony management, animal health issues, barrier techniques and management of a microinjection facility. Other duties may include assistance in IACUC protocol preparation and imports/exports of animals, and embryo cryopreservation. Must be able to work independently, supervise technicians and train and communicate with scientists, technicians and collaborators.

Specific responsibilities, level of appointment and salary will be commensurate with experience and highly competitive. Faculty appointment is possible for an appropriate individual who also desires to maintain an independent research program.

Please send a letter of interest, c.v. and names of three referees to:

Frank L. Margolis Ph.D., Chair, Transgenic Search, Department of Anatomy and Neurobiology, University of Maryland School of Medicine, 685 West Baltimore Street, Baltimore, MD 21201; Fax: 410-706-2512; E-mail: fmargoli@umaryland.edu AA/EOE/ADA

www.umaryland.edu/hs

MIT

TWO FACULTY POSITIONS IN MATERIALS SCIENCE AND ENGINEERING

The Department of Materials Science and Engineering at MIT invites applications for two tenure-track positions one in the broad area of materials science and engineering and the other in materials synthesis, processing and properties, with a particular emphasis on microscale and nanoscale materials. Candidates should have a Ph.D. degree in engineering or science and are expected to initiate an outstanding teaching and research program in an interdisciplinary environment. It is anticipated that the positions will be filled at the Assistant Professor level, although exceptionally well qualified senior applicants can also be considered. Deadline for receipt of applications is May 31, 2002.

Applicants should include a complete cover letter and a brief (2-3 page) description of their research and teaching plans as well as the names of 3 references. MIT is building a culturally diverse faculty and strongly encourages applications from female and minority candidates.

The application should be addressed to: **Department of Materials Science and Engineering Attn: Broad or Nano/Micro Search, Massachusetts Institute of Technology, Rm 8-309, 77 Massachusetts Ave., Cambridge, MA 02139-4307.**



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web.mit.edu/personnel/www



GEORGETOWN UNIVERSITY NEUROSCIENCE TENURE-TRACK FACULTY POSITIONS

The Department of Neuroscience is recruiting two new tenure track faculty at the rank of Assistant or Associate Professor. We seek outstanding candidates with research in molecular or developmental neurobiology, neurophysiology, or cognitive, computational or systems neuroscience.

We have state-of-the-art core facilities in cellular neurobiology, neuroanatomy, EEG/ERP, as well as animal (7T) and human magnetic resonance (fMRI). We offer an outstanding intellectual and collaborative environment with highly competitive salary and start-up packages. Successful candidates must have a Ph.D. or equivalent, evidence of productivity and innovation, and the potential to establish an independently funded research program. Applications are encouraged from women and underrepresented minorities.

To apply send a detailed CV, a two-page statement of research and teaching interests specifying one or more of the research areas noted above, and names of at least three referees to the following address: **Neuroscience Search Committee, Attn: Janet Bordeaux, Department of Neuroscience, Georgetown University Medical Center, 3900 Reservoir Road, NW, Washington, DC 20007; http://neuro.georgetown.edu**

Application review will begin immediately and will continue until positions are filled.

Georgetown University is an Equal Opportunity, Affirmative Action Employer. We are committed to diversity in the workplace.



When curiosity is developed to its full potential, great discoveries are made. At Pharmacia Corporation, we invest \$2+ billion a year in R&D with major activities focused in the areas of arthritis/inflammation, cancer, infectious diseases, cardiovascular and metabolic diseases, and disorders of the central nervous system. Exciting opportunities now exist for innovative, forward-thinking professionals to join our team in **Skokie, Illinois**.

Global Toxicology Postdoctoral Position

As a member of our research team responsible for drug safety, the successful candidate will work across functional areas with pharmacologists, toxicologists and other medical scientists from industry and academics to help identify new methodology and expand upon existing procedures in Safety Pharmacology. You will provide the principal technical direction for specialized physiology aspects of the group, including large and small animal *in vivo* studies. The incumbent will work closely with the Manager of Safety Pharmacology to develop and test new models of non-invasive data acquisition, including measuring cardiovascular, gastrointestinal and renal physiological parameters. Requirements include a PhD in Physiology, Pharmacology, Toxicology or related field plus *in vivo* experience. Background in the principles of non-invasive imaging or scintigraphy would be beneficial, but highly qualified candidates without this history will also be considered.

Molecular Carcinogenesis/Genetic Toxicology Postdoctoral Position

As a member of our Global Toxicology Department, this individual will investigate molecular mechanisms of carcinogenesis and work on projects, including the development and/or improvement of *in vitro* models for carcinogenicity prediction and investigation into molecular mechanisms of carcinogenesis using transgenic and knockout models. Projects will involve using toxicogenomics/gene expression profiling and molecular and cell biology methods to investigate mechanisms of genetic toxicity and carcinogenicity. A major focus will be toward the discovery and validation of both prognostic and diagnostic biomarkers for genetic toxicity, carcinogenicity and other toxicities, while working on multidisciplinary teams. A PhD in Pharmacology, Toxicology or a related area, background in cellular mechanisms of disease, a working knowledge of various molecular and cellular biological techniques, and excellent communication skills are required. Knowledge of gene expression profiling techniques is a plus.

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www.pharmacia.com

PHARMACIA

POSITIONS OPEN

DEPARTMENT CHAIR Department of Anatomy and Cell Biology East Carolina University

The Brody School of Medicine at East Carolina University invites applications and nominations for the position of Chair, Department of Anatomy and Cell Biology. The successful candidate should have a significant record of research achievement; enthusiasm for enlarging the departmental graduate program; evidence of effective administrative and interpersonal skills; commitment to providing effective teaching of medical and allied health courses in gross anatomy, embryology, histology, and neuroanatomy; and a Doctorate in anatomy and cell biology or related field. Preference will be given to candidates with research interests focused on cellular differentiation, particularly with regards to the cytoskeleton, extracellular matrix, or junctional complexes; however, candidates with expertise in other areas of cell biology will also be considered. The Chair will have the opportunity to recruit several faculty members to build on current strengths of the Department. The Chair is expected to foster research interactions with other basic science and clinical departments and to establish a long-term plan that secures a national reputation for the Department. Review of applications will begin April 1, 2002, with the position available July 1, 2002. Start date may be negotiated. Applicants should submit current curriculum vitae and statement that addresses administrative philosophy, research goals, and teaching interests along with names and addresses of three references to:

John Bradford, D.V.M., Ph.D.
Chair, Search Committee
Department of Comparative Medicine
Brody School of Medicine
East Carolina University
Greenville, NC 27858

Information about Greenville, North Carolina, East Carolina University, and Brody School of Medicine may be obtained at **websites:** <http://www.greenvillenc.org>, <http://www.ecu.edu>, and <http://www.med.ecu.edu>. East Carolina University is an Affirmative Action/Equal Opportunity Employer. Applications by female and minority candidates are strongly encouraged.

University of New Mexico School of Medicine, Women's Health Research Center, is seeking a tenure-track **ASSOCIATE PROFESSOR** faculty member. Candidate must have a Ph.D. and/or M.D. in biomedical science; five to 10 years of experience in human reproductive research/neurosciences; established, independent NIH/NSF/ACS or similar funded research program(s); experience obtaining major grant funding; and be eligible to work in the United States. For complete information, access our **website:** <http://hsc.unm.edu/hr>. For best consideration, applications must be received by April 4, 2002. Send a signed letter of interest, curriculum vitae, and three references to: **Theresa Everling, Obstetrics and Gynecology, University of New Mexico, 2211 Lomas Boulevard N.E., ACC4, Albuquerque, NM 87131-5286. FAX: 505-272-3918; e-mail: teverling@salud.unm.edu.** UNM is an Equal Employment Opportunity/Affirmative Action Employer/Educator.

The California Academy of Sciences seeks an outstanding Ornithologist or Mammalogist to fill the position of **ASSISTANT** or **ASSOCIATE CURATOR** and **DEPARTMENT CHAIR** in the Ornithology and Mammalogy Department. This is a full-time, regular faculty position on a 10-month annual basis. The successful applicant will pursue a research program in systematic biology that is specimen- and field-based. Teaching opportunities including graduate student mentorships are possible. The successful candidate should be a leader in scientific research and in the communication of science to the public and have a desire to participate in the training of students. To view the entire job description, please visit **website:** http://www.calacademy.org/humanresources/Jobs/curator_o&m.htm.

POSITIONS OPEN



FACULTY POSITION Internal Medicine/General Internal Medicine/Geriatrics

Southern Illinois University School of Medicine

The Department of Medicine at Southern Illinois University School of Medicine seeks an **ASSISTANT/ASSOCIATE PROFESSOR** of clinical medicine interested in clinical gerontology. The Department is fully committed to assisting the selected candidate in developing a vigorous, externally supported research program. Selected candidate will have the opportunity to interact with existing clinical and research programs in gerontology including Alzheimer's Center, SIU Geriatrics Initiative, studies of CNS and auditory aging, stem cells, movement disorders, and mammalian longevity genes and their interaction with caloric restriction. In addition, there will be ample opportunity to collaborate with faculty participating in the expanding Cancer Institute. Qualifications: Board certified in internal medicine. Applicants eligible for or possessing certification in geriatrics preferred. Efforts will be focused on developing an active research program. Additional responsibilities include patient care service in geriatrics including both inpatient and outpatient; medical outreach; teaching medical students, residents, and Fellows. Forward letter of application, curriculum vitae, and names and addresses of three references to: **David E. Steward, M.D., Department of Internal Medicine, Southern Illinois University School of Medicine, P.O. Box 19636, Springfield, IL 62794-9636.** Applications will be accepted through March 1, 2002, or until filled. *SIU School of Medicine is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR Department of Pharmacology The University of Toledo

The University of Toledo seeks an Assistant Professor (tenure-track appointment) with a Ph.D. in pharmacology or a related discipline for appointment in the Department of Pharmacology in the College of Pharmacy. The candidate will be expected to teach undergraduate- and graduate-level courses in pharmacology and develop and maintain an independent, externally funded research program. The research area is open and should be complementary to existing strengths in the Department of Pharmacology including molecular pharmacology, synthetic medicinal chemistry, and drug design and development. Interested candidates should submit curriculum vitae and three letters of reference to: **Chair of Search Committee, Position Number 1302, Department of Pharmacology, Mail Stop 607, The University of Toledo, 2801 West Bancroft Street, Toledo, OH 43606.** *The University of Toledo is an Equal Access/Equal Opportunity/Affirmative Action Employer and Educator.*

ASSISTANT PROFESSOR, cancer research (100% research). The Department of Pathology, University of Tennessee, invites applications for a state-supported tenure-track position available April 1, 2002. Applicants must possess D.V.M., M.D., or Ph.D. degree or equivalent and have significant experience in research on the role of the arachidonic acid cascade in cancer of the prostate, colon, lung, and/or pancreas. Individuals with active grants in one or several of these areas will be given preference. A competitive salary and start-up package will be offered. Send research activities, funding levels, curriculum vitae, and two references to: **Dr. Michael McEntee, Department of Pathology, The University of Tennessee, 2407 River Drive, Knoxville, TN 37996. E-mail: mmcentee@utk.edu.** *The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/Americans With Disabilities Act/Age Discrimination in Employment Act Employer.*

POSITIONS OPEN

TENURE-TRACK FACULTY POSITION GEOMICROBIOLOGY Stanford University

The Department of Geological and Environmental Sciences at Stanford University seeks an outstanding young Scientist for a tenure-track **ASSISTANT PROFESSOR** position in the field of geomicrobiology. We are seeking an individual with a strong background in microbiology, geobiology, molecular biology, or a related field to establish an innovative research and teaching program involving microbiological processes in terrestrial and aquatic environments that focuses on mechanistic understanding. Areas of particular interest include but are not limited to the following: (1) microbially mediated processes that affect local and/or global biogeochemical cycles of carbon and other elements, (2) molecular evolution of biogeochemically relevant enzymes and (micro)organisms and their impacts on geological processes, and (3) biochemistry of microbial processes controlling the interaction of metal ions (aqueous or solid) with microorganisms including the formation of biominerals.

The candidate should have a Ph.D. in microbiology, biochemistry, geobiology, molecular biology, or a related field and a strong demonstrated interest in geochemical and geological processes.

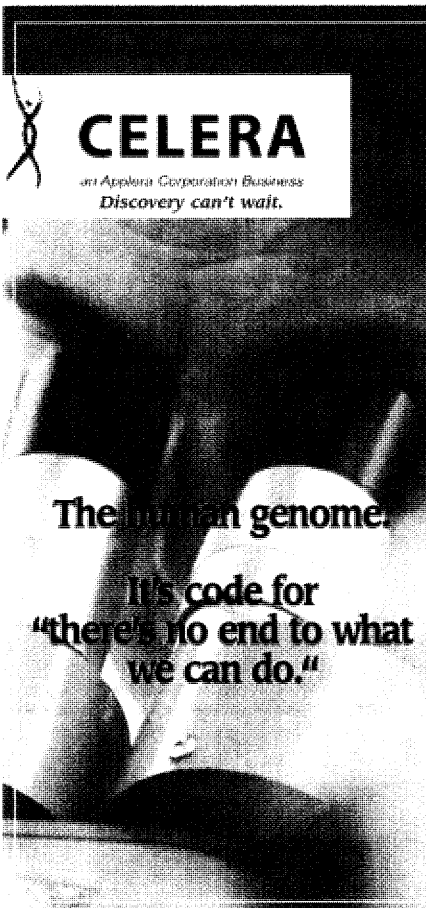
Please send your résumé (including list of publications), a statement outlining research and teaching interests, and the names and addresses (including e-mail addresses) of three references to: **Professor Gordon E. Brown, Jr., Chair, Geomicrobiology Faculty Search Committee, Department of Geological and Environmental Sciences, Stanford University, Stanford, CA 94305-2115 U.S.A. E-mail: gordon@pangea.stanford.edu. Departmental website: <http://pangea.stanford.edu/GES/>.**

Deadline for receipt of applications is May 31, 2002, although applications will be accepted until the position is filled. The position will start in the summer or fall of 2003.

Stanford University has a strong commitment to the principle of diversity. In that spirit, we particularly encourage applications from women, members of ethnic minorities, and individuals with disabilities.

MICROBIOLOGIST/MOLECULAR BIOLOGIST: Transylvania University, a selective, private, liberal arts college of 1,100 students, invites applications for a tenure-track **ASSISTANT PROFESSOR** starting August 2002. Candidates should have Ph.D. and a commitment to both undergraduate education and research. Teaching responsibilities include (1) lecture and laboratory sections in genetics and/or cell and molecular biology and (2) upper-level elective in microbiology and a course in their specialty. Teaching load is two classes with laboratory sections per regular term. The college has recently initiated an excellent faculty development program that competitively funds student and faculty research. Personal laboratory space provided. Bingham Awards for Excellence in Teaching may provide substantial salary supplements for exceptional candidates or smaller start-up awards for recent Ph.D.s. Please send curriculum vitae, plans for actively engaging undergraduates through teaching and research, graduate and undergraduate transcripts, and three letters of recommendation. Closing date: March 22, 2002. Applications will be reviewed as they arrive. Send applications to: **Dr. Gerald Seebach, Division of Natural Sciences and Mathematics, Transylvania University, Lexington, KY 40508. Telephone: 859-233-8228; FAX: 859-233-8171.** *Transylvania University is an Equal Opportunity Employer and actively seeks applications from women and minorities.*

BIOLOGY: Mary Baldwin College, a private liberal arts college for women, seeks applications for a one-year appointment in biology at the **ASSISTANT PROFESSOR** level. Teaching responsibilities include genetics, comparative anatomy, physiology, and occasionally principles of biology. Ph.D. required. Deadline for applications is March 22, 2002. See **website:** <http://www.mbc.edu/admin/employment> for details.



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Group Leaders

- Formulation & Preformulation

Protein Expression

Rockville, Maryland

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EOE

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GLOBAL OPPORTUNITIES

The Takeda Techno-Entrepreneurship Award 2002

Announcement

The Takeda Foundation will present six Techno-Entrepreneurship Awards for R&D activities that will lead to the creation of new businesses. **Each award will be for up to 10 million yen (approximately US\$80,000) per year for up to three years.** Two awards will be made in each of three application fields: social/economic well-being (information and electronics), individual/humanity well-being (life sciences), and world environmental well-being (world environment).

Eligibility

The Award is open to individuals of all nationalities and all organizational affiliations (e.g., company, university, or independent).

Award Process

Winners will be selected based upon competitive cyber (online) workshops held in specific technical subjects. **The Foundation is requesting suggestions for these cyber-workshops topics until March 15.**

After the session topics are determined, the call for research proposals will be from **April 1 to May 31.**

For More Information See the Takeda Foundation Website:

<http://www.takeda-foundation.jp/>

or contact Ms. Mariko Tsusaka, The Takeda Foundation, St. Luke's Tower, MS33, 32Fl., 8-1 Akashi-cho, Chuo-ku, Tokyo 104-6591 Japan. **Phone:** 81-3-3549-2781, **Fax:** 81-3-3549-2787, **E-mail:** t-tea@takeda-foundation.jp

 **TheTakedaFoundation**

NIDA-02-0005, DRUG ABUSE AND BRAIN IMAGING: Several **POSTDOCTORAL FELLOWSHIP** positions are available, at various levels of responsibility, under the leadership of Dr. Elliot Stein, beginning on or about July 1, 2002. The positions are in the Section of Cognition and Pharmacology, Neuroimaging Research Branch, Intramural Research Program (IRP), National Institute on Drug Abuse (NIDA), NIH. These are full-time research positions that will last from 2 to 8 years at this premier site for the study of functional neuroimaging and drug abuse. The research focus of the Section is the application of traditional and novel MRI technologies (including fMRI, diffusion and perfusion weighted fMRI, DTI and MRS) to the study of human substance abuse. Individuals with interest in the neural mechanisms of reward and punishment, affect, higher cognitive functions (e.g. central executive functions, attention) or psychopharmacology and their application to addiction are encouraged to apply. The successful candidates will be part of a large, multidisciplinary team using functional neuroimaging to map brain activity and neurobiological mechanisms associated with higher cognitive and affective systems involved in addiction in both non-drug users and substance abusers. Candidates must have a Ph.D. (or M.D./Ph.D.) in psychology, neuroscience, cognitive neuroscience, pharmacology or a related discipline and may be either U.S. or non-U.S. citizens. Junior candidates will also be considered if they will be awarded a doctoral degree by the summer of 2002.

Interested candidates should forward a CV with bibliography, a statement of research background and interests, 3 letters of recommendation (from noncollaborators for more senior candidates), and a copy of the doctoral degree (if in a foreign language, include a certified English translation) to: **Dr. Elliot Stein, Chief, Neuroimaging Research Branch, c/o Carol Sneeringer, NIH/NIDA/IRP, 5500 Nathan Shock Drive, Building C, Room 270, Baltimore, MD 21224.** These fellowships are open until filled; however interim cut-off dates will be established for the review and/or selection of candidates.

The NIH is an Equal Employment Opportunity employer, and applications from women and minorities are encouraged.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR Department of Pharmacology The University of Toledo

The University of Toledo seeks an Assistant/Associate Professor (tenure-track appointment) with a Ph.D. in pharmacology, pharmaceutical sciences, or a related field for primary appointment in the Department of Pharmacology in the College of Pharmacy. The candidate will be expected to teach undergraduate- and graduate-level courses for the Department of Pharmacology; develop and maintain an independent, externally funded research program; and to direct graduate students. The research area is open and should be complementary to existing strengths in the Department of Pharmacology including neuropharmacology, molecular pharmacology, drug metabolism and pharmacokinetics, toxicology, pharmacoepidemiology, gene therapy, bioinformatics, and clinical pharmacology. A competitive salary and start-up package will be provided. Interested candidates should submit curriculum vitae and three letters of reference to: **Kenneth Bachmann, Ph.D., F.C.P., Chair of Search Committee, Position Number 2373, Department of Pharmacology, The University of Toledo, College of Pharmacy, Room WO 2243, 2801 West Bancroft Street, Toledo, OH 43606.** *The University of Toledo is an Equal Access/Equal Opportunity/Affirmative Action Employer and Educator.*

DEPARTMENT HEAD

The Department of Nutrition and Food Sciences at Utah State University invites applications for Department Head with academic appointment as **FULL PROFESSOR** with tenure. Candidates must have a Ph.D. in food science or related area; teaching experience at the undergraduate and graduate level; recognized research program; familiarity with Agricultural Experiment Station and Cooperative Extension; engagement with food and/or nutrition industries; and effective communication, interpersonal relations, and administrative skills. Full information about the position can be found at **website: <http://personnel.usu.edu/jobopenings.htm>**. Review of applications will begin on May 1, 2002, and continue until a suitable applicant has been found. Applicants should submit a statement of professional goals, vision statement, current curriculum vitae, and the names and contact information of five references to the following address: **Dr. Marie K. Walsh, Search Committee Chair, Utah State University, Nutrition and Food Sciences, 8700 Old Main Hill, Logan, UT 84322-8700. Telephone: 435-797-2177; FAX: 435-797-2379, e-mail: mkwalsh@cc.usu.edu.** *Utah State University is an Equal Opportunity/Affirmative Action Employer.*

PHYSICIAN/SCIENTIST Infectious Diseases

A position (ASSISTANT PROFESSOR/PROFESSOR rank) is available in the Division of Infectious Diseases of the Department of Internal Medicine at the University of Michigan. Physician Scientists who study any aspect of viral, bacterial, or fungal pathogenesis/immunity are urged to apply. Applicants should be Board eligible/Board certified in infectious diseases.

Interested candidates should forward their curriculum vitae and contact information for three references to:

**N. Cary Engleberg, M.D.
Division of Infectious Diseases
Department of Internal Medicine
University of Michigan Health System
Room 3116 TC
1500 East Medical Center Drive
Ann Arbor, MI 48109-0378
E-mail: cengleb@umich.edu**

The University of Michigan is an Affirmative Action/Equal Opportunity Employer. Minorities and women are strongly encouraged to apply.

POSITIONS OPEN



DIRECTOR OF THE STEM CELL CENTER Northwestern University Medical School

Northwestern University Medical School is seeking a Director of a cross-departmental stem cell center devoted to the study of stem cell biology. As part of its strategic plan, the Medical School has made major commitments for expanding its programs in stem cell sciences. The Director of the Center will have substantial resources for building and expanding stem cell programs both in the basic science and the clinical Departments. The Director will be able to establish new laboratories studying both basic and applied aspects of stem cell biology and will also be able to build interdisciplinary programs throughout the Medical School. Senior Scientists with strong research programs employing innovative molecular/cellular approaches to stem cell biology are encouraged to apply. The candidates must hold a Ph.D. degree or a combined M.D./Ph.D. degree.

This is a full-time, tenured position at the rank of **PROFESSOR** with salary and starting date negotiable. This is a continuing appointment. To ensure full consideration, submit the following materials: (1) current curriculum vitae and list of publications; (2) brief statement of research interests; and (3) contact information for three references no later than May 1, 2002, to: **Dr. John Kessler, Chairman of the Search Committee, 303 East Chicago Avenue, Ward Building 10-185, Chicago, IL 60611-3078. E-mail: jakessler@northwestern.edu.**

Please refer to Academic Search Number P-192-02. *Northwestern University is an Affirmative Action/Equal Opportunity Employer. Hiring is contingent upon eligibility to work in the United States. Women and minorities are especially encouraged to apply.*

SENIOR FACULTY POSITION HUMAN BRAIN IMAGING University of California, Irvine Center for the Neurobiology of Learning and Memory

The Center for the Neurobiology of Learning and Memory (**website: <http://www.cnlm.uci.edu>**) has a position available in human brain imaging of learning and memory. CNLM research ranges from molecular and cellular levels to human behavior. Imaging facilities at UCI include a research-dedicated 4T MRI system, a 1.5T research magnet, cyclotron and PET facilities, optical imaging, and several EEG/ERP laboratories. Submit cover letter indicating research interests, curriculum vitae, recent publications, and contact information for three to five references to: **CNLM Brain Imaging Search Committee, University of California, Irvine, CA 92697-3800.** Applications received before April 1, 2002, will receive preference but later applications will be considered. *The University of California has an active career partners program and is an Equal Opportunity Employer committed to excellence through diversity.*

FACULTY POSITION Environmental Health Science

ASSISTANT PROFESSOR, nine-month, tenure-track position beginning August 2002 in a nationally accredited environmental health science program. Appropriate Master's degree required. Earned Doctorate preferred. Preference given to individuals able to teach toxicology, air quality, and waste management. Send letter of intent, résumé, and the names of three references to: **Dr. Gary Smith, Department of Health Sciences, Western Carolina University, Cullowhee, NC 28723.** For further information, please see the WCU **website: <http://www.wcu.edu/hrpage.html>**. Review begins March 15, 2002, and continues until the position is filled. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

DIRECTOR OF THE ANIMAL RESOURCES CENTER

The University of Chicago searches for an academically oriented individual to direct as a faculty a dynamic and growing animal resource program at a major research institution.

The individual should have experience in the management of an animal resource facility and be familiar with the standards of AAALAC accreditation and regulatory compliance issues.

Candidates must have a D.V.M. or equivalent degree from an AVMA-accredited institution and Board certification in laboratory animal medicine (ACIAM). The Director will participate in teaching and/or training and will be expected to develop new programs for faculty and institutional development. The University's research programs include sponsored projects of \$268 million annually with approximately 500 animal research protocols. The Center is responsible for the care and housing of laboratory animals used at the University. Animal facilities encompass 110,000 square feet with a census of approximately 25,000 animals. Salary and level of academic appointment will be commensurate with experience and qualifications. Interested candidates should submit curriculum vitae, letter of interest, and three references to: **Ms. Marquette Woods, c/o The Academic Search Committee, 5841 South Maryland Avenue, MC 1000, Chicago, IL 60637-1463.** *The University of Chicago is an Equal Opportunity/Affirmative Action Employer. Underrepresented minorities and women are encouraged to apply.*

FACULTY POSITION in chemistry: The Department of Chemistry and Biochemistry at Arizona State University invites applications for a tenure-track faculty position, rank open. Required: a Doctoral degree in chemistry, physics, or a related physical science; distinguished record of research accomplishments appropriate to rank; and teaching experience appropriate to rank. Research interest and expertise in the areas of interfacing molecular or biomolecular systems with bulk materials (including conductors, semiconductors, and optically accessible surfaces) and in electron transfer mechanisms as applied to molecular electronics are of particular interest and desired. Applicants must send a description of research plan, statement of teaching philosophy, list of publications, curriculum vitae, and ensure that three letters of reference are sent to:

**Interfacial Chemistry Search Committee
c/o Professor Devens Gust
Department of Chemistry and Biochemistry
P.O. Box 871604
Arizona State University
Tempe, AZ 85287-1604**

Application deadline is April 1, 2002, or every two weeks thereafter until the position is filled. *ASU is committed to increasing faculty diversity and is an Equal Opportunity/Affirmative Action Employer.*

The University of Texas at Brownsville/Texas Southmost College invites applications for three full-time, tenure-track faculty positions in the Department of Biological Sciences at the **ASSISTANT PROFESSOR** level or higher beginning August 2002. Evidence of teaching and research interest is required. Applicant is to participate in teaching introductory-level, upper-division, and Master's-level biology courses. Understanding of curriculum and other academic issues is desirable as is the potential to attract external funding. The three positions are in the areas of (1) anatomy and physiology including human nutrition, (2) cellular/molecular biology, and (3) ecology. Requirements: Ph.D. in biological sciences. For the anatomy and physiology position, a M.D. will be considered. Applications should be sent to: **Human Sources, UTB/TSC, Tandy Hall Number 266, 80 Fort Brown, Brownsville, TX 78520.** For additional information, contact: **Luis Colom, Search Committee Chair; e-mail: lcolum@utb.edu; website: <http://www.utb.edu>.**



Faculty Positions

£Competitive plus excellent resources

Cambridge, UK

The Wellcome Trust Sanger Institute (formerly The Sanger Centre), is at the forefront of experimental and computational genome research. We have strengths in genome sequencing, high throughput systems, informatics and analysis of gene function using genetic approaches in humans and a variety of model organisms. The Wellcome Trust has recently awarded £300 million to the Sanger Institute to support our new biological/genetics research direction as well as our existing programmes over the next five years, plus £65 million for IT infrastructure.

Applications are invited for full time faculty positions at the rank of *Investigator*, *Senior Investigator* and *Principal Investigator* (<http://www.sanger.ac.uk/faculty/positions.shtml>). Individuals with backgrounds in vertebrate genetics, microbial genetics or informatics are particularly urged to apply. Successful candidates will be expected to establish and maintain independent and internationally recognised research programmes. A few positions are also available where we are seeking candidates to direct programmes aimed at developing specific genome resources and infrastructure (<http://www.sanger.ac.uk/faculty/specific.shtml>).

The Sanger Institute is committed to provide a level of support so that there is no impediment to performing high quality and productive science. This includes access to our infrastructure as well as unencumbered support commensurate with the rank of appointment (<http://www.sanger.ac.uk/faculty/descriptions.shtml>).

Applicants are requested to send curriculum vitae with a full publication list by 31st March 2002. You should also provide a two page description summarising your research accomplishments to date and a three page plan of your future research goals and strategies indicating how these fit with, or make use of Sanger Institute programmes and infrastructure. Candidates interested in existing internal programmes should focus their future plans in the context of a specific programme. All candidates must provide three letters of recommendation. Please arrange to have these letters and your application sent to:

Allan Bradley, Faculty Search Committee Chair, The Wellcome Trust Sanger Institute, Wellcome Trust Genome Campus, Hinxton, Cambridge CB10 1SA, ENGLAND. E-mail: abradley@sanger.ac.uk FAX: +44 (0) 1223 494714



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IDEXX is searching for a world class Research Scientist to join our water business in Westbrook, ME. This individual will be responsible for designing and executing research and development efforts for microbial detection methods/products for water business. Activities would include establishing new product concept, developing reagents/assays, conducting feasibility studies, transfer to operations and product improvements.

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GLOBAL OPPORTUNITIES

NATIONAL CENTRE FOR CELL SCIENCE, PUNE

(An autonomous Institution
of the
Department of Biotechnology,
Government of India)

NCCS is devoted to research and development in Modern Biology and Biotechnology. The Centre is looking for various outstanding Scientists in areas of cell biology, developmental biology and tissue engineering. Candidates should have published work of high quality. Applicant must possess a doctoral degree or equivalent and should be an Indian citizen. For position, salary & age limit the applicants are requested to contact at the address given below. Applicant should send a CV mentioning a summary of research work carried out, area of interests and goals as well as three letters of reference to :

**Director
National Centre for Cell Science
Ganeshkhind, Pune - 411 007
Maharashtra, India**

Fax No. 91-20-5697756 or 5692259
E-mail : gemishra@nccs.res.in

The complete C. V. should reach us within two months of appearance of this advertisement.

Postdoctoral Positions in Jak/Stat and β -catenin Signaling

The Laboratory of Genetics and Physiology at the National Institute of Diabetes, Digestive and Kidney Diseases looks for two post-doctoral scientists to investigate the Jak2/Stat5 and β -catenin signaling pathways in development and disease. We use multiple established and novel approaches in the field of Mouse Genetics, Cell Biology and Bioinformatics to understand how cytokines control the specification, proliferation and differentiation of mammalian cells (Hennighausen and Robinson, *Developmental Cell*, 1, 467; Miyoshi et al., *J Cell Biol.*, 155, 531; Miyoshi et al., *PNAS*, 99, 219). We are an international team with members from eight countries on three continents and our research ranks among the top 1% as established by the ISI. Former members of our laboratory hold positions in Academia, Industry and Government. For more information about our research program see <http://mammary.nih.gov/lgp/lab>

Contact:

**Lothar Hennighausen, Ph.D.
Laboratory of Genetics and Physiology
National Institute of Diabetes, Digestive
and Kidney Diseases
hennighausen@nih.gov**

NIH is an Equal Opportunity Employer.

POSITIONS OPEN

CARDIOVASCULAR PHARMACOLOGIST University of Wyoming School of Pharmacy

The School of Pharmacy ([website: http://uwadmnweb.uwyo.edu/pharmacy/](http://uwadmnweb.uwyo.edu/pharmacy/)) invites applications for a tenure-track faculty position at the level of **ASSISTANT PROFESSOR** of pharmacology. We seek an individual who employs molecular or cellular approaches to study the regulation of cardiovascular function in normal or disease states. The successful applicant is expected to develop an externally funded research program that complements existing areas of research: gene analysis of heart and brain after myocardial infarction, neural systems controlling blood pressure, hypoxia-sensing mechanisms, and dietary salt effects on blood pressure regulation.

Qualifications: must have a Ph.D. (or equivalent) and postdoctoral experience and demonstrated expertise in the use of cellular/molecular approaches to study cardiovascular function. Approaches might include but are not limited to the use of transgenic and/or knockout animals in which genes are inactivated or substituted to provide information about CNS control of cardiovascular function; molecular pharmacology of receptor systems in brain, heart, or vasculature; and the effects of cardiovascular pathology on receptor structure and function and DNA microarray technology to study cardiovascular function.

The successful candidate will be expected to be a member of the NIH-funded Cardiovascular Center of Biomedical Research Excellence ([website: http://uwadmnweb.uwyo.edu/cardio-cobre/](http://uwadmnweb.uwyo.edu/cardio-cobre/)) and contribute to teaching pharmacology to pharmacy students. The position also provides an opportunity to teach first-year medical and nursing students and to teach and direct graduate students in the neuroscience program and other interdisciplinary graduate programs.

Send a letter explaining your research interests, curriculum vitae, representative publications, and three letters of recommendation to: **Search Committee, Cardiovascular Pharmacology, School of Pharmacy, University of Wyoming, Laramie, WY 82071**. Review of applications will begin December 1, 2001, and continue until the position is filled. *The University of Wyoming is an Affirmative Action/Equal Employment Opportunity Employer.*

TENURE-TRACK POSITION Department of Anatomy and Cell Biology University of Saskatchewan

The Department of Anatomy and Cell Biology invites applications for a tenure-track appointment at the rank of **ASSISTANT PROFESSOR**, effective January 1, 2003. Areas of departmental research include cell and molecular biology, developmental biology, and neurobiology. A variety of cell and molecular biology techniques are used by faculty members. With the construction of a synchrotron on campus, the appointee will have the opportunity to use synchrotron X-ray and infrared analyses in his/her research. Applicants must have postdoctoral training and a strong research program involving the application of molecular biology/cell biology approaches in one of the above areas. The successful candidate will be expected to teach in one of the following areas: gross anatomy, neuroanatomy, histology, or cell biology. Previous teaching experience will be considered an asset. An application including curriculum vitae; names of three references; and a statement of previous teaching experience and research interests should be submitted by May 31, 2002, to: **Bernhard H. J. Juurlink, Department of Anatomy and Cell Biology, University of Saskatchewan, 107 Wiggins Road, Saskatoon, SK, S7N 5E5 Canada**. For further information about the Department, check [website: http://www.usask.ca/anatomy/](http://www.usask.ca/anatomy/) and for the College and its programs, check [website: http://www.usask.ca/medicine/](http://www.usask.ca/medicine/). *The University is committed to Employment Equity. Members of designated groups (women, aboriginal people, people with disabilities, and visible minorities) are encouraged to self-identify on their applications. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.*

POSITIONS OPEN

Columbia University Department of Urology seeks **ASSOCIATE RESEARCH SCIENTIST** to study nutritional effects on urologic cancers. Must have Ph.D. and at least two years of experience. Please send curriculum vitae to **FAX: 212-305-0116** for consideration. *We are an Affirmative Action/Equal Opportunity Employer.*

The Harvard School of Public Health seeks a **PROFESSOR** and Director of its Center for Risk Analysis. Applicants should have a demonstrated record of scholarship in fields related to the work of the Center (most notably risk analysis or decision theory) as well as managerial experience and fundraising ability. Foci of research of the Center: methods of decision science; economic evaluation; risk assessment; and the application of those methods to medical technologies, automotive safety, environmental health, and food safety. The successful applicant will provide scientific leadership, teach, manage staff, and raise funds. He/she will have knowledge in risk-related policy at the interface of government and business; a clear vision of the appropriate role of formal analysis in decision making; and appreciation of the critical roles of science, economics, and politics in the design of successful public policy. Send statement of research interests, curriculum vitae, and the names of three references to:

**Professor Joseph P. Newhouse, Chair
Ad Hoc Search Committee
Harvard School of Public Health
677 Huntington Avenue, Number 1010
Boston, MA 02115**

Affirmative Action/Equal Opportunity Employer.

RESEARCH GROUP LEADER POSITIONS Molecular Physiology, Cell Biology, Developmental Genetics of Plants

ZMBP, Tuebingen, Germany. The Center has departmental structure; total size is 200 staff in 18 groups. Candidates are expected to set up a competitive research program to interact with other ZMBP groups and to teach plant physiology or developmental genetics. Language at the ZMBP is English. Positions are limited to six years. Salary is approximately 38,000 Euro (C1). The Center provides laboratory space and core funding (one technician, one Ph.D. student, budget, equipment funds). The successful candidate will benefit from common infrastructure (transformation, greenhouse, analytics, microscopy and computer support units, administration). For more information, contact: **W.B. Frommer (e-mail: wbf@zmbp.uni-tuebingen.de)** or **G. Juergens (e-mail: gerd.juergens@zmbp.uni-tuebingen.de)**. **Website: http://www.uni-tuebingen.de/ZMBP**.

The university is an Equal Opportunity Employer.

CAREER IN OPTOMETRY, OPTOMETRIC RESEARCH, OR TEACHING

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

POSITIONS OPEN

VISITING BIOLOGIST

The Department of Biology invites applications for a one-year appointment at the **ASSISTANT PROFESSOR** level to begin August 2002. Teaching responsibilities include introductory courses for non-majors and participation in the lower-level biology core requirements and upper-level elective courses in biology. Preference will be given to Biologists capable of teaching courses in plant biology such as ecology and diversity of Maryland plants. Applicants should have or expect a Ph.D. before the starting date.

St. Mary's College of Maryland, a state-supported, Carnegie Baccalaureate liberal arts institution located 70 miles southeast of Washington, D.C., in St. Mary's City, is Maryland's designated public honors college for the liberal arts. With highly selective admissions policies, academically talented students, and a rigorous curriculum, we have been labeled a "public Ivy." St. Mary's faculty benefit from a comprehensive program of support for scholarship, research, travel, curriculum development, and sabbaticals for pretenure and tenured faculty. The quality of life is enhanced by the recreational opportunities of the Chesapeake region and proximity to Washington, D.C., and Baltimore.

To apply, please submit a cover letter, curriculum vitae (including e-mail address), and three references to: **Chair, Biology Search Committee, 18952 East Fisher Road, St. Mary's College of Maryland, St. Mary's City, MD 20686-3001**. Visit our website: <http://www.smc.edu>. Review of applications will begin immediately and continue until the position is filled. *SMCM is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITIONS Genetics and Genomics Boston University Medical Center

A newly created academic department, Genetics and Genomics, has been established at Boston University Medical Center (BUMC). A number of faculty positions are available in two broad areas: chromosome biology and bioinformatics/genomics. The Department will complement major existing strengths in human genetics and bioinformatics at Boston University. Substantial resources and excellent facilities are available to support new faculty. BUMC is located in the heart of Boston, Massachusetts.

Bioinformatics faculty candidates interested in development of computational algorithms and software for mining biological data, modeling biological pathways, or protein structure prediction are sought.

Genomic instability studies that focus on molecular aspects of chromosome behavior using model organisms will also be a focus of the Department. Researchers using mice, worms, flies, frogs, and yeast are encouraged to apply. Send applications with e-mail addresses of three references to:

**Michael Christman, Ph.D.
Professor and Chair
Department of Genetics and Genomics
Boston University School of Medicine
715 Albany Street, E603
Boston, MA 02118
E-mail: mfc@bu.edu
Telephone: 617-414-1636
FAX: 617-414-1646**

POSTDOCTORAL POSITIONS Massachusetts General Hospital (MGH)

Molecular Pathology Research Unit, MGH-Harvard Medical School, has immediate openings for two Postdoctoral positions to study (1) molecular biology of human breast cancer (**Sgroi**) and (2) structure/function and design of transcription factors (**Joung**). Applicants must be U.S. citizens or permanent residents. Send curriculum vitae, letter of interest, and names of three references to: **Dr. D. Sgroi or Dr. K. Joung, MGH East, Molecular Pathology Unit, 149 13th Street, Charlestown, MA 02129**. E-mail: dsgrai@partners.org or jjoung@partners.org. *Equal Opportunity Employer.*

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The EJLB Foundation awards each year up to seven (7) grants for research projects in all areas of neuroscience that pertain directly or indirectly to schizophrenia and mental illness. Specific areas of support in the past have included: developmental neurobiology, synaptic mechanisms, systems and cognitive neuroscience, and clinical studies on the genetic and physiopathologic aspects of neurological and psychiatric disorders.

Eligibility for such grants is restricted to young scientists who are pursuing an independent research career and have given evidence of having significant potential. It is also a requirement that these scientists (i) have earned an MD and/or a Ph.D. degree; (ii) have completed their post-graduate training; and (iii) have been admitted after **June 15, 1997** as faculty members of a leading university, or an affiliated non-profit research centre, in Canada or elsewhere in the world.

Each grant is of CAN\$300,000, is disbursed over three (3) years and is non-renewable.

The next closing date for receipt of letters of intent is **May 1, 2002**.

Full details regarding this programme and required letter of intent forms may be obtained from:

The EJLB Foundation
1350 Sherbrooke Street West, Suite 1050
Montréal QC H3G 1J1
Canada
Fax: (514) 843-4080
Website: www.ejlb.qc.ca

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Posters accepted, abstract deadline is March 31, 2002.

For information: tel: 301-319-9462 fax: 301-319-9035
 EM: symposium@na.amedd.army.mil

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR Departments of Pharmacology and Medicinal and Biological Chemistry University of Toledo College of Pharmacy

The University of Toledo seeks an Assistant/Associate Professor with a Ph.D. in pharmacology, medicinal chemistry, chemical biology, or a related field for a joint tenure-track appointment in the Departments of Pharmacology and Medicinal and Biological Chemistry in the College of Pharmacy. The candidate will be expected to teach undergraduate and graduate-level courses in medicinal and biological chemistry and pharmacology and contribute to the development of the BSPS (undergraduate Bachelor's level) program in the College. The candidate will be required to develop and maintain an independent, externally funded research program. The research area is open and should be complementary to the existing strengths in both departments, which include neuropharmacology, molecular pharmacology, medicinal chemistry, biochemistry, drug design and development, immunology, drug metabolism, toxicology, pharmacoepidemiology, gene therapy, and clinical pharmacology. A competitive salary and start-up package will be provided. Submit curriculum vitae, a statement of research plans, and arrange for three letters of reference to be sent to: **Chair of Search Committee, Position Number 3193, MS 606, Departments of Medicinal and Biological Chemistry and Pharmacology, The University of Toledo, College of Pharmacy, Room BO2830, 2801 West Bancroft Street, Toledo, OH 43606.** The University of Toledo is an Equal Access/Equal Opportunity/Affirmative Action Employer and Educator.

THOMPSON PROFESSOR OF BIOENGINEERING

The College of Engineering, University of Missouri-Columbia (MU), seeks a national leader to fill the newly created position of William and Nancy Thompson **ENDOWED PROFESSOR** of bioengineering. MU College of Engineering has grown tremendously over the past six years. The new Biological Engineering Department is recruiting five additional faculty members including one at senior level. The Thompson Professor will provide leadership for a research program in bioengineering and facilitate the engineering contribution to the MU life sciences initiative. See **website:** <http://lifesciences.missouri.edu>. Applicants must have an earned Doctorate and qualify for tenure at a senior level with primary appointment in an engineering department. For more details, refer to **website:** <http://www.engineering.missouri.edu>. MU, a land grant institution, is designated a Doctoral/Research Extensive Institution by the Carnegie Foundation for the Advancement of Teaching. The breadth of MU's academic programming on-site is found at only five other universities in the nation. For the past 10 years, Columbia, Missouri, has been ranked as one of the top 20 places to live in the United States. Apply to: **Thompson Professor Search Committee, W1042 EBE, University of Missouri-Columbia, Columbia, MO 65211.** Telephone: 573-884-7872. Equal Opportunity Employer/Americans With Disabilities Act.

Two Veterans Affairs-funded **RESEARCH ASSOCIATE/POSTDOCTORAL** positions are available beginning April 1, 2002, for the study of pathogenic polyglutamine-containing proteins with emphasis on interactions with molecular chaperones, folding and aggregation, and signal transduction. Candidates should have a background in one of the following: molecular biology, biochemistry, or molecular neuroscience/transgenic models. U.S. citizenship is required by the funding source. Send curriculum vitae and the names of three references to: **Stephen Massa, M.D., Ph.D., Department of Neurology (127), SFVAMC and UCSF, 4150 Clement Street, San Francisco, CA 94121.** E-mail: massa3@itsa.ucsf.edu. Equal Opportunity Employer.

POSITIONS OPEN

ACADEMIC COORDINATOR/LECTURER

The Division of Biological Sciences seeks an outstanding biology **EDUCATOR/ADMINISTRATOR** to oversee and supervise the Division's undergraduate laboratory courses and other aspects of the undergraduate curriculum. Candidate is expected to teach at least two sections of one or more laboratory courses per year and will supervise and evaluate the performance of the temporary faculty assisting with laboratory instruction as well as a staff of six to eight laboratory technicians. S/he will also provide fiscal oversight (\$720,000 annual operating budget and \$1.2 million equipment inventory) for all teaching laboratories.

Applicants must have a strong record of excellence and innovation in teaching along with strong interpersonal, writing, and computer skills. A Ph.D. in one of the disciplines in the life sciences is required. The successful candidate will be able to demonstrate significant success at administrative and supervisory tasks. The position will hold the rank of **LECTURER** with potential for security of employment, which closely parallels that of an **ASSISTANT PROFESSOR** on track for tenure. It is a nine-month appointment with two summer months of compensation. Salary will be commensurate with background and experience and based on published University of California salary scale. Submit curriculum vitae, a cover letter explaining your interests in this career opportunity, and a list of three references including their full contact information to: **Sandra Brierley, University of California San Diego Division of Biology 0346-A, 9500 Gilman Drive, La Jolla, CA 92093-0346.** Applicants are strongly encouraged to submit their application materials before March 30, 2002, but the position will remain open until filled. Selected candidate is expected to be in residence by August 1, 2002. UCSD is an Affirmative Action/Equal Opportunity Employer with a strong institutional commitment to the achievement of diversity among its faculty and staff.

ASSISTANT PROFESSOR University of San Diego

The University of San Diego (USD), Department of Biology, invites applications for a new faculty position beginning in September 2003. The Department seeks applicants with expertise in aquatic invertebrate physiology to offer an upper-division course with laboratory and to participate in other upper-division and lower-division courses for biology majors. Preference will be given to candidates with expertise in molecular techniques. USD is an independent Catholic university whose primary aim is teaching excellence. Active scholarship is integral to this aim and the candidate is expected to have an ongoing research program that has the potential for undergraduate involvement. Applicants should submit curriculum vitae; a brief statement of teaching philosophy and research interests; and three letters of recommendation by March 15, 2002, to: **Chair, Department of Biology, University of San Diego, 5998 Alcalá Park, San Diego, CA 92110-2492.** Additional information about the University can be found at our **website:** <http://www.sandiego.edu>. USD is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

LIGHT MICROSCOPIST

Ph.D. with strong experience and understanding of digital light microscopy is sought to serve as **DIRECTOR** for widefield, deconvolution, scanning, and spinning disk confocal fluorescence microscopy facilities. \$45,000 per year plus benefits. For details, see **website:** <http://www.bio.indiana.edu/events/jobs/currentjobs.html>. Send résumé and three letters of reference to: **Margi Lockhart, Department of Biology, Indiana University, Jordan Hall, 1001 East Third Street, Bloomington, IN 47405.** Deadline: March 15, 2002. Will begin reviewing applications on February 25, 2002, and will continue until the position is filled. Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

The College of Oceanic and Atmospheric Sciences (COAS) at Oregon State University announces the availability of a tenure-track **FACULTY POSITION** in coastal atmospheric processes. Preference will be given to applicants at the **ASSISTANT PROFESSOR** level; however, applicants with an exceptional record of research achievements and other relevant experience may be considered at the Associate Professor level. COAS is one of the leading oceanographic and atmospheric graduate research institutions in the country with more than 200 faculty and staff members and a wide variety of assets including an excellent computing infrastructure, state-of-the-art analytical facilities, and two research vessels. We seek a colleague whose research will complement and enhance the existing nationally and internationally recognized coastal oceanographic and meteorological research programs within COAS, which include theory and modeling of ocean response to atmospheric forcing, *in situ* and remotely sensed observations of coastal ocean circulation and the atmospheric boundary layer, and mesoscale modeling of the coastal atmosphere. The appointee will be expected to develop and maintain a vigorous, externally funded research program; to interact with faculty colleagues; to advise and mentor graduate students; and to participate in the COAS teaching program. Essential qualifications include a Ph.D. in atmospheric sciences, oceanography, or a closely related field; a record of significant and innovative research; and the clear potential to attract external funding. The applicant should have a strong background in atmospheric dynamics or physics, preferably both. Research interests may include but are not limited to theory, modeling, or observation of mesoscale atmospheric phenomena in the coastal zone (such as flow over complex terrain); coastally trapped disturbances, coastal wind jets, and ocean-land breezes; the coastal atmospheric boundary layer over land and water; and dynamical or physical air-sea interaction processes near the interface. It is desirable that the candidate show an interest in collaborating with COAS colleagues involved in field-based research on coastal ocean-atmosphere-land processes. Interest or experience in mentoring or teaching of graduate students is also desirable. This position is funded by grant, education, and general funds.

Applications should consist of a letter of interest referencing position 005-515, detailed curriculum vitae that includes a description of current and future research interests, a list of publications, and the names and addresses of at least four references to: **Mark R. Abbott, Dean, College of Oceanic and Atmospheric Sciences, Oregon State University, 104 Ocean Administration Building, Corvallis, OR 97331-5503.** For full consideration, complete applications must arrive by 19 April 2002. Inquiries about the position may be directed to: **Dr. Steve Esbensen; Telephone: 541-737-5687; e-mail: esbensen@coas.oregonstate.edu; FAX: 541-737-2064.** Consult the COAS **website:** <http://www.coas.oregonstate.edu>. Oregon State University is an Affirmative Action/Equal Opportunity Employer.

ASSOCIATE DIRECTOR/DIRECTOR Research

Individual with strong scientific background and managerial skills to lead a team of four to six Scientists committed to identifying targets for cancer therapy using state-of-the-art methods in proteomics and genomics. The ideal candidate should apply experiences in protein and membrane biology, mass spectroscopy, and cell biology or pathology to guide the discovery research at the Seattle, Washington, site of a biotechnology company. The individual will work closely with collaborators at the Institute for Systems Biology and Scientists and management in Maryland. Previous industrial experience is an asset but not required. Compensation will be commensurate with previous work history and training. Candidates should send résumé to: **MacroGenics, Inc., Attention: Human Resources, 1500 East Gude Drive, Suite B, Rockville, MD 20850.** E-mail: hresources@macrogenics.com.

CALL FOR PROPOSALS

The Ministry of Education of the Republic of Hungary hereby invites proposals for the Szent-Györgyi Fellowship available from September 2002.

The objective of the Fellowship Programme is to enable outstanding Hungarian and foreign researchers living outside Hungary on a permanent basis to contribute to the scientific work carried out in Hungarian higher education institutions.

The Fellowship is available to researchers holding an academic degree (PhD, DLA) who live and work outside Hungary on a permanent basis. Proposals are required to be submitted by the Applicant and a Hungarian host university as a joint proposal. The existence of internationally acknowledged research results is a primary criterion of the Fellowship.

The Szent-Györgyi Fellowship is awarded by the Minister of Education of the Republic of Hungary.

The maximum duration of a Fellowship Programme is 12 months. The monthly gross amount of the Fellowship is HUF 1,000,000.

The detailed Call for Proposals and the Application Form can be downloaded from:

www.fpi.hu or www.om.hu (click on Pályázatok/Felsőoktatás) or obtained in hard copy from Hungarian Embassies and Cultural Institutes operating abroad.

Deadline for submitting proposals (arrival date):

26 April 2002

Office of Higher Education Programmes (FPI)
Szent-Györgyi Fellowship

H-1146 Budapest, Ájtósi Dürer sor 19-21.

Tel: (361) 3430588, Fax: (361) 3430587, E-mail: bielesik@fpi.hu

CONFERENCES

April 8-10, 2002 • Oak Ridge, Tennessee
Joint Institute for Neutron Sciences

Using Neutrons To Probe Structure and Dynamics in Biological Systems

This conference will introduce the biological community to new capabilities for the study of biological molecules being planned for the Spallation Neutron Source (SNS) and the High Flux Isotope Reactor at Oak Ridge National Laboratory.

- Introduce and update life scientists on advances in neutron scattering and its applicability to their research
- Identify new and exciting research opportunities that will have a high impact on the life sciences
- Emphasize the complementarity of microscopy, NMR, X rays, and neutron scattering
- Include a meeting of the users group for the Center for Structural Molecular Biology, a user facility at Oak Ridge National Laboratory
- Bridge the gap between theory and experiments using neutron scattering

Featured Speakers

D. Ringe, Brandeis University, USA and J. Zaccal, IBS CEA-CNRS, France

Registration Fee: \$200, scholarships for students and faculty are available. Register online at www.sns.gov/jins/biology2002.htm

Location: Pollard Auditorium, Oak Ridge, Tennessee

Contacts: Technical information - Ken Herwig, herwigkw@ornl.gov, (630) 252-5371
Local contact - Al Ekkebus, ekkebusae@ornl.gov, (865) 241-5644

Sponsors: Oak Ridge Associated Universities, University of Tennessee, Oak Ridge National Laboratory, Duke University, and Florida State University



SYMPOSIA

The 50th Annual Nebraska Symposium on Motivation

Motivational Factors in the Etiology of Drug Abuse

March 28 and 29, 2002

Invited participants:

Michael Bardo
Jaak Panksepp
Roger Spealman
Jane Stewart
Muriel Vogel-Sprott
Harriet De Wit
Roy Wise

Celebration Address:
George Koob

University Of
Nebraska
Lincoln

For more information visit
www.unl.edu/psychoneuropharm/symposium or contact Rick Bevins
(rbevins1@unl.edu)



The NIH Director's Lecture

Exploring the Scientific Basis of Complementary and Alternative Medicine

Stephen E. Straus, M.D.

Director, National Center for Complementary and Alternative Medicine
National Institutes of Health

Monday 3:00-4:00 p.m. (ET)
March 11, 2002

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10 Center Drive
Bethesda, MD

Watch live: <http://videocast.nih.gov>
More Info: <http://nccam.nih.gov>

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POSITIONS OPEN

STUDY COORDINATOR: Population Council, an international nonprofit social science/biomedical reproductive health research organization, seeks Coordinator for Phase III clinical trial of a vaginal microbicide. Will assist key personnel in preparing and implementing the trial. Responsibilities: Assist with financial management, data management, and data reviews; assist with development of operating procedures, case record forms, and trial materials; coordinate proposal/report submissions; liaise with developer on gel manufacturing and shipping to the trial sites; develop shipping schedules and coordinate shipments; establish/maintain regulatory file in New York; coordinate the trials portion of annual FDA report. Requires: M.P.H. or related degree; project management experience (preferably clinical trial or research project); strong organizational and administrative skills; knowledge of Outlook, Excel, Word, and PowerPoint (Access, Epi, or other data management programs preferred); ability to work with multicultural staff from various scientific disciplines; familiarity with budgets/donor proposals/reports; excellent oral/written English language skills; willingness to travel. Excellent benefits. Competitive salary. Send résumé and letter referencing Job Number 5/02 to: **Mr. Bilbao, Population Council, One Dag Hammarskjöld Plaza, New York, NY 10017. E-mail: jobs@popcouncil.org; FAX: 212-754-0963.** Complete information at **website: <http://www.popcouncil.org>.** Affirmative Action/Equal Opportunity Employer/Minority/Female.

FORMULATION SCIENTIST

Formulation Scientist needed by Eurand America, Inc., a drug delivery manufacturer in southern Ohio. Duties include studying the effect of pharmaceuticals on bacteria and other microorganisms in order to formulate time-delivered drug therapies in capsule and tablet form in consonance with the circadian variations of the human body. Performing pharmacokinetic modeling using Win Nonlin and Stella to determine the dosage and type of release needed for optimum drug delivery. Formulating drug requirements to determine optimum polymer matrix release of the drug. Performing coating of polymers onto drugs using fluid bed coater equipment and fluid bed coating techniques. Determining fill weight and compaction of beads and powders into capsules and determining tablet formulation requirements. M.S. degree in pharmaceutical science, microbiology, biology, or analytic chemistry. Must have taken graduate course(s) covering the following subjects: (1) pharmacokinetics and pharmacokinetics modeling using Win Nonlin and Stella, (2) polymer matrix release, (3) fluid bed coating, (4) capsule technology, and (5) tableting technology. Subjects may be studied in the same courses. Schedule: 8 a.m. to 5 p.m. Monday through Friday. Must be able to show legal authority to work permanently in United States. To apply, send résumé to: **Human Resources, Eurand America, Inc., 845 Center Drive, Vandalia, OH 45377.** Reference Job Order AA. No calls, please.

Two **POSTDOCTORAL POSITIONS** available. The first position is to study the effects of chaperones on proteins that cause neurodegeneration. Experience in molecular biology and biochemistry preferred. The second position is to generate a new transgenic mouse model for Huntington's disease and requires experience in molecular biology. The first position requires citizenship or permanent residency in the United States. For background information, see **website: <http://depts.washington.edu/phcol/fac/muchowski.html>.** To apply, e-mail curriculum vitae to **e-mail: muchou@u.washington.edu.**

PRESIDENT

Your qualifications include several years of experience at the **SENIOR EXECUTIVE** level and an in-depth knowledge of the lubricant manufacturing and marketing business. You need to possess an M.B.A. Please forward your résumé to: **Kaufman Holdings Corporation, 1020 King George Post Road, Fords, NJ 08863. FAX: 732-738-1087.**

POSITIONS OPEN

PROGRAM DIRECTOR ARCTIC SOCIAL SCIENCES PROGRAM National Science Foundation Arlington, Virginia 22230

NSF's Office of Polar Programs is seeking qualified applicants for the position of Program Director in the Arctic Social Sciences program. The Program Director will have primary responsibilities involving proposal evaluation, project development and support, program planning, and related administrative duties. Additional responsibilities will include coordination of Arctic Section and Foundationwide education efforts and advising on logistics requirements of the Arctic social science community. Applicants must have a Ph.D. or equivalent experience in a social science discipline. Six years of successful research experience beyond the Ph.D. are required. The Announcement (E20020047A), which includes position requirements and application procedures, is located on NSF's Division of Human Resource Management **website: <http://www.nsf.gov/home/menus/jobs.htm>.** Announcements may also be obtained by contacting **Fredrick Person; Telephone: 703-292-4369.** Hearing-impaired individuals may call **TDD Telephone: 703-292-8044.** Applications must be received by March 1, 2002. NSF is an Equal Opportunity Employer committed to employing highly qualified staff that reflect the diversity of our nation.

SENIOR BIOTECHNOLOGIST Riverdale, Maryland

This **FULL-TIME POSITION** is a key position in the Biotechnology Policy unit of Policy and Program Development (PPD) in the Animal and Plant Health Inspection Service (APHIS) of the U.S. Department of Agriculture. The Biotechnology Policy unit was designed to facilitate processes to help ensure a consistent, agencywide approach to biotechnology program planning and issue management. The position offers leadership in coordinating interaction among APHIS biotechnology program experts, trade specialists, Scientists, policy makers, and regulatory entities who are stakeholders in the biotechnology area. Applicant must have completed a full four-year course of study in an accredited college or university leading to a Bachelor's or higher degree that included a major field of study or specific course requirements. Applicant must have one year of specialized experience performing the range of duties as outlined above. Recruiting at the GS-14 level; salary range: \$78,265 to \$101,742. For a full copy of this Announcement 24-73-456, call our **FAXback: 1-800-585-7407** or visit us at **website: <http://www.aphis.gov/mb/mrphr/vacancy.html>.** Deadline: April 1, 2002.

RESEARCH STAFF ASSOCIATE Columbia University

Research Staff Associate needed in the Department of Neurology, Columbia University. Requirements include postgraduate degree and laboratory research experience emphasizing the molecular mechanisms associated with human mitochondrial diseases. Strong background in molecular biology and biochemistry is necessary. Research environment is stimulating, and salary and fringe benefits are commensurate with experience and the applicant's professional background. Respond to: **Eric Schon, Ph.D., College of Physicians and Surgeons of Columbia University, 630 West 168th Street, New York, NY 10032.** Columbia University is an Equal Opportunity/Affirmative Action Employer.

SCIENTISTS RESEARCH ASSOCIATES Medicinal Chemistry

How to apply: **FAX** your résumé to **FAX: 510-293-6857** or mail it to: **Metabolex, Inc., Human Resources Department, 3876 Bay Center Place, Hayward, CA 94545.**

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

POSITIONS OPEN

SENIOR STAFF FELLOWS

FDA, Center for Biologics Evaluation and Research, Office of Vaccines Research and Review, Division of Bacterial Products, has immediate openings for two Senior Staff Fellows who would be expected to develop independent research programs concerning the pathogenesis, genetics, and/or immunology of *Bacillus anthracis*, *Yersinia pestis*, or *Shigella dysenteriae*. A third position is sought to initiate an independent program to develop methods to assess the quality and clinical performance of current and new-generation vaccines against potential agents of bioterrorism. The selected candidates would also be expected to participate in the regulation of bacterial vaccines. Laboratories are located on the NIH campus in Bethesda, Maryland. Appointment is for an initial two-year period and may be extended up to seven years by mutual agreement. This appointment is equivalent to a tenure-track appointment, i.e., the candidate would be eligible for conversion to a permanent position if successful. Candidates must have an advanced degree, e.g., Ph.D. or M.D., and at least two years of postdoctoral experience and must be either U.S. citizens or resident aliens eligible for citizenship within four years. Salary depends on training and experience. Candidates should send curriculum vitae, bibliography, statement of research interests, and names/contact information for three references to: **1401 Rockville Pike, HFM-123, Rockville, MD 20852-1448. E-mail: recruitment@cber.fda.gov.** All correspondence should reference Walker-SSF. FDA is an Equal Opportunity Employer. This agency provides reasonable accommodations to applicants with disabilities.

POSTDOCTORAL ASSOCIATE POSITION

A Postdoctoral position for one to three years is available at the Pacific Northwest National Laboratory (PNNL) in Richland, Washington. A Doctorate in biochemistry, pharmacology, or a related biomedical field is required. The project examines the degradation and trafficking of a protein in the endoplasmic reticulum in response to oxidative stress. The candidate will be expected to utilize a variety of biochemical, molecular, and proteomic techniques. Strong written and oral communication skills are required. Prior experience in basic techniques for protein manipulation, primary cell culture, and immunocytochemistry are also beneficial. Annual salary range is \$36,100 to \$57,700. Potential candidates should submit their résumé to Job Number 103486 at **website: <http://jobs.pnl.gov/>.** PNNL is an Equal Employment Opportunity Employer.

FOREST HYDROLOGY POSITION

ASSISTANT PROFESSOR, Department of Forestry, University of Kentucky. 12-month, tenure-track research/teaching position. Qualifications: Ph.D. and specialization in forest hydrology or forest watershed management. Background in forestry required. Candidates are sought who recognize the importance of the interactions between biological and physical processes. Deadline: April 15, 2002. Full job announcement and application procedures available at **website: <http://www.uky.edu/Agriculture/Forestry/forestry.html>.** Contact: **Dr. Jeffrey W. Stringer** for further information at **Telephone: 859-257-5994; e-mail: stringer@uky.edu.**

Obstetrics/gynecology at Ohio State University seeks a highly qualified **RESEARCH SCIENTIST** with a Ph.D. degree in chemical engineering and postdoctoral training in biology to lead the tissue engineering program in the Laboratory of Perinatal Research. See **website: <http://hr.osu.edu/es/jobsort.htm>** for details. Send résumé to: **Dr. Douglas Kniss, 1654 Upham Drive, Fifth Floor Means Hall, Columbus, OH 43210. E-mail: kniss.1@osu.edu.** Equal Opportunity Employer.

POSITIONS OPEN

RESEARCH FELLOWSHIP with an emphasis in clinical pharmacogenomics available immediately for recent M.D. or M.D./Ph.D. The selected Fellow will work to identify genetic predictors of mental health disorders and treatments in a large patient population with psychiatric disorders such as depression, PTSD, and Alzheimer's disease. Research training will include patient identification and recruitment, DNA informed consent, sample acquisition and banking, clinical evaluation, genetic target identification, mining genomic databases to identify candidate polymorphisms, high-throughput genotyping technology, and data analysis. This two-year Fellowship is an interdisciplinary program that aims to train Psychiatrists to become outstanding clinical neuroscience Researchers in high-priority areas of mental health and will provide excellent preparation for an academic career. The program combines individualized, mentored research with a state-of-the-art curriculum. Applicants must have completed ACGME-accredited specialty residency training in psychiatry; be Board eligible or Board certified; and have an active, unrestricted U.S. license to practice. International medical graduates must also have a current visa and an ECFMG certificate that is valid indefinitely. Applicants on a J-1 visa must also have current ECFMG sponsorship. Stipends are based on previously completed ACGME-accredited residency training. To request an application, contact: **Greer Murphy, M.D., Ph.D., Psychiatry Neuroscience, MSLS P-104, Stanford University School of Medicine, Stanford, CA 94305-5485. E-mail: gmurphy@stanford.edu.**

VICE PRESIDENT OF RESEARCH

AmCyte, Inc., a leader in cell/tissue transplantation, is seeking a highly qualified individual to lead its strong research team devoted to the growth and differentiation of pancreatic cells for the treatment of diabetes. The individual will report to the Senior Vice President of research and development. Ph.D. or M.D. with a strong track record on mammalian cell culture and development. The candidate will be well organized and capable of directing multiple, highly complex research activities; possess a strong work ethic; be goal oriented with a hands-on approach; and have a proven track record in building and leading successful research organizations. A compensation, equity, and relocation package will be designed to attract high-quality candidates. Interested candidates please apply in strict confidence via e-mail: **hrcode123@amcyte.com**; FAX: 310-453-6178; website: **http://www.amcyte.com.**

POSTDOCTORAL POSITIONS Functional Genomics and Glycobiology

Positions available immediately to study biogenesis of glycosylphosphatidylinositols and the yeast cell wall. Projects include identification of antifungal drug targets and glycosyltransferase enzymology. We are seeking Ph.D.s with expertise in one or more of the following areas: isolation and analysis of carbohydrates and glycolipids, expression and isolation of membrane proteins, and fungal molecular genetics. For information, see website: **http://www.scs.uiuc.edu/~bioch/orlean.html**. Send curriculum vitae, publication list, and names and addresses of three professional references to: **Peter Orlean, Ph.D., Department of Biochemistry, University of Illinois, 309 Roger Adams Laboratory, 600 South Mathews Avenue, Urbana, IL 61801 U.S.A. E-mail: p-orlean@uiuc.edu.**

POSTDOCTORAL POSITION available to study novel innate immunity genes in transgenic mice, humans, and mammalian cells *in vitro*. Send curriculum vitae and names, e-mail addresses, and telephone numbers of references to: **Dr. Roman Dziarski, Indiana University School of Medicine, 3400 Broadway, Gary, IN 46408. Website: http://www.medlib.iupui.edu/nwcme/smplesdk.html; e-mail: rdziars@iun.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITION Nitric Oxide Research/Endothelial Dysfunction

A Postdoctoral Fellowship position is available immediately for an NIH-funded project to investigate the interactions of ascorbate and thiols with endogenous storage forms of nitric oxide (NO) in vascular tissue. Applicants must have received a Ph.D. in physiology/pharmacology or a related discipline within the past five years and should have a strong background in biochemistry and signal transduction. Experience with microelectrode and organ bath techniques or HPLC is desirable. Knowledge in the cardiovascular field would be a strong asset. Persons with less experience would be considered for a **RESEARCH ASSOCIATE** position. Interested candidates should send their curriculum vitae with a list of publications, statement of research interest, and names of three references to:

Dr. Martin Feelisch
Department of Molecular and Cellular Physiology
Louisiana State University Health Sciences Center
1501 Kings Highway
Shreveport, LA 71130-3932
Website: **http://www.shreveportphysiology.com**
Affirmative Action/Equal Opportunity Employment.

POSTDOCTORAL POSITION Physiology; Molecular and Cell Biology; and Genetics/Genomics of Diabetes, Obesity, and Other Complex Diseases University of Maryland, Baltimore

The Divisions of Endocrinology, Diabetes, and Nutrition and Gerontology seek highly qualified and motivated Postdoctoral Fellows. The position requires a Ph.D. degree in genetics, cell biology, molecular biology, physiology, exercise, nutrition, or related field and an interest in basic or clinical research. The candidate will work with Geneticists, Molecular Biologists, Physiologists, Epidemiologists, and Statisticians conducting research in diabetes, obesity, osteoporosis, cardiovascular disease, and aging research. Positions are for two to three years funded by an NIH training grant; therefore *U.S. citizenship or permanent residency is required*. Please send curriculum vitae and two letters of recommendation to: **Alan R. Shuldiner, M.D., University of Maryland School of Medicine, 660 West Lombard Street (Room S420), Baltimore, MD 21201-1192. The University of Maryland is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS available to study the immunopathogenesis of HIV and human cytomegalovirus (CMV). Areas of HIV research examine the immunologic response to HIV during active infection and immune reconstitution; the interaction of HIV with dendritic cells; and the impact of chemokine, chemokine receptor, and cytokine genotypes on HIV pathogenesis including the impact on mother-to-infant transmission, disease progression, and the development of CNS impairment. CMV research examines immunopathogenesis, interactions with dendritic cells, and role of chemokines and cytokines in CMV pathogenesis. Experience in cellular immunology required. Applicants must have spoken and written fluency in English. Applicants should provide curriculum vitae and three letters of recommendation to: **Stephen A. Spector, M.D., University of California, San Diego, Stein Research Building, 9500 Gilman Drive, La Jolla, CA 92093-0672. E-mail: saspector@ucsd.edu.**

POSTDOCTORAL/RESEARCH ASSOCIATE MOLECULAR NEUROSCIENCE Washington University, St. Louis, Missouri

A position for a **MOLECULAR BIOLOGIST** with background and/or interests in neurobiology, studying structure and function of metabotropic glutamate receptors. Submit curriculum vitae to: **Carl Romano, Ph.D.; e-mail: romano@vision.wustl.edu; FAX: 314-362-3720.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS Vascular Cell and Molecular Biology Harvard Medical School

Immediate openings for Postdoctoral Fellowships in the Vascular Research Division, Departments of Pathology, Brigham and Women's Hospital, to study (1) structure and function of proteins that constitute endothelial cell junctions and regulate leukocyte trafficking during inflammation (*J. Cell Biol.* **148**:203, 2000; *J. Immunol.* **167**:2323, 2001); (2) T lymphocyte-endothelial cell adhesion and signaling with emphasis on biochemical and molecular identification of selectin ligands (*Nature* **398**:718; *J. Immunol.* **162**:3193; *J. Immunol.* **167**:4476); (3) intravital microscopy (IVM) techniques for leukocyte-blood vessel wall interactions focusing on endothelium and its junctional components during inflammation (see website: **http://fwl.bwh.harvard.edu**). Requires recent Ph.D., M.D., M.D./Ph.D. and strong background in molecular biology, intracellular signaling, and biochemical techniques. Send curriculum vitae, brief description of research, and names/telephone numbers of three references to: **Dr. F. W. Lusinskas, Brigham and Women's Hospital, Boston, MA. FAX: 617-582-6188; e-mail: flusinskas@rics.bwh.harvard.edu. We are an Equal Opportunity Employer.**

COURSES

Short course on time-resolved fluorescence spectroscopy. The Center for Fluorescence Spectroscopy at the University of Maryland School of Medicine is offering a short course on "Principles and Applications of Time-Resolved Fluorescence Spectroscopy" in Baltimore, March 25-29, 2002. The course will cover basic and advanced topics in fluorometry including time- and frequency-domain measurements and Forster energy transfer. Advanced topics include chemical sensing, imaging, fiber optics, infrared fluorometry, two-photon excitation, instrumentation, confocal and multiphoton microscopy, protein fluorescence, DNA technology, high-throughput screening, metal-ligand probes, correlation spectroscopy, lanthanides, and immunoassays. Textbook, course materials, lunches, and refreshments will be provided. For further information, a schedule, and fees, please contact: **Ms. Mary Rosenfeld or Professor J. R. Lakowicz, CFS, Department of Biochemical and Molecular Biology, 725 West Lombard Street, Baltimore, MD 21201. Telephone: 410-706-8409; FAX: 410-706-8408; e-mail: cfs@cfs.umbi.umd.edu; website: http://cfs.umbi.umd.edu.**

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