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AssayZap is a small (it comes on a single floppy disk), efficient program with a clean interface that can be used to acquire and analyze data from scintillation counters and microplate readers. Counters and plate readers typically have a serial interface that allows data to be transmitted to a PC; AssayZap comes with a built-in wizard that offers automatic translation from some 31 different instruments. The 32-bit version of AssayZap (which runs on Windows 95 and higher) can also actively communicate with the instrument to start the measurement process.

Program layout is simple with separate, linked windows for methods, data, analysis results, graphs, and notes. The method file accommodates 96- and 384-well plate formats and allows one to establish positive and negative controls, as well as standard curves (with up to 10 replicates) and unknowns. Standard curves are automatically fit, and as many as four can be analyzed to account for assay drift over a large number of samples. Graphical display is straightforward, and the output, though suitable for pasting into lab books, is not of publication quality. The program is a reliable laboratory tool that has been thoughtfully designed to meet the needs of users in their everyday work. For example, a method file can store a "graveyard" of all previous standard curves, allowing for quality control results that can compare the most recent standard curve with the "graveyard" results, allowing ready assessment of within- and between-assay performance.

The program adopts a unique approach to data analysis. First, the form of the standard curve is defined in the method file. AssayZap can deal with sigmoid curves (increasing and decreasing slopes), curves with extended dynamic ranges (characteristic of immunoradiometric assays), and linear curves. Three data-fitting routines are supplied (2- and 4-parameter logistics and a weighted version of the latter), which use a regression algorithm. Once the objective fit is completed, the user can selectively delete points and refit or manually "nudge" and smooth the curve in different places. This approach gives one considerable control over how the standard curve is constructed. Though such an approach, at first sight, seems unduly subjective, the easy comparison of the results of previous calibrations allows effects on inter-assay performance to be readily evaluated.

In summary, AssayZap is an excellent value. It focuses on the real analytical needs of those carrying out plate reader- or scintillation counter-based assays and, unlike proprietary software, is not dependent on particular instruments.

—Tony Cass

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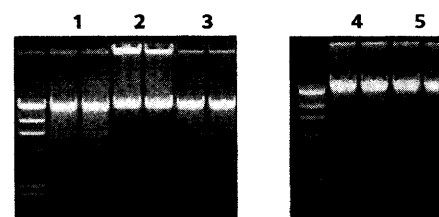
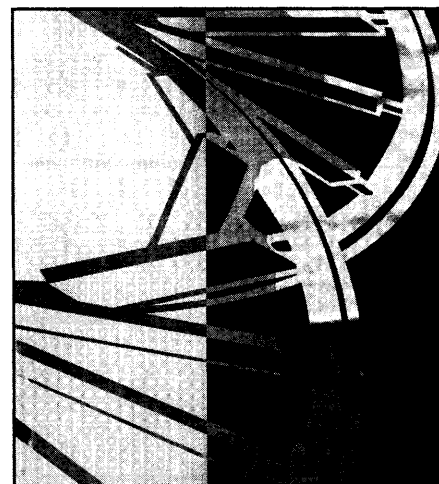
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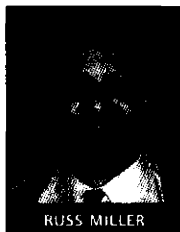
Information Interpretation

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Successful sequencing of the genomes of humans and other organisms has stimulated the emergence of genomics and proteomics, along with vast amounts of data that must be processed intelligently. That has opened the way for specialists in several types of informatics, most notably bioinformatics.

At present, trained bioinformaticists have a huge advantage. The supply is far smaller than the demand by academic, government, and industrial laboratories. On the other hand, it hasn't been easy so far to obtain the necessary training in the field. That situation has started to change, however. In the past two years several universities have started to offer Bachelor's, Master's, and doctoral degrees in bioinformatics, many of them supported by government funding.

What backgrounds do students need to register for those courses and subsequent careers in bioinformatics? Solid training in life science with some exposure to computing represents one path. But computer scientists with some feel for biology can also qualify. Few potential employers express a preference, although some bioinformatics tasks demand more scientific understanding than others. Here, representatives of a university, a government institute, and a corporation discuss the current need for specialists in informatics and the career prospects for individuals adept in the field.



RUSS MILLER

BUFFALO, New York: Created in 1999, the Center for Computational Research at the University at Buffalo, State University of New York has become a major focus for academic and industrial informatics. "We support about 100 projects in 30 different departments across the university," says center director Russ Miller. "We also work with a variety of companies in western New York who are able to benefit from access to high-performance computing, high-end visualization, and expertise in these areas."



BRUCE PITMAN

The existence of the center played a major role last year in the designation of the University at Buffalo, in collaboration with the nearby Roswell Park Cancer Institute and the Hauptman-Woodward Medical Institute, as a New York State center of excellence in bioinformatics. "There is significant expertise and a wealth of longstanding, leading-edge bioinformatics projects in the region," Miller says. "The recently announced center of excellence in bioinformatics is serving as a catalyst to elevate the level of activity, retain high-quality researchers, and recruit top-notch scientists and staff."

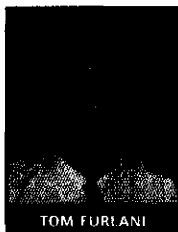
» IBM Life Sciences

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The focus on bioinformatics includes training. "We're developing Ph.D., Master's and undergraduate level programs in bioinformatics," says Bruce Pitman, vice provost for educational technology at the University at Buffalo. "We're looking for students to start in September of this year. We're also developing a degree in medical or health informatics that will probably start to take students in fall 2003. And we have a battery of professional Master's degrees in computational chemistry, computational biology, and environmental geographic information systems that will start in September."

Students for Master's degrees will typically enter a standard university department, such as biology, and then pursue course work in bioinformatics. "We'll give courses in computer science and biology to expand their backgrounds," says Pitman.



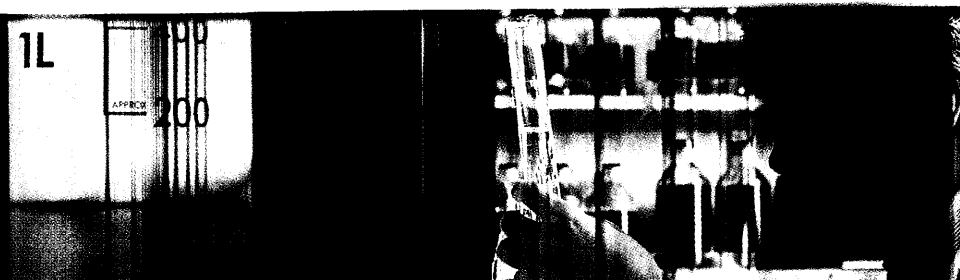
TOM FURLANI

The center and the university employ individuals for informatics tasks as well as training them. "We're trying to hire people with expertise in bioinformatics," says Tom Furlani, associate director of the computational research center. Does the center prefer applicants trained in life science who have a facility for computing or computer scientists with some knowledge of biology? "It's almost impossible for one person to do all the work," Furlani says. "We've found that pairing up life scientists and computer scientists on a task is a good idea."

As the Buffalo group sees it, young scientists who want to become adept in informatics should acquire a breadth of experience. "It's a mis-

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take to come out with skills in just a narrow area," says Furlani. "We encourage students to get as diverse a background as they can." Pitman agrees. "Get a solid background in a field and a good understanding of another discipline," he advises.



JIM CASSATT

BETHESDA, Maryland: "Bioinformatics is terribly important to us, as biology is moving from breaking down living things into their smallest components to putting them back together," says Jim Cassatt, acting director of the Center for Bioinformatics and Computational Biology at the National Institutes of Health's National Institute of General Medical Sciences (NIGMS). The Center, created last year, funds academic institutions that want to develop advanced training programs in bioinformatics. "These are all peer-reviewed programs from universities," Cassatt explains. "Our judgment is: Is this program suitable for our needs?"

Legislation requires that the center and NIGMS support only Ph.D. training programs. The institute also requires the programs to be interdepartmental and cross-disciplinary, involving mentors, courses, and research activities in both life sciences and computer science.

So far, NIGMS has funded bioinformatics programs in three institutions: Stanford University, the University of California, San Diego, and



MARION ZATZ

Washington University, St. Louis. "The programs have been up and running for only about one year," says Marion Zatz, a health scientist administrator for bioinformatics programs supported by NIGMS. "If students stay through to the end they will probably take five years to earn their doctorates."

The institutions that receive the grants set their own criteria for entry to the programs. Thus they must decide whether to accept more computer scientists who can learn the essentials of life science or more biologists who can pick up computing skills. "The logic is that it's easier to train a computer scientist than a biologist," says Cassatt. "I don't have any evidence one way or another. In the past some biologists have had trouble with math, but that may not be true any more." In any case, adds Zatz, faculty members who run the programs look for the same qualifications. "First," she says, "applicants need strong academic credentials. It's also useful to have some research experience in computer science or the biological sciences. Communication is also part of it. You can't do research if you can't communicate."

What employment opportunities await graduates once they have received their Ph.D.s in bioinformatics? "My guess is that there will be a heavy tilt toward industry," says Zatz. "But my hope is that we'll also be training faculty members who will train the next generation of bioinformatics specialists."

How can young life scientists prepare themselves to participate in doctoral level courses in bioinformatics? "At the undergraduate level take math," advises Cassatt. "Most biologists stay away from it. Also, take courses in computer programming."



JEFF AUGEN

SOMERS, New York: IBM Life Sciences has a computational biology research center and an informatics group staffed by roughly 90 scientists in total and growing at an annual rate of about 10 percent. "The research part of our business is a core value to us," explains division director Jeff Augen. "We're focused on building platforms and solutions. To do that we have to have scientists with broad-based skills, which include bioinformatics. We need individuals who really understand the discipline."

Those individuals can face a recruiting difficulty that stems from the changing nature of the bioinformatics business. "About a year ago there were many bioinformatics companies in the marketplace," says Augen. "The ones who focused exclusively on bioinformatics went out of business. Those who linked bioinformatics to drug discovery were successful. You can't do bioinformatics in the absence of drug discovery." That fact has changed the hiring approach of IBM Life Sciences. "We have a more intense focus on individuals who have backgrounds in both biology and computer science," Augen explains. "But since only a few academic training programs have started so far, we look for the more technically oriented biologists."

Change is also a theme of the work that bioinformatics specialists undertake in industry. "Work on molecular modeling and protein folding involves quantum mechanics. For that you basically need to find physicists who have taken some biology or chemistry," Augen says. "On the sequence homology side and pattern discovery the interesting questions are biological. The computer programming part is not so complex. That's where we look for people with backgrounds in biochemistry and molecular biology and some computer programming experience."

Where does Augen find those specialists? "It's virtually impossible to get them from industry as they're in such high demand and the salaries are so high," says Augen. "So basically we get them right out of graduate school. Some of the very best schools, such as Rochester Institute of Technology and Yale University, are beginning to offer very rigorous degree programs in bioinformatics."

Although a Ph.D. in computer sciences or biology is an important credential, Augen notes that an undergraduate degree in computer science with an additional two years of focus in biology or biochemistry provides a sufficient bioinformatics background for most corporate settings. "People will get a Bachelor's degree in computer science or math and then go on for two years to get a bioinformatics Master's," he notes. "It's hard to imagine that you would need eight years to obtain a degree in bioinformatics unless you specifically want to pursue an academic career."

Scientists considering bioinformatics as a career should make sure from the start that they feel comfortable with the field's challenges. "Take some molecular biology courses to find out if those types of problem are interesting to you and you understand them," advises Augen. "Then find people who hire bioinformatics specialists – in a pharmaceutical company, for example – to find out what careers they have." ■

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You will provide leadership in the development, deployment and application of microarray technologies in new areas. Working with scientists from different disciplines, you will evaluate and optimize new microarray technologies in a variety of biological research, industrial and clinical applications. You will coordinate across sites and functions to define best practices and methods for system-wide analysis of gene expression and biological pathways (immune responses, host-pathogen interactions), including the identification of new tools and methods for the analysis of expression information.

A Ph.D. in Molecular Biology, Biochemistry, Chemistry, Microbiology, Immunology, Bioinformatics or equivalent, plus six-eight (6-8) years of previous relevant experience are required.

GENE EXPRESSION STATISTICIAN

As part of a dedicated microarray team, you will be responsible for statistical analysis of gene expression data in support of Research and Product Development projects. You will take the lead in the analysis of complex multivariate data sets, develop appropriate error models and assist biologists in assigning confidence thresholds to experimental data. You will be expected to have familiarity with industry-standard clustering algorithms, and develop novel analysis methods as needed. A background in physics, applied mathematics, or statistics would be appropriate.

You have an advanced degree in Physics, Statistics, Applied Mathematics or equivalent, plus three-five (3-5) years of previous relevant experience.

Qualified candidates should submit their resume, asap, to Human Resources as follows: via **Fax: 416-667-2252**, via our **website: www.aventispasteur.com** or via mail:

**Aventis Pasteur Limited
1755 Steeles Ave. West
Toronto, ON
Canada
M2R 3T4**

TransForm Your Career

TransForm Pharmaceuticals is reinventing how pharmaceutical products are being developed today. We offer a sophisticated set of integrated high throughput technology platforms to optimize new and improved drugs by identifying new forms and/or formulations. We will use this technology to identify proprietary products and support our partners to create novel products that make a meaningful difference to the patients we serve.

Discovery Project Leader Physical/Organic Chemistry

You will design and oversee discovery strategy for the identification of novel compounds against molecular targets. This will include configuring assays for HTS, implementing secondary assays to characterize leads, and establishing collaborations to assess efficacy of lead compounds. Ideal qualifications include a PhD in Physical/Organic Chemistry with 3 years relevant experience, preferably in industry.

Senior Medicinal Chemist

You will lead an interdisciplinary team focused on specific product initiatives in discovery and/or pre-clinical development. This will involve designing/building a chemical compound library through compound acquisitions and in-licensing. Ideal qualifications include a PhD in Synthetic Organic/Medicinal Chemistry with 5 years pharmaceutical industrial experience.

We offer a highly competitive compensation and benefits package, including equity participation. For more information, visit our website at www.transformpharma.com. Then email your resume to careers@transformpharma.com. TPI is an Equal Opportunity Employer.



T R A N S F O R M
p h a r m a c e u t i c a l s



Senomyx, Inc.

Senomyx seeks to be the leader in discovering new and improved proprietary taste and fragrance molecules for use in a wide range of consumer products. Senomyx's integrated technology platform combines an enhanced understanding of the biology of taste and smell with many of the same technologies and advancements that pharmaceutical companies have recently begun using to more efficiently discover new medicines. Senomyx is incorporating receptor biology, combinatorial chemistry, high-throughput screening and bioinformatics into an integrated technology platform designed to enable the rapid, efficient discovery of new and improved proprietary molecules.

Senomyx, Inc. is currently accepting applications for the following positions:

- Scientist - Ion Channel Electrophysiologist
- Scientist - Genomics Technologies
- Scientist - High Throughput Screening of Ion Channels
- Scientist - Biology
- Scientists - Synthetic Chemistry
- Research Associate - Production Chemistry
- Director - Project Management

Senomyx offers competitive salaries, benefits and stock options. For more company information and detailed job descriptions, please visit our website at www.senomyx.com.

Equal Opportunity Employer.



Creating Drugs That Regulate Gene Expression

Located in South San Francisco, Tularik (Nasdaq: TLRK) is engaged in the discovery and development of a broad range of novel and superior orally available drugs that act through the regulation of gene expression. Tularik's research addresses cancer, immune disorders, and metabolic diseases. Our development pipeline is robust, with four drug candidates in clinical trials. We have an excellent opportunity for a talented senior research scientist to join our expanding drug discovery program as an expert in the mammalian CNS.

Principal Investigator, CNS Pharmacology

This individual will be expected to initiate research efforts in neuroscience and work to build and direct a research team focused on the study of novel receptors and signaling pathways, and to guide their successful development as innovative drug targets. Taking a lead role in multidisciplinary studies that will include molecular, genetic, electrophysiological, and behavioral approaches, the successful candidate must have extensive in vivo animal physiology and pharmacology experience and a strong background in neurological disorder research. The candidate will participate in multiple aspects of drug discovery research, and work together with a talented multidisciplinary team to characterize and validate novel G protein-coupled receptors with potential involvement in neurological therapeutic indications. Prerequisites for this position include a Ph.D. degree or equivalent in the biological sciences, a record of at least five years of highly successful research experience in either the academic or private sector, and drug discovery experience in the neuroscience area. In addition, this individual must have demonstrated supervisory, leadership, communication, and organizational skills and the proven ability to effectively work both independently and as part of an integrated team.

Tularik's collaborative and stimulating research environment fosters innovation, creativity and excellence. If you are a talented scientist ready to take on a challenging role, we want to hear from you. Tularik offers stock options, a competitive salary and benefits package, and an exciting work environment where your contributions will make a difference. Detailed job descriptions and company information, including a bibliography of Tularik's highly cited research publications, can be found on our web site at www.tularik.com. If you are interested in joining an ambitious and dynamic company, please send your CV by e-mail to: resume@tularik.com. EOE

www.tularik.com

PRE- and POSTDOCTORAL TRAINING IN MAMMALIAN GENETICS

The Jackson Laboratory, a non-profit research center, provides a unique research environment with unparalleled resources for training in animal models of development and disease.

Areas of expertise include:

Cancer, Developmental Biology, Aging, Genetics of Complex Traits, Genomics, Immunology/Hematology, Metabolic Diseases, Neurobiology, Bioinformatics/Statistical Genetics, Cryopreservation/Assisted Reproduction

Letters of application should include: Curriculum vitae, statement of research interests, list of publications, and names of three references. Predoctoral program is in conjunction with the University of Maine and is limited to US citizens or permanent residents.

To apply contact:

Suzanne Serreze
Box 116-S

The Jackson Laboratory
600 Main Street

Bar Harbor, ME 04609

Phone: 207-288-6420

FAX: 207-288-6079

email: sbs@jax.org

(Please reference code "SC" when you apply)

<http://www.jax.org>

EO/AA Employer

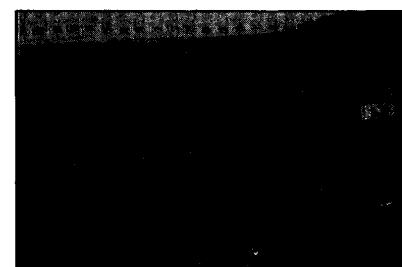
FACULTY RECRUITING IN BIOINFORMATICS/ COMPUTATIONAL BIOLOGY

The Jackson Laboratory (www.jax.org) is expanding its strong faculty and programs in bioinformatics and computational biology. TJL faculty pursue biological questions in mammalian genomics and biology in a highly collaborative and stimulating intellectual environment.

With the rapid growth of the mouse as a primary research platform for understanding human biology and disease, we see major prospects for new advances and exciting discoveries. TJL, by bringing computational scientists together with the world's largest group of mammalian geneticists, provides an ideal environment for future success and development of cooperative programs.

Presently, TJL offers a suite of public databases integrating genomic and biological information (www.informatics.jax.org), maintains programs in statistical genetics, provides substantial infrastructure support for these efforts and conducts a series of scientific and computational courses and conferences.

As an NCI-designated basic Cancer Center, our stated mission is to improve the quality of human life through discoveries arising from our own genetics research and by enabling the research and education of others. We believe that current opportunities for realizing this mission are greater than they have ever been.



The Jackson Laboratory has a long history of scientific achievement and a vibrant culture. Bar Harbor, adjacent to Acadia National Park, provides a wonderful family environment and a unique quality of life.

We invite talented scientists at all levels to indicate their interest in joining us. Applicants should have a Ph.D. and/or M.D., postdoctoral training, and a record of research excellence. Candidates will be expected to develop a competitive, independent research program.

Applications should include: Curriculum vitae, statement of research interests, and names of three references. Send to:

The Director's Office rsp@jax.org
The Jackson Laboratory www.jax.org
600 Main Street
Bar Harbor, Maine 04069 EO/AA Employer



Creativity and innovation is our focus. Quality and integrity are our watchwords. Respect for the individual guides us.

Environmental Sciences

Assistant/Associate Professor

The University of Texas School of Public Health at Houston

The University of Texas School of Public Health at Houston invites applications for two tenure-track positions at the Assistant or Associate Professor level in the Environmental Sciences Discipline. Applicants should have research interests in environmental toxicology or molecular-environmental microbiology and employ mechanistic approaches to the understanding of toxicant or microbial action. Candidates who have expertise in xenobiotic metabolism or in molecular aspects of microbial contaminants are encouraged to apply.

The successful candidate will be expected to establish an independent, extramurally-funded research program and contribute to the educational mission of the School through teaching and advising graduate students, as well as perform community service. Excellent collaborative opportunities exist at the Southwest Center for Occupational and Environmental Health, the Center for Infectious Diseases, and the Human Genetics Center, as well as other institutions within the Texas Medical Center, the world's largest medical complex.

Qualifications include: (1) earned doctorate in toxicology, microbiology, or in a related field that has potential for application to the basic environmental sciences; (2) commitment to excellence in teaching and advising graduate students; (3) established track record in interdisciplinary collaboration and extramurally-funded research; and (4) excellent written and oral communication skills. Academic rank will be determined by the qualifications of the candidates.

Review of applicants will begin immediately and continue until the positions are filled. Applicants should submit a letter of interest describing their qualifications and research plans, C.V., and contact information for three professional references as file attachments to Thomas.H.Stock@uth.tmc.edu, or by mail to: Thomas H. Stock, Ph.D., M.P.H., Chair, Environmental Sciences Faculty Search Committee, The University of Texas Health Science Center at Houston, School of Public Health, 1200 Herman Pressler Drive, W-622, Houston, TX 77030.



THE UNIVERSITY of TEXAS
HEALTH SCIENCE CENTER AT HOUSTON

The University of Texas is an Equal Opportunity/Affirmative Action Employer. Minorities and women are strongly encouraged to apply. This is a security-sensitive position and thereby subject to Texas Education code § 51.215.



McGill

Bioinformatics (Faculty Position)

The Institute of Parasitology is seeking to appoint a tenure track faculty member with experience and research interests in bioinformatics. Candidates may be nominated for a Canada Research Chair. The appointee will hold a PhD and have an interest in the application of bioinformatics to parasite systems. S/he will also become a member of the new McGill Centre for Bioinformatics, a multi-disciplinary group bringing together expertise from several Faculties across the University. We are seeking applicants with demonstrated research experience in genome mining, functional genomics, comparative genomics and proteomics: experience in parasite biology would be an advantage. The successful applicant will be expected to develop a research program supported by external funding and to teach in the undergraduate and graduate programs. McGill has a dynamic research community with a commitment to develop research and teaching in the Life Sciences, Genomics and Proteomics. Forward a CV, a summary of your proposed research plans and the names of 3 referees by July 15, 2002 to:

Associate Professor Terry Spithill, Director,
Institute of Parasitology, McGill University,
2111 Lakeshore Rd, Ste Anne de Bellevue,
Quebec, Canada, H9X 3V9
For further information, see
<http://www.mcgill.ca/parasitology/>
or call (514) 398-7722.

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents of Canada will be given priority. McGill University is committed to equity in employment.

reNEWAL. It's one of the core values at IDEC Pharmaceuticals. We invite you to explore the future possibilities and growth that accompany opportunities at IDEC Pharmaceuticals. We pride ourselves in the excellence of our team members and invite you to join us in San Diego.

SR. SCIENTIST I, R&PD (Autoimmunity/Oncology)

In this research leadership role, you will identify and characterize novel drug targets and develop and characterize antibody therapeutics in autoimmunity/oncology. You will be expected to design and conduct *in vitro* and *in vivo* experiments to support antibody mechanism of action studies. You will establish goals and relate them to staff, maintain a safe and productive work environment and act as an intellectual resource providing substantive information on research and drug development strategies. We are seeking a candidate with at least 7 years post-PhD experience in immunology as it relates to cancer and/or autoimmunity with 5 or more years supervisory experience preferred. A strong scientific publication record and excellent work ethic are also required. Excellent team management, interpersonal and written/oral communication skills are essential.

For immediate consideration, please send your resume and salary history, indicating Job Code 478, to IDEC Pharmaceuticals Corporation, Attn: HR, Unit #220, PO Box 3175, Burlington, MA 01803. Email to hr_info@idecpharm.com. NASDAQ/IDPH. For more information visit our website at www.idecpharm.com. EOE.

IDEC
Pharmaceuticals Corporation®

JGI
DOE JOINT GENOME INSTITUTE

Deputy Director Production Genomics Facility

The Production Genomics Facility (PGF) is the operational site for the high throughput, large-scale genomic sequencing and genomic research of the Department of Energy's Joint Genome Institute, a consortium of scientists, engineers and support staff from the Berkeley, Livermore, and Los Alamos National laboratories.

In this key position, you will manage and provide leadership for PGF operations, including the 3 core activities – Production Sequencing, Computational Genomics, and Functional Genomics. We'll rely on you to ensure the highest quality operational effectiveness, plan for the development of future capabilities, develop standards for research performance, ensure program excellence, and provide technical and scientific guidance in all 3 core areas. A record of success in the management of large-scale research and research/production operations, the ability to provide technical and scientific leadership, and experience establishing effective collaborations are essential. Excellent communication and interpersonal skills and a commitment to constructive change and improvement are also important. A PhD in Biochemistry or Molecular Biology is preferred.

For detailed information on this and other job opportunities, visit us at <http://www.jgi.doe.gov/>. For immediate consideration, please email your resume to jobs@cuba.jgi-psf.org (no attachments please), mail it to Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, or fax to (925) 296-5656. Reference Job # GN/014885/JS in your cover letter. EOE



POSTDOCTORAL POSITION
Genome Technology Branch
National Human Genome Research Institute
National Institutes of Health

A Postdoctoral research position is available immediately for an individual interested in vertebrate genetics and genome analysis at the National Human Genome Research Institute (NHGRI).

Establishing technologies for using microarrays as a tool to study vertebrate development. This position is a collaboration between two labs in the NHGRI and will utilize a recently developed and comprehensive microarray of zebrafish genes to study aspects of vertebrate development on a genome-wide scale. Particular research areas include establishment of the blood lineages and development of the vertebrate ear and hearing. Funding is for 3 years initially with the possibility of extending for 2 years more.

The National Human Genome Research Institute at the National Institutes of Health in Bethesda provides an exciting scientific environment in one of the largest biomedical research facilities in the world.

Candidates should possess an MD and/or PhD and have less than five years of postdoctoral experience. Applications will be accepted until the position is filled. Please send a letter, CV, and three letters of reference to: **Dr. Shawn Burgess c/o Ms. Erika Schwab, NHGRI/NIH, 50 South Dr., Bldg. 50, Rm. 5531, Bethesda, MD 20892-8004 (or dgsapply@nhgri.nih.gov).**

The NIH is an Equal Opportunity Employer and applications by women and minorities are strongly encouraged.

Tenure - Track Position
National Institutes of Health (NIH)
Structural Biophysicist

The Laboratory of Biophysical Chemistry (LBC) National Heart, Lung, & Blood Institute, NIH, the premier biomedical research institution in the U.S., seeks an independent, world-class physical scientist to develop a vigorous and highly innovative program of basic research in the area of macromolecular structures and/or dynamics. Areas of special interest include, but are not limited to, high-energy x-ray crystallography and femtosecond x-ray diffraction studies. The LBC currently consists of 6 principal investigators working in broad areas of structural biophysics.

Applicants must be highly motivated and have a demonstrated track record through publications that have addressed significant biological problems. A generous package has been allocated for startup. In addition, this position will be fully funded through the NHLBI Intramural Research Program, and postdoctoral positions will be made available for the candidate to insure the highest possible productivity. The successful candidate should expect to be tenured within 6 years.

The successful candidate will be offered a competitive salary commensurate with experience and qualifications under Title 42. Appointees must be U.S. citizens, resident aliens, or non-resident aliens with a valid employment authorized visa.

Applicants should submit a curriculum vitae, bibliography, a brief statement of research interests and future plans, and arrange for three letters of reference to be sent to:

Ms. Christine Fisher, Human Resources Branch
National Heart, Lung, and Blood Institute
31 Center Drive, MSC 2484, Building 31, Room 5A28
Bethesda, MD 20892-2484

Please include vacancy identifier, **HL-02-0058** on ALL correspondence. Applications must be received no later than **July 15, 2002**.

NIH is an Equal Opportunity Employer. Applications from women, minorities, and persons with disabilities are strongly encouraged. The NHLBI/NIH is a smoke-free workplace.



Statistical Genetics
Tenure-Track Investigator
Mood and Anxiety Disorders Program
National Institute of Mental Health
Bethesda, MD, USA

The Section on Developmental Genetic Epidemiology, Experimental Therapeutics and Pathophysiology Branch in the Mood and Anxiety Disorders Program at the National Institute of Mental Health, Intramural Research Program is recruiting a scientist for a tenure-track position to develop research in statistical genetics in a new cross-institute program in neurogenetics. The candidate will have the opportunity for collaboration with scientists in diverse research areas in genetics (i.e., genetic epidemiology, biostatistics, statistical genetics, molecular genetics), as well as neuroscience and relevant clinical disciplines. The candidate is expected to have an M.D. or a Ph.D. in (1) biostatistics; (2) population or human genetics; or (3) genetic epidemiology. The applicant should have experience and interest in statistical analysis of genetic studies, and in developing new methods or adapting traditional statistical methods to identify the role of genes in the etiology of complex disorders. This position includes an attractive start-up package and operating budget in an exciting multidisciplinary research environment. Preference will be given to candidates with a background and interest in complex disorders, particularly neuropsychiatric disorders. Applicants should send a curriculum vitae, statement of research interests, and three letters of recommendation to Dr. Kathleen Merikangas (kathleen.merikangas@nih.gov), Search Committee, National Institutes of Health, 15 K North Drive, MSC#2670, Bethesda, MD 20892, by November 1, 2002.

NIH is an equal opportunity employer



Genetic Epidemiology
Tenure-Track Investigator
Mood and Anxiety Disorders Program
National Institute of Mental Health
Bethesda, MD, USA

The Section on Developmental Genetic Epidemiology, Experimental Therapeutics and Pathophysiology Branch in the Mood and Anxiety Disorders Program at the National Institute of Mental Health, Intramural Research Program, is recruiting a scientist for a tenure-track position to develop research in genetic epidemiology in a new cross-institute program in neurogenetics. The candidate will have the opportunity for collaboration with scientists in diverse research areas in genetics (i.e., genetic epidemiology, biostatistics, statistical genetics, molecular genetics), as well as neuroscience and relevant clinical disciplines. The candidate should have an M.D. or Ph.D. in (1) epidemiology; (2) genetic epidemiology; (3) human genetics; or (4) psychology. In addition, the applicant should demonstrate significant experience in the design, implementation and/or analysis of genetic epidemiologic studies of complex diseases. This position includes an attractive start-up package and operating budget in an exciting multidisciplinary research environment. Preference will be given to candidates with a background and interest in complex disorders, particularly neuropsychiatric disorders. Applicants should send a curriculum vitae, statement of research interests, and three letters of recommendation to Dr. Kathleen Merikangas (kathleen.merikangas@nih.gov), Search Committee, National Institute of Mental Health, 15 K North Drive, MSC#2670, Bethesda, MD 20892, by November 1, 2002.

NIH is an equal opportunity employer





The University of South Florida invites nominations and Applications for the position of:

Vice President for Research

The University of South Florida invites nominations and applications for the position of Vice President for Research. As the chief research officer of the University, the Vice President reports to the President and is responsible for the administration, service, and promotion of the USF research program, including government, the community, and the University.

Established in 1956, USF has secured national and international respect as a leading research university by achieving the highest classification by the Carnegie Foundation: Doctoral/Research University-Extensive. In FY 2000/01, USF researchers were awarded over \$186 million in external funding. With four campuses in the Tampa Bay area, USF has an enrollment of over 37,000 students in 9 colleges and offers baccalaureate degrees in 79 fields, 95 master and specialist programs, and 32 doctoral programs.

USF seeks a visionary leader prepared to guide the University to even greater national and international stature. The Vice President must be committed to fostering excellent research in all fields of scholarly and creative endeavor and have significant administrative experience, demonstrated leadership ability, and an established record of funded research accomplishments. In keeping with USF's strategic goals, the University seeks an individual with a strong commitment to interdisciplinary research and experience in developing research infrastructure and successful partnerships with industry, government, and the community. Applicants must have an earned doctorate and qualify for appointment as a tenured Full Professor.

Additional information about USF Research and this position is available at <http://www.research.usf.edu>. Please direct applications and nominations to: Dr. Louis A. Martin-Vega, Chair, Search Committee for Vice President for Research, University of South Florida, 4202 E. Fowler Avenue, ENB118, Tampa, FL 33620.

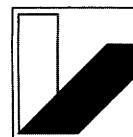
Applications should include a current curriculum vitae, a list of four references, and a detailed letter describing the candidate's relevant experience and qualifications. Applicant screening will begin on June 30, 2002 and will continue until the position is filled.

The State of Florida has a Public Meeting Law and a Public Records Law and all university searches are conducted under the terms thereof. All meetings of the search committee are publicly announced and conducted. All Documents submitted to the committee are treated as open material with the exception of evaluative documents specific to the performance of the faculty of the State University System of Florida concerning health or disabilities.

The University of South Florida is an equal opportunity, affirmative action, equal access institution. For disability accommodations, contact Linda Federspiel at (813) 974-3787 at least five working days in advance of need.

4202 E. Fowler Ave, Tampa, FL 33620 • www.usf.edu

INFORMATICS



UNIVERSITÄT
BAYREUTH

Associate Professor

Bioinformatics/ Structural Biology

The University of Bayreuth, Germany, is seeking a scientist for a full-time, tenured professorship to spearhead our bioinformatics program. Extensive opportunities exist for collaboration in the fields of NMR-spectroscopy and X-ray crystallography of proteins and nucleic acids within the «Bayreuth Center of Molecular Biosciences», and strong interaction with the newly founded «Institute of Applied Informatics» is expected. Computing resources and research facilities in the field of molecular structural biology are excellent. The successful candidate will teach bioinformatics for students of biochemistry, biology, biophysics, and applied informatics.

A Ph.D., postdoctoral experience, and demonstrated productivity in research and teaching are required. Salary is according to C3 of the German government scale. The University of Bayreuth is an equal opportunity employer, and applications by women and physically handicapped are strongly encouraged.

Applications including cv, list of publications, and a short description of research plans should be sent by July 13 to Dr. Paul Rösch Dean, Faculty II of Natural Sciences, University of Bayreuth, 95447 Bayreuth, Germany, paul.roesch@uni-bayreuth.de +49 921 553540. Inquiries are welcome.

CAREERS in INFORMATICS

New Faculty Positions 2002 - 03 Department of Basic and Pharmaceutical Science

The Department of Basic and Pharmaceutical Science at Albany College of Pharmacy seeks applicants for new tenure and non-tenure track faculty positions. Applicants are sought to complement existing faculty in both teaching and research with possible joint appointment with the Pharmaceutical Research Institute at Albany.

Medicinal Chemistry/Organic/General Chemistry: Qualified candidates will possess a PhD in organic/medicinal chemistry, analytical biochemistry or related discipline. Job responsibilities include teaching undergraduate courses in general/organic chemistry, or organic/medicinal chemistry.

Molecular Biology/Genetics/General Biology: Qualified candidates will possess a PhD in molecular biology, physiology, genetics or related discipline and have previous teaching experience. Job responsibilities include teaching undergraduate courses in molecular biology, general biology, biochemistry or genetics.

Mathematics/Informatics: Qualified candidates will possess a PhD in mathematics, statistics or related discipline and have previous teaching experience. Job responsibilities include teaching undergraduate courses in calculus or statistics and developing electives in advanced mathematics or information systems.

Tenure track faculty are expected to have post-doctoral experience and to establish a fundable research program.

The Albany College of Pharmacy is a private college offering a six-year Doctor of Pharmacy program, and a four-year baccalaureate program in Pharmaceutical Science. The College will be expanding four-year degree programs in Biomedical Technology over the next three years. The campus is located in Albany and is part of University Heights Consortium which is comprised of Albany College of Pharmacy, Albany Medical Center, Albany Law School and the Sage Colleges.

Please send CV, statement of research interests and names of three references to: Dr. Jeff Voigt, Albany College of Pharmacy, 106 New Scotland Ave., Albany NY 12208. Review of applications will begin immediately and will continue until positions are filled.

Albany College of Pharmacy is an Equal Employment Opportunity/Affirmative Action Employer.



INSTITUTE DIRECTOR AND CENTER DIRECTORS

Duke University invites applications for leadership positions in the Institute for Genome Sciences and Policy (IGSP). The IGSP represents Duke's comprehensive response to the broad challenges of the genomics revolution, and builds upon the expertise offered by academic divisions across the University, including the Medical Center, Trinity College of Arts and Sciences, the Pratt School of Engineering, the Nicholas School of Environment and Earth Sciences, the School of Law, the Sanford Institute of Public Policy, and the Kenan Institute for Ethics. The IGSP comprises five Centers: **Human Genetics, Models of Human Disease, Genome Technology, Bioinformatics and Computational Biology, and Genome Ethics, Law and Policy.**

Applications and nominations are invited for the position of **Institute Director**. We seek an individual with outstanding leadership skills to provide vision in developing, coordinating, and overseeing the research, educational, and policy-planning missions of the Institute. The University has committed substantial resources to the IGSP, including funds for the construction of several new buildings and for the recruitment of the Center Directors and affiliated faculty who will develop nationally visible programs in areas represented by the five Centers. Candidates for the IGSP Director position are expected to have an established reputation in interdisciplinary research with prominent international recognition in one or more these areas.

Applications and nominations are also invited for the positions of **Center Director for Models of Human Disease** and **Center Director for Genome Technology**. Candidates for these positions must have established reputations in their fields, outstanding leadership skills, and proven abilities to work in an interdisciplinary research environment.

Further information about the Duke IGSP can be found at: <http://www.genomics.duke.edu/>. Applicants should submit a copy of their curriculum vitae, a statement addressing research interests and leadership goals, and 3 references to: IGSP Search Committee, c/o Elaine Fitzsimons, Box 2927 DUMC, Durham, NC 27710, or electronically to fits001@mc.duke.edu



Duke University is an Equal Opportunity/Affirmative Action Employer



**ASSISTANT/ASSOCIATE/
FULL PROFESSOR**

**(Biological Computation/one or
more positions)**

**Center for Applied Information
Technology and Learning
(LSU CAPITAL)**

This year, Louisiana State University (LSU) has received \$7 million in new, recurring funding to lead an Information Technology initiative that is aimed at building research capacity and promoting economic development and diversification throughout the state. LSU has formed a Center for Applied Information Technology and Learning (LSU CAPITAL) (see our website at: www.lsu.edu/lrucapital/) to foster a vibrant interaction among all faculty engaged in information-technology research and teaching, and expects to hire between three and four dozen new faculty in several interdisciplinary "cluster" areas of information technology. Advances in transdisciplinary, information technology based research will profoundly influence the future of the biological sciences. LSU CAPITAL seeks to strengthen ongoing interdisciplinary efforts in biological computing and visualization by establishing a cluster area based on the hiring of outstanding tenure-track faculty at the Assistant, Associate, or Full Professor levels. Faculty will be jointly appointed within appropriate departments and LSU Capital. Interdisciplinary research thrusts encompassing the basic and applied sciences, engineering, and medical disciplines will be enhanced by this initiative. Of particular interest are senior faculty members with the capability to seed a cluster in biological computation. Clusters of interest could span any area of modern biology including:

- development of computational algorithms and mathematical theory to solve biological problems
- genomics, proteomics, macromolecular structure and function
- biological system, physiological, cellular and molecular modeling and simulation
- development of drug and vaccines, biosensors and intelligent biondiagnostics, or biomaterials

Required Qualifications: Earned doctorate degree in Engineering, Science, Mathematics, or a closely related field. Salary level and rank will be commensurate with qualifications and experience. We expect to make several senior interdisciplinary hires, and will consider hiring an appropriately configured interdisciplinary group should the opportunity arise. Review of folders will begin on August 1, 2002 and will continue until all LSU CAPITAL positions are filled. Please submit applications complete with curriculum vitae, names of three references, and statement of research and educational interests to: **Dr. H. Silverman, Biological Computing Search Committee, 338 Choppin Hall, Louisiana State University, Ref: Log #1019, Baton Rouge, LA 70803.** Questions regarding the position can be directed to exsilv@lsu.edu or fax to: (225) 578-8826.

*LSU IS AN EQUAL OPPORTUNITY/EQUAL
ACCESS EMPLOYER*

CHAIR

Department of Immunology

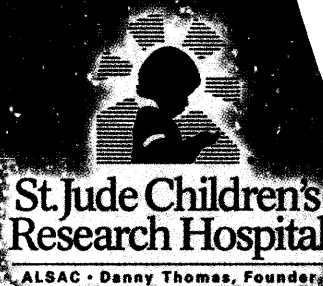
St. Jude Children's Research Hospital (SJCRH), a premier center for biomedical research, is seeking a visionary leader to expand new initiatives and research programs for the Department of Immunology. The Department is currently undergoing a major expansion, and the new Chair will direct this process by recruiting several new faculty and building on the current strengths of the Department. Under the leadership of the Nobel Laureate, Dr. Peter Doherty, the Department has attracted highly competitive research programs on immune cell signal transduction, immunodeficiencies, T-cell and humoral immune responses to viruses and vaccine development. The Department of Immunology now occupies state-of-the-art laboratories in a newly constructed Integrated Research Center. The Chair of Immunology is an endowed position.

Immunology at SJCRH is a crucial component of the ongoing expansion of SJCRH's research environment, which has recently included the formation of the Children's Infection Defense Center (CIDC), a Department of Structural Biology, expansion of the Cancer Center, development of the Hartwell Center for Bioinformatics and Biotechnology, and expansion of programs in genetic diseases. A major strength of the Institute is highly productive interactions between existing research disciplines, which allows faculty of the Immunology Department to collaborate with investigators from other Departments including Biochemistry, Developmental Neurobiology, Hematology/Oncology, Infectious Diseases, Molecular Pharmacology, Pathology, Pharmaceutical Sciences, Structural Biology, and Genetics and Tumor Cell Biology. Outstanding core facilities support all research programs of the Institution. A Good Manufacturing Practices (GMP) facility is also nearing completion and will provide capabilities for the development and on-site production of vectors, vaccines, antibodies, and small molecule therapeutic agents.

SJCRH is a clinical and basic research institute that focuses on the causes and treatment of catastrophic childhood diseases including cancer, infectious diseases and genetic disorders. Founded by Danny Thomas in 1962, the hospital currently includes 180 basic and clinical faculty organized within a traditional academic environment. SJCRH continues to receive support through the fundraising efforts of the American Lebanese Syrian Associated Charities (ALSAC).

Candidates should have a Ph.D. and/or M.D. degree, a highly competitive research program, an international reputation and a distinguished record of scholarly achievement. Applicants should send a letter of interest and include a curriculum vitae, a brief discussion of scientific goals and the names of three references to:

IMMUNOLOGY SEARCH COMMITTEE
c/o John L. Cleveland, Ph.D., Chair
Department of Biochemistry
332 N. Lauderdale
St. Jude Children's Research Hospital
Memphis, TN 38105



St. Jude Children's Research Hospital is an
Equal Opportunity/Affirmative Action Employer.

www.stjude.org



University of Heidelberg

The **Center for Molecular Biology** of the University of Heidelberg (ZMBH) invites applications for a

Full Professorship in Molecular Biology (C4)

The successful candidate will contribute to the research and teaching activities at the ZMBH in molecular and cellular biology.

Research and teaching programmes are summarized at the ZMBH's web-side (<http://www.zmbh.uni-heidelberg.de>)

The ZMBH presently houses 14 independent research groups and offers an excellent research environment including central facilities for biomolecular chemistry, biocomputing, light microscopy, animal house with transgenic services, as well as centralized administration and technical services.

The position is available for an indefinite period. However at the first appointment of a professorship, the public employment under § 67 par. 1 UG has to be temporary in principle. Exceptions can be possible, particularly if candidates from abroad or from fields other than University are interested in the position. A new appointment procedure is not required should the employment be continued after expiry.

The University of Heidelberg wants to increase the quota of women in the scientific area and therefore especially invites qualified women to apply.

Applications should be received by the **Director of the ZMBH, Prof. Dr. Renato Paro, Im Neuenheimer Feld 282, D-69120 Heidelberg, Germany.** The closing date for applications is 4 weeks after the appearance of this advertisement.



MOUNT SINAI
SCHOOL OF
MEDICINE

Senior/Junior Postdoctoral Research Associates

The Mount Sinai School of Medicine, a leader in medical education and research, has several postdoctoral research positions available immediately within its molecular biophysics program. Research topics include investigation of the structural dynamics and energetics of protein-DNA interactions, especially in relation to DNA repair; investigation of structure-function relationships within transmembrane proteins involved in signaling (e.g., G protein-coupled receptors and connexins); and investigation of selectivity of peptide-protein interactions in relation to antigen recognition and protein-protein interactions in blood clotting. The research combines theory at various levels, including Monte Carlo and molecular dynamics simulations; molecular modeling; and quantum chemical calculations. Associates will have access to a multiprocessor parallel SGI computer, as well as supercomputer facilities.

Applicants should have a strong background in theoretical biophysics, statistical mechanics and/or biophysical chemistry. For consideration, send CV and names of three references to: **Dr. Roman Osman, Department of Physiology and Biophysics, Box 1218, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029. E-mail: roman.osman@mssm.edu.** More details can be found at: <http://physbio.mssm.edu/~osmanlab/>. EOE

Endowed Professorship in Orthopaedic Cell Biology

**Department of Orthopaedic Surgery
Vanderbilt University
Nashville, Tennessee**

Vanderbilt University Department of Orthopaedic Surgery and Rehabilitation seeks a senior, recognized scientist to enhance its research goals in cell and developmental biology of the musculoskeletal system. This individual will occupy the Mary Phillips Edmonds Gray Chair of Tissue Engineering and will be responsible for fostering an individual and collaborative research environment in orthopaedics and allied fields such as cell or cancer biology. The supervision of graduate students and participation in residency and post graduate teaching programs are important responsibilities.

Candidates must have a Ph.D., M.D., or equivalent degree and have expertise in skeletal, cartilage, or matrix cell/developmental biology with an emphasis on organogenesis. The ideal candidate is an established investigator, with secure extramural funding, who wishes to strategically grow a comprehensive musculoskeletal tissue engineering laboratory within orthopaedics and Vanderbilt University. Orthopaedic surgery is in the midst of a concomitant faculty and facility growth phase.

Send letter of intent with brief statement of research and teaching interests, curriculum vitae, copies of select publications, and a list of three professional references with complete contact information to:

**Herbert S. Schwartz, M.D.
Vice Chairman of Research
Department of Orthopaedic Surgery and Rehabilitation
Vanderbilt University
Nashville, TN 37232-2550
e-mail: herbert.s.schwartz@mcmail.vanderbilt.edu**

*Vanderbilt University is an Affirmative Action,
Equal Opportunity Employer.*

Biotechnology



Diversa Corporation is a leader in the discovery and development of novel enzymes and other biologically active compounds from diverse environmental sources for use in the agricultural, chemical, industrial and pharmaceutical applications. We are looking for:

Scientists with 5 years or more experience developing protein therapeutics for clinical development. Successful candidates will have a PhD in biochemistry, molecular biology or a related science and experience with expressing and engineering antibodies. ELISA, cell culture assay and animal model development knowledge is highly desirable. Strong computer and data analysis skills are necessary and the ability to work in a fast-paced environment is required.

Scientists with a degree in biology or chemistry and preferred background in enzymology. Successful candidates will have experience in an industry research position preferably in enzymology and relevant experience in conducting laboratory experiments, organizing and documenting data and analyzing results. Experience in organic chemistry, HPLC, and/or biocatalysis is a strong plus.

Diversa offers competitive salary, comprehensive benefits, stock options, and a dynamic work environment. To learn more about our exciting technology, visit our website at www.diversa.com. Send resumes to smackey@diversa.com or fax to 858-526-5036.

**Diversa Corporation
4955 Directors Place, San Diego, CA 92121**

Be an NCI Cancer Prevention Fellow

THE NATIONAL CANCER INSTITUTE (NCI) sponsors the Cancer Prevention Fellowship Program (CPFP). Its purpose is to train individuals from a multiplicity of health professions and biomedical science disciplines to become leaders in the field of cancer prevention and control.

What will I get out of the program?

- Master of Public Health degree
- NCI Summer Curriculum in Cancer Prevention
- Mentored research opportunities at the NCI
- Professional development and leadership training

What areas of cancer prevention research are available?

- Chemoprevention
- Clinical/Translational Research
- Early Detection/Biomarkers
- Epidemiology
- Ethics and Evidence-Based Decisionmaking
- Intervention Studies
- Laboratory-Based Research
- Primary Prevention
- Social and Behavioral Research
- Statistical Methodology

Am I eligible?

You must have a doctorate degree (M.D., D.D.S., D.O., J.D., Ph.D. or equivalent). Foreign education must be comparable to that received in the United States.

You must also be either a citizen of the U.S. or a resident alien eligible for citizenship within 4 years at the time of application (September 1).

How long is the program?

Fellows are accepted for up to 5 years of training beginning in July. The typical duration is 3 years (year 1: M.P.H.; years 2-3: NCI Summer Curriculum and mentored research).

When are applications due?

Applications are due September 1, 2002, for entry into the program July 1, 2003.

How do I apply?

To receive a catalog*, contact:
Douglas L. Weed, M.D., M.P.H., Ph.D.
Director, Cancer Prevention
Fellowship Program
National Cancer Institute
6130 Executive Boulevard (EPN)
Suite 3109, MSC 7361
Bethesda, MD 20892-7361

* Please provide home address, telephone, e-mail, and where you heard about the program.

Further inquiries:

Mrs. Barbara Redding
Phone (301) 496-8640
Fax (301) 402-4863
E-mail br24v@nih.gov

For more information visit our Web site at:

<http://cancer.gov/prevention/pob/>
<http://resresources.nci.nih.gov/links.cfm>

Selection for these positions will be based solely on merit, with no discrimination for non-merit reasons, such as race, color, gender, national origin, age, religion, sexual orientation or physical or mental disability. NIH provides reasonable accommodations to applicants with disabilities. If you need reasonable accommodation during any part of the application and hiring process, please notify us. The decision on granting reasonable accommodation will be handled on a case-by-case basis.

THE NATIONAL CANCER
INSTITUTE IS AN EQUAL
OPPORTUNITY EMPLOYER.

The Idaho National Engineering and Environmental Laboratory, INEEL, is seeking to fill positions in the recently established Subsurface Science Initiative.

Computer Modeler/Scientists

One position will be concerned with the use of inverse modeling methods to obtain information concerning subsurface structure from geophysical measurements, and the focus of other position will be on the modeling of coupled transport, geochemical and biological processes. We are interested in the subsurface behavior of both organic and metallic contaminants. Both positions will employ computer modeling to motivate and support large scale (1m to 10m) experiments, and the development of models that can be used to bridge the gap between laboratory experiments and field scale applications will be a major objective. We are interested in individuals who will develop a vigorous externally funded individual research program, which will be integrated with the Subsurface Science Initiative. The Subsurface Science Initiative conducts research to reduce the cost of cleanup at contaminated Department of Energy sites, reduce the uncertainties in predicting the fate and transport of subsurface pollutants and improve long term monitoring and stewardship. Both positions are open at all levels, but preference will be given to candidates who hold a Ph.D. in Physical Science, Geoscience/Hydrology or Engineering Science with a strong background in computer modeling (5-10+ years' research experience preferred). U.S. citizenship is not required but is highly desirable.



Idaho National Engineering and Environmental Laboratory

Qualified applicants should send a letter of application and a resume, and have four letters of recommendation sent to Dr. Paul Meakin, Subsurface Science Initiative, INEEL, P.O. Box 1625, Mail Stop 2025, Idaho Falls, Idaho 83415-2209. Evaluation of applications will begin on August 1st and will continue until the positions are filled.

Equal Opportunity Employer



**OREGON HEALTH & SCIENCE UNIVERSITY
ANNOUNCES A NEW DEPARTMENT OF
BIOMEDICAL ENGINEERING
AND A SEARCH FOR ITS FIRST CHAIR**

THE POSITION: The OGI School of Science & Engineering at OHSU seeks a leader for its new Department of Biomedical Engineering.

RESPONSIBILITIES: Develop a unique focus for research and training; recruit outstanding faculty and students; develop interdisciplinary educational programs; build collaborative linkages with the larger university; foster partnerships with the regional biotech community; secure external programmatic funding and encourage technology transfer and commercialization of research discoveries.

QUALIFICATIONS: A strong background in engineering or another quantitative science and relevant experience within a biomedical field; a record of success as an independent scholar; an entrepreneurial spirit; capacity to represent the department effectively to external constituencies; familiarity with commercializing intellectual property, a commitment to translational research and successful technology transfer; an understanding of a research university's role in the economic development of its region and state; a record of successful fiscal management and academic credentials suitable for a senior faculty appointment.

THE INSTITUTION: OHSU includes the first medical school west of the Mississippi and Oregon's first dental and nursing schools. Located in Portland, it serves 2600 students. Its annual research budget is \$160 million. In July 2001, OHSU expanded, by merger, with The Oregon Graduate Institute of Science and Technology. As OHSU's new School of Science and Engineering, OGI serves over 300 students. Its annual research budget is nearly \$20 million. Additional information about both institutions is available at www.ogi.edu and www.ohsu.edu.

APPLICATIONS: The search has begun and will continue until the position is filled, ideally in early fall 2002. Confidential inquiries and requests for a Position Specification may be directed to the consultant assisting the search committee, **E. Kay Dawson**, by email (preferred) at ekdawson@qwest.net, or by telephone at 503.292.4889. Applicants should submit a cover letter responsive to the Position Specification, a curriculum vitae, and the names of five references to the search committee chair, **Dr. Misha Pavel**, OGI School of Science & Engineering, 20000 NW Walker Road, Beaverton, OR 97006-8921. OHSU IS AN EO/AA INSTITUTION



UNIVERSITY of New Hampshire

**RESEARCH FULL PROFESSOR AND DIRECTOR
RESEARCH ASSISTANT OR ASSOCIATE PROFESSOR**

A new Center of Excellence in Coastal Ocean Observation and Analysis (COOA) is being established at the University of New Hampshire with a \$2M NOAA award as part of the Coastal Observation Technology Systems (COTS). COOA will develop and implement new methodologies and approaches for coastal ocean observing, focusing on the end-to-end process required to generate new information and understanding and to improve ocean forecasting, and including data acquisition, model-data assimilation, interpretation, and synthesis. COOA will use the Gulf of Maine as a test bed and will involve UNH ocean scientists and engineers. COOA will be housed in the Ocean Process Analysis Laboratory, one of four centers in the Institute for the Study of Earth, Oceans, and Space (EOS; <http://www.eos.unh.edu>) at UNH. COOA will coordinate with other UNH centers and institutes, including the Center for Coastal and Ocean Mapping/Joint Hydrographic Center (<http://www.ccom-jhc.unh.edu>) and the Cooperative Institute for Coastal and Estuarine Environmental Technology (<http://ciceet.unh.edu>).

COOA DIRECTOR AND RESEARCH FULL PROFESSOR: UNH seeks an established, internationally recognized researcher in any discipline underlying ocean observing and consistent with COOA mission areas and goals. The successful applicant will be expected to bring to UNH an established research program, direct the UNH center of excellence, participate in the administration of program funds, and liaison with other COTS institutions. UNH will guarantee 48 months salary for the Research Professorship; subsequent funding will be contingent on extramural funding.

RESEARCH ASSISTANT OR ASSOCIATE PROFESSOR: UNH seeks a faculty member with research expertise and professional experience in any discipline underlying ocean observing and consistent with COOA mission areas and goals. UNH will guarantee 24 months salary for this position; subsequent funding will be contingent on extramural funding.

Letters of applications for both positions must be received by 7/15/2002 to receive full consideration.

Address for receipt of resumes: **COOA Search Committee, Ocean Process Analysis Laboratory, Institute for the Study of Earth, Oceans, and Space, 142 Morse Hall, University of New Hampshire, Durham, NH 03824-3525.**

UNH is committed to excellence through diversity among its faculty and staff and strongly encourages women and minorities to apply.

**UNIVERSITY OF CALIFORNIA, SAN FRANCISCO
POSTDOCTORAL POSITION IN OCULAR ONCOLOGY**



UCSF Ocular Oncology Laboratory seeks a postdoc to conduct translational research directed at improving diagnosis and treatment of patients with retinoblastoma.

Projects include:

- Analysis of retinoblastoma gene (*RB1*) mutations by novel methods developed in our laboratory.
- *RB1* genotype-phenotype studies in retinoblastoma patients.
- Analysis of structural and functional correlates of clinically observed mutations.
- Studies of experimental therapies *in vitro* in retinoblastoma cell lines and *in vivo* in a transgenic murine model of retinoblastoma.

Position requirements:

- Doctoral level degree (MD and/or PhD) with experience in genetics, cellular biology, or molecular biology.
- Two papers published in the English literature.
- Excellent writing skills, with the ability to proofread and edit research papers.

Candidate must be available for a personal interview in San Francisco. When responding, please indicate the following source code: **S1**. Send curriculum vitae, statement of research interests/experience, and names of three references to:

Joan M. O'Brien, MD

University of California, San Francisco, Department of Ophthalmology,
10 Kirkham Street, K240, San Francisco, CA 94143-0730
FAX: 415-502-3230 Email: kvq@itsa.ucsf.edu

UCSF is an Affirmative Action/Equal Opportunity Employer and committed to a diverse workforce.



**FOOD AND DRUG ADMINISTRATION
ASSOCIATE DIRECTOR FOR PHARMACOLOGY
AND TOXICOLOGY**

The Food and Drug Administration (FDA) is seeking candidates to fill the Senior Biomedical Research Service (SBRS) position of Associate Director for Pharmacology/Toxicology in the Office of New Drugs (OND), Center for Drug Evaluation and Research (CDER). The incumbent is the Center's expert advisor on pharmacological and toxicological problems and issues. He/she will have the lead technical authority over pharmacology and toxicology matters and in coordinating relevant activities involved in new drug programs. Candidates should have, as a minimum, a doctoral level degree in pharmacology, toxicology, or in a closely related biomedical field and extensive knowledge of non-clinical/product research and development and guidelines governing the approval of pharmaceutical products for human use. This position, with an annual salary range of \$92,060-\$166,700, is located in Rockville, Maryland. For additional information contact **Jim Keady** on (301)827-4184 or the Office of Personnel website at www.usajobs.opm.gov. Submit application materials by July 27, 2002 to:

Jim Keady

Office of Human Resources and Management Services
Food and Drug Administration
Room 7B-32, HFA-408, Parklawn Building
5600 Fishers Lane
Rockville, Maryland 20857

*The FDA is an Equal Opportunity Employer
and has a smoke-free environment.*

SYSTEMS INTEGRATION MANAGER

Celera Diagnostics, a joint venture between Applied Biosystems and Celera Genomics, seeks to improve human health through the discovery, development and commercialization of novel diagnostic products. Combining technology expertise with discovery power means we're able to lead the way in creating tests that will predict, monitor and select therapy for cardiovascular disease, central nervous system disorders, cancer and more. Currently, we have a growth opportunity for a Systems Integration Manager to join our team in Alameda, located in the San Francisco Bay area in California.

This position designs, writes and implements instrument system verification and validation test plans/procedures. Involves managing a small group of engineers/scientists, conducting design reviews and writing reports. The position also provides input on product requirements, project plans and risk analyses, and works closely with all related groups, vendors and corporate partners.

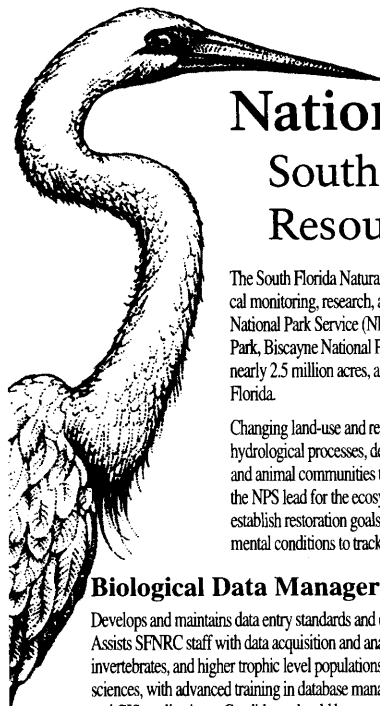
Requires a Bachelor's degree (or higher) in an engineering discipline; candidates with a degree in Physics, Chemistry or the life sciences (with strong mechanical skills) will also be considered. The successful candidate will have 6-8 years of industry experience, at least 3 of which must be in an in vitro diagnostics company. Must be experienced in designing system verification and validation project plans/procedures for diagnostic instrument systems. In-depth knowledge of issues and interactions involving hardware, reagents, software, consumables and operator interactions is essential. Knowledge of design controls under FDA Quality System Regulations for medical devices is a must. Experience in the application of statistical techniques to design experiments and data evaluation highly desirable. Occasional travel may be required.

Celera Diagnostics offers an excellent total compensation package including competitive pay and excellent benefits. To apply for this position or to find out more information, please refer to Req. #01-19135 on our website at www.celeradiagnostics.com. EOE



CELERA DIAGNOSTICS

A Joint Venture with Applied Biosystems



National Park Service South Florida Natural Resources Center

The South Florida Natural Resources Center was established in 1978 to conduct ecological and hydrological monitoring, research, and natural resources management studies to guide the preservation of the four National Park Service (NPS) units in South Florida. Collectively these NPS units (Everglades National Park, Biscayne National Park, Dry Tortugas National Park, and the Big Cypress National Preserve) include nearly 2.5 million acres, and were established to preserve the natural and cultural resources of South Florida.

Changing land-use and regional water management practices over the last century have altered the natural hydrological processes, degraded water quality, and decreased the abundance and diversity of native plant and animal communities throughout South Florida. The South Florida Natural Resources Center serves as the NPS lead for the ecosystem restoration initiatives in South Florida, conducting scientific studies to establish restoration goals, evaluate the impacts of proposed management actions, and monitor environmental conditions to track long-term restoration success.

Biological Data Manager

Develops and maintains data entry standards and quality assurance protocols for biological research and monitoring programs. Assists SFNRC staff with data acquisition and analysis methods used in resource evaluations related to plant ecology, fish and invertebrates, and higher trophic level populations. Graduate level education is preferred or equivalent experience in biological sciences, with advanced training in database management in both Windows and Unix environments, and knowledge of statistical and GIS applications. Candidates should have experience in biological database management. (Homestead, FL)

Inter-disciplinary Project Managers

Responsible for developing and maintaining project management plans for the NPS/DOI role in south Florida ecosystem projects. These plans are used to define project goals and objectives, and track project schedules, staffing and resource requirements, and project deliverables. Coordinates project activities with DOI and outside agencies to assure that ecosystem restoration and management objectives are met. Graduate level education is preferred or equivalent experience in biological sciences, hydrology, or a related engineering field, and knowledge of project management methods, including the use Project Mgmt. software (MS Project and Primavera). (West Palm Beach and Homestead, FL)

Research Hydrologist

Conducts independent research in the developing field of eco-hydrology, hydrologic modeling, or stochastic hydrology. Participates in interdisciplinary assessments of ecosystem restoration projects. Graduate level education or equivalent experience in environmental sciences, hydrology, civil/environmental engineering, or a related field is desirable. Candidates should possess in-depth knowledge of wetland physical processes, computational methods, or advanced hydrologic data analysis techniques. (Homestead, FL)

Wildlife Ecologist

Leads a scientific program of wildlife population biology and ecology, focusing on wading birds, mammals and species of special concern, particularly as they are affected by water management actions and ecosystem restoration strategies. The position requires at least several years experience in the application of modern, quantitative approaches to population dynamics, and studies of productivity and reproductive success. A record of publication in the scientific literature is expected, and experience in wetland animal populations is preferred. Experience or demonstrated ability to work with a scientific team, including as supervisor of other scientists is desirable. (Homestead, FL)

Research Coordinator

Coordinate and manage a program of ecological research, modeling and monitoring designed to provide information essential to Everglades restoration. Lead efforts to synthesize data from diverse projects to address complex or interdisciplinary questions. Establish research priorities and procedures for assuring scientific excellence. Work with ecologists, hydrologists and other scientists to evaluate and define progress towards restoration of freshwater, estuarine and upland habitats. The position requires experience in managing research programs and in scientific data synthesis. The applicant should be broadly trained in ecology and environmental sciences, able to work in an interdisciplinary and interagency milieu. (Homestead, FL)

Branch Chief- Biological Resources

Develops and implements a multi-disciplinary program in biological resources in support of the wildlife, marine, aquatic, and vegetation programs, as well as endangered species and exotic control programs. Graduate level education is preferred or equivalent experiences in the quantitative methods used in biological/ecological monitoring and research projects, biological data processing and database management, statistical analyses and GIS applications used in the biological sciences, and simulation modeling techniques. Candidates should have experience in wildlife and vegetation management, aquatic ecology, wetland and terrestrial ecology, and marine biology. (Homestead, FL.)



Please refer to <http://www.usajobs.opm.gov> for specific job announcement
Direct inquiries for job application to Human Resources Office: Phone# (305)-242-7720
Direct inquiries for specific job information to: SFNRC, Everglades National Park, 40001 State Road 9336
Homestead, Florida 33030, Phone # (305)-242-7800, Fax # (305)-242-7836
Visit our website at <http://www.sfnrc.ever.nps.gov>

National Park Service is an Equal Opportunity Employer. Applicant must be a United States Citizen in order to be considered. Vacancies are available in West Palm Beach and Homestead, Florida

Bacterial Pathogenesis Faculty Position

Departments of Microbiology & Immunology, Pathology
and
The Center for Biodefense
The University of Texas Medical Branch

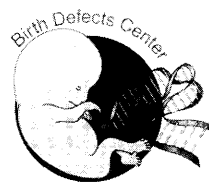
The Departments of Microbiology and Immunology and Pathology invite applications for a tenure-track position at the Assistant Professor level. Applicants should have a M.D. and/or Ph.D. and will be expected to develop, or have previously established, an independent research program relating to *Bacillus anthracis*, *Francisella tularensis*, or *Yersinia pestis* with an emphasis on molecular pathogenesis. Individuals with research programs focused on Class B BWA may also be considered. Current research programs include molecular pathogenesis of bacterial and viral infections, host defenses, vaccine development, investigation of intracellular pathogens, with NIH training programs in tropical and emerging infectious diseases, and mucosal immunology. We offer an ideal interactive environment with complementary programs in emerging and tropical diseases through the Center for Tropical Diseases, biohazardous pathogens with the pending construction of a BSL 4 laboratory, and the newly established Vaccine Development Center and Center for Biodefense. A competitive start-up package and modern laboratory space are available. For full consideration, please send a curriculum vitae, a summary of past accomplishments, future research plans, and the names, and contact information of four references to:

Bacterial Pathogenesis Search Committee
The University of Texas Medical Branch
301 University Boulevard
Galveston, TX 77555-1019

For additional information about the departments, visit:

<http://microbiology.utmb.edu>
<http://www.utmb.edu/pathology/>

UTMB hires only persons authorized to work in the United States
UTMB is an AA/EO Employer. AFF/D/V



UNIVERSITY OF LOUISVILLE BIRTH DEFECTS CENTER

<http://www.louisville.edu/dental/bdc/bdc.htm>

Tenure-Track Faculty Positions Developmental Biology

The University of Louisville Birth Defects Center invites applications for tenure-track faculty appointments at the level of Assistant or Associate Professor. Candidates should have a research program in the area of developmental biology, utilizing contemporary molecular and/or genetic approaches that would complement the Center's existing strengths in signal transduction, cardiovascular and craniofacial development, regulation of gene expression and molecular genetics of developmental anomalies. Candidates must have a Ph.D. degree in a biomedically related field or the equivalent, at least two years of postdoctoral training and a sound research program reflected by a strong publication record. Successful candidates will be expected to establish and maintain an independent and innovative research program that attracts extramural funding. Opportunities exist to collaborate with faculty in numerous Centers and Institutes including the Center for Genetics and Molecular Medicine, among others.

Applicants should send a curriculum vitae, a description of research activities and plans, and the names of three references to: **Dr. Robert Greene, Director, Birth Defects Center, Department of Molecular, Cellular and Craniofacial Biology, University of Louisville Health Sciences Center, 501 S. Preston St., Suite 301, Louisville, KY, 40292. e-mail: Greene@Louisville.edu**

The University of Louisville is an EEO/AA employer. Women and minorities are encouraged to apply.

POSITIONS OPEN

FACULTY POSITION Computational/Theoretical Chemistry

Montana State University Department of Chemistry and Biochemistry invites applicants for a tenure-track position in computational/theoretical chemistry starting January 2003. The successful candidate will show outstanding promise for establishing an innovative and highly visible research program with synergistic ties to one or more research groups on campus working in rapidly advancing areas including structure/dynamics of macromolecules, electronic structure of bioinorganic or nanomaterials, and modeling of complex biological or chemical systems. A Doctoral degree in chemistry or closely related discipline and promise of excellence in teaching are required. Postdoctoral experience is desirable. Appointment at the **ASSISTANT PROFESSOR** level is anticipated but appointment at a higher level may be considered. See website: <http://www.montana.edu/msuinfo/jobs/faculty> for a complete position description. Review of applications will begin on August 1, 2002. Submit curriculum vitae, a statement of research and teaching interests, and have three letters of reference sent directly to: **Professor Patrik Callis, Search Committee, Department of Chemistry and Biochemistry, Montana State University, Bozeman, MT 59717. Americans With Disabilities Act/Equal Opportunity/Affirmative Action/Veteran's Preference.**

FACULTY POSITION Caribbean Medical School

Saint James School of Medicine is hiring faculty with teaching experience in any of the basic medical science subjects for its unit in the Caribbean. Immediate need is in pathology and microbiology. Teaching experience in U.S. system is desirable. Faculty may also join M. T. program. Apply online with attached résumé to e-mail: stjamesmed@usa.net or mail to: C/O HRDS Inc., 2337 West Devon Avenue, Number 147, Chicago, IL 60659.

POSITIONS OPEN

FACULTY POSITION MOLECULAR NEUROGENETICS University of Alabama at Birmingham

The Department of Neurobiology at the University of Alabama at Birmingham School of Medicine is undergoing a major expansion and has an opening for a tenure-track **ASSISTANT PROFESSOR** in neurogenetics. We seek individuals with outstanding research productivity or promise in molecular genetics of nervous system function or development in health or disease. Investigators who utilize functional genomics or proteomics and model genetic systems to study nervous system development are especially encouraged to apply. The successful candidate will use tools of modern molecular genetics, have completed productive postdoctoral training, and be capable of establishing an extramurally funded laboratory. The Department of Neurobiology currently has 13 primary faculty with over \$8 million in annual extramural research funding and participates in training graduate students through interdisciplinary neuroscience, cellular and molecular biology, and M.D./Ph.D. programs. The Department also houses NIH program project and center grants on nervous system development and a wide array of core facilities for imaging, electrophysiology, molecular biology, and genetics. Opportunities also exist for interaction with UAB's Civitan International Research Center for the study of mental retardation and developmental disorders, with the new Hefflin Center for Human Genetics, and with the Division of Genetic and Translational Medicine. Competitive start-up funds and salary are available. Review of applications will begin August 1, 2002. Please send curriculum vitae, statement of research plan, and have three letters of reference sent to: **The Faculty Recruitment Office, c/o Molecular Neurogenetics Position, Department of Neurobiology, University of Alabama at Birmingham, 1719 Sixth Avenue South, CIRC 137, Birmingham, AL 35294-0021. UAB is an Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

VISITING ASSISTANT PROFESSOR of Microbiology in the Department of Biology at the University of Puget Sound. Full-time, one-year sabbatical leave replacement; begins fall term 2002. Teach junior-/senior-level course in microbiology in the fall and an introductory biology course in the spring. All courses have both lecture and laboratory components. The normal teaching requirement is one lecture section and three or four laboratory sections or two lecture sections and two laboratory sections each semester. Requires Ph.D. (A.B.D. considered) in the biological sciences with emphasis in microbiology and commitment to undergraduate teaching and liberal arts education. Interested individuals are encouraged to submit application materials postmarked no later than June 30, 2002, to ensure consideration. To apply, submit letter of interest, teaching and research statements, curriculum vitae, and three letters of reference to: **Microbiology Search, University of Puget Sound, P.O. Box 7297, Tacoma, WA 98406.**

HEMATOLOGIST

Physician-Scientist: faculty positions. The Division of Hematology is seeking a Physician/Scientist for a full-time academic position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Primary responsibilities will be in research (75%) and patient care/teaching. Preference will be given to genetics, vascular biology, hemostasis/thrombosis, and hematopoiesis. Must be Board certified in internal medicine and Board eligible/certified in hematology and/or oncology. Considerable start-up funds and laboratory space are available to support this expanded research effort. Please send letter of interest and curriculum vitae to: **Dr. Wadie F. Bahou, Chief of Hematology, HSC, T15/040, Stony Brook University, Stony Brook, NY 11972-8151. Website: <http://www.stonybrook.edu.cjo>. Affirmative Action/Equal Opportunity Employer.**

UniS



University of Surrey
Department of Physics

**Reader/Professor in Theory of
Semiconductor Physics and
Optoelectronic Devices (Ref: 3055)**

Applications are invited for an academic position in the Department of Physics, related to the theory of semiconductors and optoelectronic devices. The appointment will be made at the Reader or Professor level depending on the qualifications and experience of the applicant.

Applicants must have an excellent track record in theoretical semiconductor physics. This should include electronic or optical processes relevant to semiconductor materials or optoelectronic devices such as semiconductor lasers. Expertise related to ultrafast or terahertz dynamics, intersubband processes, or high-speed optoelectronic devices would be an advantage.

The research-led department was rated 5A in the 2001 National Research Assessment Exercise (RAE). The successful applicant will join the Optoelectronic Devices and Materials (ODM) research group. ODM will shortly be moving into a new £10m Advanced Technology Institute at Surrey. The group, which is led by Prof A R Adams, FRS, presently consists of eight academic staff. It is involved in several major projects funded by both the national research council (EPSRC) and the EU, with a wide range of industrial and academic collaborators.

Current research activities within ODM extend from the fundamental to the applied. Band structures and transition rates are studied experimentally and theoretically in nanostructures such as quantum wells and dots and semiconductor materials including nitrides and antimonides. Device applications studied include vertical-cavity surface-emitting lasers, quantum-cascade lasers and other semiconductor sources and detectors for the UV to the far infra-red.

The person appointed will develop and lead their own research programme in areas of relevance to the group and interact closely with other group members in existing research areas to develop new research activities. The appointee will provide theoretical input to the experimental ultrafast programme, which utilises the new femtosecond laser facility at Surrey and the Free Electron Laser at Utrecht. The appointee will also be expected to contribute to teaching and other activities within the department.

The salary for a Readership will be in the range £34,158 - £41,732 per annum, while Professorial salaries are determined by negotiation. For further information on research activities in the group, please send an e-mail to odmvacancy@ph.surrey.ac.uk

For an application pack please contact Mrs L F Allen, Personnel Department, University of Surrey, Guildford, Surrey GU2 7XH. Telephone 01483 689279. E-mail: L.Allen@surrey.ac.uk or download application documents from www.surrey.ac.uk 'Employment Opportunities'. Please quote the reference number, supply your postal address and where you saw the advertisement.

Closing date for applications is 30 June 2002.

*Visit the University Web Site at <http://www.surrey.ac.uk/>
The University is committed to an Equal Opportunities Policy*



Staff Clinician Position in Endocrinology, NIH

The National Center for Complementary and Alternative Medicine (NCCAM) seeks outstanding candidates for a staff clinician position in Endocrinology and Metabolism in its Division of Intramural Research on the National Institutes of Health campus in Bethesda, Maryland. Applicants must possess an M.D. or D.O. degree, be licensed to practice medicine within the United States, have substantial clinical and research training in the area of endocrinology, and be American Board of Internal Medicine (ABIM) eligible or certified in endocrinology and metabolism.

The successful candidate will be expected to contribute importantly to a patient-oriented research program designed to assess the potential efficacy, safety, and mechanisms of action of selected, complementary and alternative (CAM) modalities. A specific research interest and experience in the areas of neuroendocrinology, aging and stress, and prior experience and publications in phase I, II and/or III clinical trials, are highly desirable. The extensive clinical research facilities of the NIH Clinical Center will be made available to the successful applicant. Salary and benefits will be commensurate with experience. Applications from women and minorities are encouraged.

Candidates are invited to submit a curriculum vitae, and the names and addresses of three references, to: **Ms. Mary Clements, Human Resources Specialist, NCCAM Office of Human Resources, 31 Center Drive-MS-C 2182, Bethesda, MD 20892-2182.**

APPLICATIONS MUST BE POSTMARKED BY AUGUST 15, 2002

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

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

National Institute of Mental Health

The National Institutes of Health, National Institute of Mental Health, is seeking a talented scientist to advance and direct the extramural grant support of basic research in emotion, motivation, and mood. The position of **Chief, Emotional Processes Program (GS-13/14, \$66,229 - \$102,965)** (salary includes special pay for Medical Officers), is located in the Behavioral Science Research Branch, Division of Neuroscience and Basic Behavioral Science, NIMH. The position offers broad exposure to current issues related to the study of emotion and scientific engagement with the research community. Qualifications include a doctorate in a relevant behavioral science discipline as well as appropriate research experience. In addition to knowledge of emotional processes from behavioral and psychosocial perspectives, familiarity with psychobiological and neural approaches is an asset. The full range of Federal fringe benefits/vacation and sick leave is included. Interested candidates should contact: Personnel Management Branch, NIMH, 301-443-9094. A copy of the full text vacancy announcement is available via the World Wide Web: <http://www.nimh.nih.gov/orm/pmb/nimhjobs.cfm>. Please refer to announcement number **NIMH-02-0103**. Applications must be post-marked by the closing date of August 15, 2002 and received within five business days of the closing date. Equal Opportunity Employer. U.S. Citizenship is required.



POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR

Biophysicist or Bioengineer: Dorothy M. Davis Heart and Lung Research Institute, The Ohio State University College of Medicine and Public Health. Tenure-track faculty position including Directorship of a multiuser confocal and multiphoton imaging facility. Applicants should have a strong, independent research program at the cutting edge of imaging and light spectroscopic techniques, particularly as they apply to living organisms and cells. A strong engineering and biophysical background in optics, spectroscopy, fluorescence, and image analysis is required with demonstrated capability for creative development of instrumentation, innovative techniques, and successful grantsmanship. The position is designed to provide a leadership role for Investigators in heart, vascular, lung, and immune cell biology who are applying novel imaging methodologies ranging from dynamic protein interactions in living cells, signal transduction pathways and real time imaging of microcirculatory networks, and inflammatory cell/vascular wall interactions. Start-up funds are available. Candidates are expected to participate in teaching and graduate programs in biophysics, biomedical engineering and integrated medical sciences. Send curriculum vitae, detailed statement of research interests including future directions, and three letters of reference to: **Dr. Jay L. Zweier, Director, Dorothy M. Davis Heart and Lung Research Institute, The Ohio State University, 110 DHLRI, 473 West 12th, Columbus, OH 43210. Telephone: 614-247-7766; FAX: 614-247-7799; website: <http://heartlung.osu.edu/hlri/index.jsp>.**

The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and individuals with disabilities are encouraged to apply.

ASSISTANT PROFESSOR

Immunopathogenesis

Department of Microbiology and Immunology
Medical College of Ohio

Applications are invited for a 12-month tenure-track faculty position. The successful candidate is expected to develop an independent, extramurally funded research program in an area related to immune response to microbial infection. In addition to teaching medical and graduate students, the successful candidate will be expected to participate in existing bacterial and fungal pathogenesis programs within the Department.

The Department is in a growth phase with focus on the development of immunology. MCO is a state school with a modern campus. To learn more about the Department and MCO, visit our website: <http://www.mco.edu>. Applicants should submit a statement of research goals with representative reprints, curriculum vitae, and three letters of recommendation to: **Garry T. Cole, Ph.D., Chair, Department of Microbiology and Immunology, Medical College of Ohio, 3055 Arlington Avenue, Toledo, OH 43614-5806.** Applications should be received by September 1, 2002. *Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR I.D. NUMBER 12374

Department of Psychiatry, University of Illinois at Chicago, seeks nontenure-track Assistant Professor position. The applicants should have M.D. and Ph.D. degrees. Expertise in preparing primary neuronal cultures, immunohistochemistry, and molecular techniques. Should also have a working knowledge of quantitative RT-PCR with internal standards, chromatin structure, and pharmacology of histone deacetylases. The project involves examining alterations in gene expression associated with changes in methylation status of selected promoters. The position will be funded by federal grants. Send cover letter and curriculum vitae by June 25, 2002. **Dennis Grayson, Ph.D., c/o Ena Casas, UIC Department of Psychiatry, 1601 West Taylor, M/C912, Chicago, IL 60612. FAX: 312-413-1228.** *UIC is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN



ASSISTANT DIRECTOR Proteomics/Mass Spectrometry University of Virginia

The University of Virginia Health System Biomolecular Research Facility has an opening for the Assistant Director of Proteomics/Mass Spectrometry. The candidate must have a Ph.D. degree in a relevant discipline and proven experience in the mass spectrometric identification of proteins using MALDI-TOF and ion trap technologies as well as a broad knowledge of the associated proteomic technologies for sample development. The position will be filled at either the **SENIOR RESEARCH ASSOCIATE** or **ASSOCIATE PROFESSOR OF RESEARCH** level depending on the qualifications of the applicant. Position open until filled.

Qualified individuals should mail, FAX, or e-mail their curriculum vitae and the names, addresses, and telephone numbers of three references to: **Dr. Jay W. Fox, Department of Microbiology, University of Virginia Health Systems, P.O. Box 800734, Charlottesville, VA 22908-0734. Telephone: 434-924-0050; FAX: 434-982-2514; e-mail: jwf8x@virginia.edu.**

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

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. 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. Marquetta 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.*

Physical chemistry: The University of Michigan, Ann Arbor, seeks outstanding candidates for two anticipated **FACULTY POSITIONS** in physical chemistry, one in experimental physical chemistry and one in theoretical physical chemistry. Although the intention is to make appointments at the **FULL PROFESSOR** level, superbly qualified candidates at a more junior level will be considered. We especially encourage applicants with interests that complement the University of Michigan's strengths in biophysical chemistry, materials chemistry, and ultrafast and single-molecule spectroscopy. Candidates are expected to have internationally recognized programs of scholarly research and to demonstrate excellence in teaching at the undergraduate and graduate level. Candidates should send complete curriculum vitae including a list of publications and a summary of funding history together with a description of their research to: **Professor William R. Roush, Chairman, Department of Chemistry, University of Michigan, Ann Arbor, MI 48109-1055.** *The University is responsive to the needs of dual-career couples and is a nondiscriminatory, Affirmative Action Employer.*

POSITIONS OPEN

POSITIONS FOR NEUROSCIENTISTS Neuropsychiatry Research Unit Department of Psychiatry University of Saskatchewan

Two **ASSISTANT PROFESSOR** (permanent) positions in the areas of neuroanatomy, molecular genetics, molecular neuropsychopharmacology, and biological psychiatry are available. The successful candidate(s) should possess the Ph.D. or M.D. with at least three years of research experience. The salary and benefits will be commensurate with qualifications. Some start-up funds will be provided. The positions are open until filled. Applicants should submit curriculum vitae, three references, and a statement of current research interests to:

**Dr. Xin-Min Li, Director
Neuropsychiatric Research Unit
Department of Psychiatry
University of Saskatchewan
Saskatoon, SK S7N 5E4 Canada
FAX: 306-966-8830
E-mail: xin-min.li@usask.ca**

POSTDOCTORAL FELLOW and graduate student positions are also available. *The University is committed to Employment Equity. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.*

FACULTY POSITIONS

Cell and Molecular Physiology

The University of North Carolina at Chapel Hill

The Department of Cell and Molecular Physiology in the School of Medicine invites applications for tenure- or tenure-track faculty positions at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR**. We seek candidates using genetic approaches to integrative or disease-related physiology. However, applications from outstanding candidates in any area of physiology will be considered. Attractive start-up packages and new laboratory space are offered. Faculty members are expected to develop a strong, externally funded research program and contribute to teaching graduate and medical students. Applicants must hold a Doctoral degree. Review of applications will begin August 1, 2002. Please submit four letters of reference and e-mail curriculum vitae and statement of your proposed research program and career goals to:

**James M. Anderson, Ph.D., M.D.
Chair, Department of Cell and
Molecular Physiology
266 Medical Sciences Research Building
CB Number 7545, School of Medicine
University of North Carolina at Chapel Hill
Chapel Hill, NC 27599-7545
E-mail: facsearch@medexch.med.unc.edu**

UNC is an Equal Opportunity/Americans With Disabilities Act Employer.

FACULTY POSITION

Boise State University invites applications for a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR** position in protein molecular biology/biochemistry. Boise State University has a strong history of providing quality education and research opportunities for its undergraduate and graduate students. The successful candidate should have an interest in research and teaching at the Bachelor's and Master's degree levels and be able to develop and maintain an externally funded research program in protein structure/function and molecular interaction, preferably focusing on extracellular matrix, cancer, or neurobiology. State-of-the-art instrumentation available will include a tandem MS for protein sequencing; a spectropolarimeter for secondary structure analysis; and SEC-MALS, FFF-MALS, and molecular modeling work stations. Send curriculum vitae including pending and awarded grants; statements of teaching and research interests; copies of publications; and names, addresses, and e-mail addresses of three references to: **Dr. Martin Schimpf, Boise State University, Boise, ID 83725-1500.**



**Tenure Track Investigator
Neuroimaging of Brain
Function in Primates
National Institutes of Health
Bethesda, MD, USA**

The National Institute of Neurological Disorders and Stroke (NINDS), National Eye Institute (NEI), and the National Institute of Mental Health (NIMH), Intramural Research Programs are recruiting for a tenure track position with a joint appointment. The ideal candidate will be a scientist with interests in brain research using non-human primates that makes, or plans to make extensive use of MRI techniques. The candidate must have demonstrated abilities to develop an outstanding, independent research program that is focused on brain function in primates. The successful candidate must have a Ph.D. in neuroscience, MRI physics or a related discipline. NIH has an outstanding tradition in developing neuroimaging techniques. A 4.7T, vertical 60 cm bore MRI is available for use with non-human primates. The strong scientific environment and outstanding equipment resources at NIH makes this a unique opportunity for an outstanding scientist. Interested candidates should send curriculum vitae; statement of research interests, accomplishments and future goals; and three letters of recommendation to Chair, Search Committee for Neuroimaging of Brain Function in Primates, National Institute of Mental Health, Bldg. 10, Rm. 4N-222, 9000 Rockville Pike, Bethesda, MD 20892, or by e-mail to steyerm@intr.nimh.nih.gov, by August 15, 2002.

NIH is an equal opportunity employer



Bridge the Gap Between Discovery and Clinical Testing

Access the National Cancer Institute's (NCI) vast resources free of charge to help move therapeutic agents for cancer to the clinic. The National Cancer Institute invites the submission of proposals to:

Rapid Access to Intervention Development RAID

RAID is not a grant program. Successful applicants instead will receive products or information generated by NCI contractors to aid the applicant's development of novel therapeutics towards clinical trial. The goal of RAID is the rapid movement of novel molecules and concepts from the laboratory to the clinic for proof-of-principle clinical trials. RAID will assist investigators by providing any (or all) of the preclinical development steps that may be obstacles to clinical translation. These may include, for example, production, bulk supply, GMP manufacturing, formulation and toxicology.

- The next deadline for receipt of applications is August 1, 2002
- Further information about this program can be found at: <http://dtp.nci.nih.gov>
- Inquiries can be made to the RAID Program Coordinator by telephone at 301-496-8720 or by e-mail a RAID@dtpax2.ncicrf.gov



**RAID
Developmental Therapeutics Program**
National Cancer Institute
6130 Executive Blvd., RM 8024
Rockville, MD 20852
Tel: 301-496-8720; Fax: 301-402-0831
raid@dtpax2.ncicrf.gov



Myriad Pharmaceuticals, Inc.



Myriad Pharmaceuticals, Inc. has been established as a wholly owned subsidiary of Myriad Genetics, Inc. to create novel therapeutic products for the treatment of human diseases. We are seeking highly motivated individuals to lead our Protein Expression, in vitro Pharmacology and Mammalian Cell Biology groups.

Pharmacologist - Group Leader

You must have a Ph.D. in a relevant scientific discipline and 6+ years' industrial experience, or a BS/MS and 12+ years' industrial experience; excellent managerial skills; and a strong background in characterizing protein-lig and interactions, and assessing enzyme kinetics. Experience in analyzing small molecules using Biacore technology is preferred.

Protein Expression - Director

You must have a Ph.D. and 8+ years' industrial experience, or a BS/MS and 12+ years' industrial experience; and a strong background in the expression, purification, and characterization of novel protein targets from mammalian, insect and bacterial systems (1 -100 milligram scale).

Mammalian Cell Biologists - Group Leader

You must have a Ph.D. and 6+ years' industrial experience, or a BS/MS and 12+ years' industrial experience. Excellent managerial skills; a broad background in Mammalian Cell Biology, with an emphasis in cell cycle regulation, tumorigenesis and signal transduction; and expertise in the development of novel cell-based analysis are all required.

Mammalian Cell Biologists - Research Associate

You must have a BS/MS in Biological Science or related field and 3+ years' experience, including work with molecular techniques, ELISA and fluorescent/luminescent assays. A mastery of mammalian cell tissue culture/transfection techniques and mammalian cell culture technology (including flow cytometry and fluorescence microscopy) is also required.

Myriad offers an attractive compensation package and a stimulating, interactive research environment. Please e-mail or fax your letter of interest, a complete resume, and the names of three references to: Human Resources Department, Myriad Genetics, Inc., 320 Wakara Way, Salt Lake City, UT 84108; Fax: 801-584-1144; E-mail: hr@myriad.com.

We are an Equal Opportunity Employer. To learn more about Myriad Genetics, visit our corporate Web site at: www.myriad.com.



MYRIAD

www.myriad.com

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR Cancer Biology/Cardiovascular Biology University of Victoria Victoria, British Columbia, Canada

The Departments of Biology and Biochemistry/Microbiology invite applications for two full-time, tenure-track positions in cancer biology and cardiovascular biology that will be affiliated with the Centre for Biomedical Research. Applicants should have an exceptional background in one or more of the following areas: cancer biology; growth and development; stroke, heart, or circulatory diseases. Applicants must demonstrate outstanding scholarship in cell biology, molecular biology, biochemistry, genetics, or molecular physiology. Outstanding scholarship in related areas will be considered. The Centre for Biomedical Research has interests in areas in environmental genetic disease, cancer biology, neurobiology, and circulatory disease. The appointee will be expected to develop a rigorous, independent research program funded by external support. The successful candidates will be supported by the University to compete for career awards (e.g., CIHR, Michael Smith Health Research Foundation, etc.). They also will be expected to participate in the research and teaching activities of the Departments of Biology or Biochemistry and interact with local clinicians. The expected starting date will be January 2003 or as negotiated.

Qualifications include the completion of a Ph.D. and postdoctoral experience along with demonstrated exceptional research and teaching potential. Letters of application clearly outlining the candidate's expertise; teaching experience; and research interests along with curriculum vitae and names and contact information of at least three references should be sent by July 30, 2002, to:

Dr. B.F. Koop, Director
Centre for Biomedical Research
University of Victoria
P.O. Box 3020 STN CSC
Victoria, BC V8W 3N5 Canada
E-mail: ptymchuk@uvic.ca
Website: <http://web.uvic.ca/biology>
Website: <http://web.uvic.ca/biochem>

The University of Victoria is an Employment Equity Employer and encourages applications from women, persons with disabilities, visible minorities, and aboriginal peoples. In accordance with Canadian immigration requirements, all qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority.

FACULTY POSITIONS Cellular and Molecular Immunology Columbia University College of Physicians and Surgeons

The Department of Microbiology at Columbia University College of Physicians and Surgeons invites applications from outstanding individuals in the fields of cellular or molecular immunology. Several faculty positions are available and appointments can be either tenure track or tenured and at any rank depending on the qualifications and experience of the applicant. Please send a letter of interest, statement of research interests, current curriculum vitae, and names of three references to: **Dr. Kathryn Calame, Chair, Immunology Search Committee, Department of Microbiology, Columbia University, 701 West 168th Street, New York, NY 10032.** Applications are requested by August 1, 2002. *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS

Karolinska Institutet, Stockholm, Sweden

Two stipends (180,000 SEK) are available for Molecular Neuroscientists interested in one of the following projects: (1) characterization of the novel NMDA receptor subunit NR3B and its role in neurological disease and (2) analysis of gene expression patterns following traumatic brain injury using microarray techniques. E-mail applications before August 15, 2002, to: **Gabriel von Euler; e-mail: gabriel.von.euler@ks.se or Ann-Christin Sandberg Nordqvist; e-mail: anki.nordqvist@cns.ki.se.**

POSITIONS OPEN



ENDOWED MYLAN CHAIR IN PHARMACOLOGY Mary Babb Randolph Cancer Center West Virginia University

The Robert C. Byrd Health Sciences Center at West Virginia University and the Mary Babb Randolph Cancer Center seek a **PHARMACOLOGIST** to fill the Mylan Chair in Pharmacology. The individual chosen will be appointed as a member of the Mary Babb Randolph Cancer Center and hold a faculty appointment in an appropriate basic science and/or clinical science department. The ideal candidate would lead the new agent development program in the Cancer Center. Current areas of major focus in the Cancer Center include women's health, lung cancer, bone marrow transplantation, and cancer prevention. The Endowed Chair provides a major source of support.

The Mary Babb Randolph Cancer Center and the West Virginia University School of Medicine are in a dynamic growth phase and provide an ideal research environment for both established and beginning Investigators. The School of Medicine is part of the Robert C. Byrd Health Sciences Center that has modern core facilities including flow cytometry, mass spectrometry/proteomics, genomics, a transgenic mouse facility, a DNA/instrumentation core facility, a confocal and fluorescence microscopy core facility, and an electron microscopy core facility. The Mary Babb Randolph Cancer Center is a matrix cancer center with active collaborations involving all schools of the Health Sciences Center.

The city of Morgantown is located in northern West Virginia, approximately 70 miles south of Pittsburgh, Pennsylvania, and three hours west of Baltimore, Maryland, and Washington, D.C. Morgantown's location in the foothills of the Appalachian Mountains makes it both picturesque and provides numerous outdoor activities. It is listed among the best small towns in the United States with affordable housing, excellent schools, a very low crime rate, and easy access to a variety of four season activities including ski resorts, cross country skiing, white water rafting, hiking and biking trails, and many activities geared towards children.

Candidates must have an appropriate Doctoral degree. Applications will be screened starting August 15, 2002, and will continue until the position is filled. Applicants should send curriculum vitae, names of three references, and a statement of research interests to:

Diana S. Beattie, Ph.D.
Chair, Search Committee
P.O. Box 9142
West Virginia University
Morgantown, WV 26506-9142

West Virginia University is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available to study the role of PTK/PTPase signaling mechanisms involved in fertilization of zebrafish eggs. This project involves construction and microinjection of dominant-negative fusion proteins designed to identify enzymes relevant to egg activation. Funded by an NIH training grant, this position is open to U.S. citizens or permanent residents with an M.D., Ph.D., or D.V.M. Contact: **Dr. William H. Kinsey, Department of Anatomy and Cell Biology, University of Kansas Medical Center; e-mail: wkelsey@kumc.edu.**

POSITIONS OPEN

FACULTY POSITION (Tenured/Tenure Track) Hemostasis/Thrombosis Research Program University of Minnesota

The Division of Hematology, Oncology, and Transplantation is seeking a Laboratory Investigator in hemostasis and thrombosis at the **ASSISTANT, ASSOCIATE, or PROFESSOR** level depending upon qualifications. The successful candidate should be a highly motivated, laboratory-based Researcher with the ability to develop a competitive, externally funded research program. Excellent interpersonal skills and a willingness to develop collaborative research projects with other Investigators is considered an essential asset. The ideal candidate will possess an M.D. and/or Ph.D. in a basic discipline related to hemostasis and thrombosis such as protein chemistry or molecular or cellular biology. At a minimum, applicants should have completed postdoctoral training in a laboratory with a focus in one of these areas. The successful candidate will join a vibrant group of Investigators based in clinical and basic science departments within the University of Minnesota Medical School with established NIH-funded research in hemophilia, hemostatic mechanisms in sickle cell disease, and other thrombotic disorders. Potential exists for a joint appointment with the Department of Biochemistry.

Applications will be reviewed upon receipt and accepted until position is filled. Interested candidates should send their curriculum vitae and three references to:

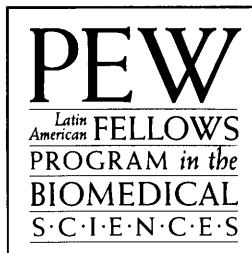
Nigel S. Key, M.D.
Department of Medicine
University of Minnesota Medical School
MMC 480
420 Delaware Street S.E.
Minneapolis, MN 55455

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

The Children's Cancer Research Center (CCRC) of The University of Texas Health Science Center at San Antonio (UTHSCSA) together with the Departments of Pediatrics, Microbiology and Medicine is seeking qualified (Ph.D., M.D./Ph.D. or M.D.) applicants for two tenure-track positions at **ASSISTANT/ASSOCIATE PROFESSOR** levels for its Tumor Virology and Immunology program (TVI). Applicants must have three to five years of postdoctoral experience; high-quality, peer-reviewed publications; and evidence of independent research and competitive funding potential. CCRC seeks individuals who have demonstrated the ability to direct innovative, independent research using molecular and/or cellular approaches. The positions offer significant scientific resources and an attractive start-up support package. CCRC is funded by a \$200 million endowment from the State of Texas tobacco settlement and will occupy a newly constructed, state-of-the-art laboratory building in 2003-2004. Successful applicants will join a multidisciplinary team of Researchers in CCRC as part of an ongoing programmatic expansion. Review begins September 30, 2002, until positions are filled. Applicants should send curriculum vitae, a description of research plans, and three letters of reference to: **TVI Search Committee, CCRC, Mail Code 7810, 7703 Floyd Curl Drive, San Antonio, TX 78229-3900.** *UTHSCSA is an Equal Employment Opportunity/Affirmative Act Employer.*

SENIOR RESEARCH ASSOCIATE

Research the neurobiology of psychiatric disorders using modern pharmacological and molecular techniques. Assist in designing and executing funded projects and in preparing scientific manuscripts. Maintain laboratory function and assist with future grant applications. Qualifications: M.D. or Ph.D. in related field plus two years of experience. Degree in pharmacology, biochemistry, or molecular biology preferred. Send résumé and cover letter outlining qualifications to: **Dr. Craig Stockmeier, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216.** *Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.*



The Pew Latin American Fellows Program in the Biomedical Sciences provides support for young scientists from Latin America for post-doctoral training in the United States.

Ten Fellows will be selected in 2003. An award of \$50,000 will be provided as a salary stipend for the fellow during the period of training (2 years) and will be administered by the sponsoring U.S. institution. The sponsoring institution is required to supplement the salary stipend with at least \$5,000 a year and to provide full medical benefits for the fellow. Following the two year fellowship, the Program will issue an additional \$35,000 award to the sponsoring institution to purchase equipment and supplies for the fellow to establish a laboratory in his or her home country.

Applicants must have held a Ph.D. and/or M.D. degree, or equivalent, for no more than five years as of July 1, 2003. Applicants who received their degree from schools in the U.S., Canada or Europe will not be accepted. Applicants may not have had previous post-doctoral training outside of Latin America, nor may they have begun a post-doctoral position in the U.S. prior to October 1, 2002. Applicants are not required to have a commitment of a position and laboratory space after the fellowship. However, applicants must submit a written statement of intent to return to Latin America. Fellows must accept a position and have confirmed laboratory space in Latin America by the end of the fellowship period in order to obtain the \$35,000 portion of the award.

Fellows will be selected on the basis of their promise as outstanding investigators, as well as the scientific merit of their research proposal, their record of training and how well their interests coincide with the laboratory of their sponsor in the United States. If potential applicants need assistance with the identification of an appropriate sponsoring laboratory in the United States, they may contact the Program Office before August 1, 2002. The program will accept applications from Mexico, Central and South America. Applications may be obtained from the Regional Committee contact listed here for each country or from our website at: www.pewlatinfellows.com

The application deadline is October 1, 2002. Winners will be notified in April 2003 and the fellowship should begin no later than August 2003.

APPLICATION DEADLINE IS OCTOBER 1, 2002

ARGENTINA

Ana Belén Elgoyhen, Chair
Instituto de Investigaciones en Ingeniería
Genética y Biología Molecular
Phone: (5411)(4) 783-2871
Fax: (5411)(4) 786-8578
E-mail: elgoyhen@dna.uba.ar

BRASIL

Sergio T. Ferreira, Chair
Universidade Federal do Rio de Janeiro
Departamento de Bioquímica Médica, ICB/CCS
Phone/Fax: (5521) 2562-6789
E-mail: ferreira@bioqmed.ufrj.br

CHILE

Manuel Kukuljan, Chair
Programa de Fisiología y Biofísica
Instituto de Ciencias Biomédicas
Facultad de Medicina
Universidad de Chile
Phone: (56)(2) 678-6707 Fax: (56)(2) 777-6916
E-mail: kukuljan@bitmed.med.uchile.cl

MEXICO

Mario Zurita, Chair
Instituto de Biotecnología, UNAM
Phone: (52)(5) 622-7659 Fax: (52)(7) 317-2388
E-mail: marioz@ibt.unam.mx

All Other Countries

Silvia Montano de Jiménez
The Pew Latin American Fellows Program
3333 California Street, Suite 410
San Francisco, CA 94118
Phone: (415) 476-5116 Fax: (415) 476-4113
E-mail: montano@itsa.ucsf.edu

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL

DEPARTMENT OF MOLECULAR GENETICS AND MICROBIOLOGY

► Bacterial Pathogenesis - Faculty Position

The Department of Molecular Genetics and Microbiology invites applications for a tenured or tenure-track faculty position in the field of bacterial pathogenesis. An outstanding record of achievement in research is expected, as is a commitment to excellence in teaching.

The University of Massachusetts Medical School (<http://www.umassmed.edu/>) is experiencing rapid growth in all academic programs and is in the midst of a five-year expansion that will add more than 100 new research faculty members. Superb resources, a generous start-up package, and recently renovated space will be provided to the successful candidate. A joint clinical appointment in infectious diseases or a related discipline is possible for individuals with clinical training.

Applications should include a Curriculum Vitae, a brief statement of research accomplishments and interests, reprints of selected publications (not to exceed three), and the names, email address and telephone numbers of three individuals whom the applicant has asked to send letters of reference.

Send application to: Chair, Bacterial Pathogenesis Search Committee, Department of Molecular Genetics and Microbiology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01655-0122.



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



POSTDOCTORAL FELLOW Lymphocyte Costimulation Rochester, Minnesota, U.S.A

Postdoctoral positions are available immediately for studying mechanisms of new T cell costimulatory molecules in the regulation of T lymphocyte activation and tolerance (<http://www.mayo.edu/research/chenlab>). Individuals with Ph.D. degree in signal transduction, biochemistry or molecular biology are encouraged to apply. The experience in immunology will be a plus.

Salary will be determined by the successful candidate's experience. There is an attractive benefit package. Mayo Clinic is a not-for-profit organization. Mayo integrates research with clinical practice and education in a multi-campus environment. For further information please visit <http://www.mayo.edu/research/>.

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

Dr. Lieping Chen
Professor
Department of Immunology, Guggenheim 3
200 First Street SW
Rochester, MN 55905
(507)-538-0013; (507)-284-1637
chen.lieping@mayo.edu

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

POSITIONS OPEN

FACULTY POSITION Immunobiology/Immunopathogenesis

The Department of Microbiology at The University of Texas Health Science Center at San Antonio invites applications for a full-time, tenure-track appointment at the **ASSISTANT/ASSOCIATE/FULL PROFESSOR** level in the area of immunobiology/host-pathogen interactions including antigen processing and presentation, innate and adaptive immune effector mechanisms, and microbial manipulation of host cell signaling, T and B cell epitope mapping and vaccine development. Candidates must have a Ph.D., M.D., D.V.M., or equivalent with training in immunology, microbiology, or cell biology with proven accomplishments. Individuals with extensive knowledge in basic immunology and/or cell biology/signaling and who are willing to apply their expertise to study microbial pathogenesis are strongly encouraged to apply. The successful candidate will be expected to develop and maintain an externally funded research program in related areas and to participate in various teaching activities. Applicants should submit their curriculum vitae, description of current and future research plans, and names and contact information of at least three references to: **Immunology Search Committee, Department of Microbiology and Immunology, The University of Texas Health Science Center, Mail Code 7758, 7703 Floyd Curl Drive, San Antonio, TX 78229-3900.** Review of applications will begin as they are received and will continue until the position is filled. *The University of Texas Health Science Center at San Antonio is an Equal Opportunity/Affirmative Action Employer.*

PLANT PATHOLOGIST GS-401-11/12 U.S. Department of Agriculture Agricultural Research Service

The Plant Genetic Resources Unit located in Geneva, New York, is seeking to fill a permanent, full-time Plant Pathologist position to conduct genome- and/or proteome-based applied research on fungal pathogens of grapes in humid regions of the United States. Collaboration with other USDA and university Scientists across a wide range of scientific disciplines including plant physiology, plant breeding, horticulture, integrated pest management, entomology, and genetics is essential. The salary range for this position is \$45,285 to \$70,555 per annum. To qualify, candidates must have U.S. citizenship; a Bachelor's degree in plant pathology or in a related discipline appropriate to the position; and a combination of education and experience with at least courses equivalent to a major in the plant pathology or a related discipline appropriate to the position; and one year of specialized experience. For more information on the research program, contact: **Dr. Warren F. Lamboy; Telephone: 315-787-2359.** To obtain additional information and application forms, visit our website: <http://www.ars.usda.gov/afm/hrd/vacancy/vac2.html> or call: **Tiffany Fisk; Telephone: 315-787-2307.** Applications in response to this ad must be marked with the Vacancy Announcement number (ARS-X2E-2264) and postmarked by July 1, 2002.

ARS is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

Several positions available immediately from the **RESEARCH ASSISTANT** to the **POSTDOCTORAL** levels in cancer biology at A&G Pharmaceutical Inc. to characterize the receptor for a novel autocrine growth factor involved in human breast tumorigenesis. Projects include cloning of the receptor and studies of growth factor signaling. Individuals trained in biochemistry or molecular biology with experience in protein purification and/or molecular cloning are preferred. Please send curriculum vitae, short summary of accomplishments, and names of three references to: **Dr. Ginette Serrero, A&G Pharmaceutical, Inc., 600 East Lombard Street, Suite 509, Baltimore, MD. FAX: 410-230-0903; e-mail: gserrero@agrxx.net.**

POSITIONS OPEN



COMPLETE HEALTHCARE COMMUNICATIONS, INC.

Complete Healthcare Communications, Inc. is a respected health care communications leader in the pharmaceutical industry. CHC connects science and marketing through effective communication strategies.

EDITORIAL MANAGER

Ideal candidate is responsible for the development, training, and management of editorial leads. Must have more than three years writing and publication planning in a medical communications agency or pharmaceutical company. Must have an advanced degree in a health sciences discipline. Strong writing, editing, and peer review skills; expertise in multiple therapeutic areas; working knowledge of statistics; clinical background and/or ability to apply clinical knowledge to writing preferred. Some managerial experience required.

EDITORIAL LEAD

Responsible for the overall editorial quality of pharmaceutical client accounts and ensuring that objectives and specifications of publication plans are met. Ideal candidate will have an advanced degree in biosciences, medically related field, or the equivalent and more than three years of agency experience. Must have broad-based scientific, medical, and pharmaceutical experience in clinical or marketing writing and strategic development and implementation. Ability to handle client contacts and deadlines. Flexible work schedule offered. Send résumé and salary requirements to:

**203 Wilmington-West Chester Pike
Suite 300
Glenn Mills, PA 19342
FAX: 610-358-3636
E-mail: humanresources@chcinc.com**

The U.S. Department of Agriculture, Agricultural Research Service, is accepting applications for a **RESEARCH AGRICULTURAL ENGINEER** at the U.S. Dairy Forage Research Center in Madison, Wisconsin. Incumbent will conduct research leading to new harvest, storage, and conversion processes of plant materials to advance dairy farm profitability and introduce new value-added products including energy. Research objectives are to improve the technical and economic feasibility of biobased products and feed stocks including fuels. Salary range: \$54,275 to \$83,902 annually or commensurate with experience. A Ph.D. in engineering, a related field, or equivalent experience is required. *Candidates must be U.S. citizens.* For information, contact: **Neal Martin; Telephone: 608-264-5240; e-mail: npmartin@facstaff.wisc.edu.** For Vacancy Announcement and application forms, contact: **Jean Weinbrenner; Telephone: 608-264-5357; e-mail: jweinbr@facstaff.wisc.edu** or visit website: <http://www.ars.usda.gov/opportun.htm>. Applications should be marked: **ARS-X2W-2265** and must be postmarked by August 5, 2002, or by second cut-off date, October 7, 2002, or until position is filled. *USDA is an Equal Opportunity Provider and Employer. Women and minorities are encouraged to apply.*

RESEARCH SCIENTIST: An immediate opportunity exists for a full-time position in the field of spinal cord electrophysiology. The candidate will conduct research for an ongoing project concerning neurotrophins and function of the injured spinal cord. This project seeks to establish new strategies for strengthening synaptic connections in the developing mammalian spinal cord. Required qualifications: knowledge of basic surgical techniques; intracellular recording of neural activity, microscopy, and computer programming a plus. Salary commensurate with experience. Candidates should submit a cover letter and résumé to: **Dr. Victor Arvanian, Department of Neurobiology and Behavior, Stony Brook University, Stony Brook, NY 11784-5230. FAX: 631-632-6661; e-mail: vavanov@notes.cc.sunysb.edu; website: <http://www.stonybrook.edu.cjo>.** *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

RESEARCH SCIENTISTS Biomaterials, Biocrystallization, and Propulsion Materials

Universities Space Research Association (USRA) has the following openings at the Biological and Physical Space Research Laboratory at NASA Marshall Space Flight Center, Huntsville, Alabama.

(1) **SENIOR STAFF SCIENTIST** to conduct original research and establish a program on biomaterials. A Ph.D. and expertise in modern techniques and disciplines such as optics, AFM, biophotonics, crystallization, and biochemistry are required.

(2) **STAFF SCIENTIST** to work on protein crystallization processes and biomacromolecular crystal perfection. A Ph.D. and expertise in protein purification, crystallization, advanced optics, X-ray diffraction, and scanning microscopy are required.

(3) **SENIOR STAFF SCIENTIST** to conduct original research and establish program on materials science aspect of at least one of the following areas are required. Areas are aerocapture (minimum mass, maximum size materials, e.g., solar sails); solar and nuclear electric propulsion; high-specific energy magnets; cermets; hot hydrogen resistant materials or coatings; cryotanks; or tether materials.

Applicants should submit a cover letter, curriculum vitae, statement of research interests, and information for three references to: **USRA, Attention: Human Resources/Reference 1, 2, or 3, 4950 Corporate Drive, Suite 100, Huntsville, AL 35805.** *Each position will remain open until filled. USRA is an Equal Opportunity/Affirmative Action Employer with an excellent fringe benefits program.*

RESEARCH ASSOCIATE

Lankeanu Institute for Medical Research will have a position available September 2002 to develop a novel gene therapy for prostate cancer and to isolate prostate stem cells. Applicants must have a Ph.D. or M.D. degree. Strong skills in molecular biology as well as experience with adenoviruses, flow cytometry, and transgenic mouse models for cancer are required. Salary will be commensurate with experience. Send statement of research interests, curriculum vitae, and names of three references to: **Dr. Janet Sawicki, Lankeanu Institute for Medical Research, 100 Lancaster Avenue, Wynnewood, PA 19014. E-mail: sawickij@mlhs.org.** *Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.*

SENIOR SCIENTIST

AmCyt, Inc., a leader in cell/tissue transplantation, is seeking highly qualified individuals to conduct cell biology, molecular biology, and biochemistry research related to the growth and differentiation of pancreatic cells to develop cell therapies for the control of diabetes and its complications. Must possess Ph.D. in cell biology or related field. AmCyt is privately held and well financed. The Company operates in a modern, spacious, and well-equipped facility located in Santa Monica, California. We offer a competitive salary and benefit package. Interested candidates should contact us via **e-mail: hrcode123@amcyte.com; FAX: 310-453-6178.**

A **POSTDOCTORAL FELLOWSHIP** is available to participate in an NIA and Alzheimer Association-funded study of beta-amyloid mediated impairments in synaptic function using a wide range of techniques including patch clamp and imaging, in transgenic mouse hippocampal slices. Electrophysiology background required. The laboratory offers a highly interactive environment and competitive salary. Send curriculum vitae and two letters of recommendation to: **Dr. Barbara Trommer, Evanston Hospital, 2650 Ridge Avenue, Evanston IL 60201 or e-mail: btrommer@northwestern.edu.**



**POSTDOCTORAL FELLOWSHIP
IN GENE THERAPY
Rochester, Minnesota, U.S.A.**

Postdoctoral research fellow position available immediately in NIH-funded program studying gene therapy approaches to complications of cardiac transplantation. The focus of the current project is to study gene therapy approaches to the treatment of chronic graft vasculopathy. Previous experience in Molecular Biology and Stem Cell Biology would be advantageous.

Salary will be determined by the successful candidate's experience. There is an attractive benefit package. Mayo Clinic is a not-for-profit organization. Mayo integrates research with clinical practice and education in a multi-campus environment. For further information please visit <http://www.mayo.edu/research/>.

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

Christopher G. A. McGregor, MB, FRCS
Director
Mayo Clinic William J. von Liebig Transplant Center
6-716 Mary Brigh D
Saint Marys Hospital, Rochester, MN 55905
(507) 255-6038 / (507) 255-4500
mcgregor.christopher@mayo.edu

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

**UNIVERSITY OF MASSACHUSETTS
MEDICAL SCHOOL**

THE GRADUATE SCHOOL OF BIOMEDICAL SCIENCES

► Dean

The University of Massachusetts Medical School seeks applications and nominations for the position of Dean, Graduate School of Biomedical Sciences. The School's rapid growth in both basic and clinical faculty is paralleled by the recent completion of new research buildings and facilities. The School's aggressive goals for growth and excellence in research have provided this exciting leadership opportunity for achieving commensurate prominence in its graduate program. The Dean will report directly to the Chancellor of the Medical School, and will assume the responsibility for an important leadership role in developing and implementing a strategic vision for the graduate program. Specific responsibilities of the Dean include graduate school governance, policy, curriculum and finance, and graduate student education and recruitment.

Applicants should submit a statement of interest and a curriculum vitae to: Dr. Leslie J. Berg, Professor of Pathology, Chair, Graduate School of Biomedical Sciences Search Committee, Department of Pathology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01655; E-mail: Leslie.Berg@umassmed.edu.



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

**Max Planck Institute
for Plant Breeding
Research**



<http://www.mpiz-koeln.mpg.de>

The Max Planck Institute for Plant Breeding Research (MPIZ) is one of the world's premier sites committed to basic research and training in plant science. The institute consists of four research departments and specialist support, totalling about 400 staff including externally funded positions. The working language is English. The institute has an opening for the position of

Director

to establish and lead a new research department. We seek applicants proposing new and original approaches to identify genetic mechanisms of phenotypic variation with potential in plant breeding. Candidates must have an outstanding record of research achievement.

The Max Planck Society is an independent, non-profit organization that promotes research in its own institutes. The Max Planck Society invites the pursuit of new, challenging directions that require longterm commitment of generous resources. A position as Director at a Max Planck Institute compares favourably with a Full Investigator position of the Howard Hughes Medical Institute or similar appointments.

To ensure full consideration, submit your application by July 31, 2002. Short-listed candidates will be invited to a two-day symposium (November 15th and 16th, 2002) entitled "Genetic Mechanisms of Phenotypic Variation in Plants", at which they will have the opportunity to present their research activities.

The Max Planck Society is an Equal Opportunity Employer.

Qualified candidates should send a curriculum vitae including a full list of publications (with three key publications highlighted) and a two-page research vision for the new direction of the department to

**Max Planck Institute for
Plant Breeding Research**

Dept. of Plant Microbe Interactions
Jutta Weinand,
Office of the Managing Director
Carl-von-Linne-Weg 10
D-50892 Cologne, Germany
e-mail:
weinand@mpiz-koeln.mpg.de



MAX-PLANCK-GESellschaft

POSITIONS OPEN



DONALD DANFORTH
PLANT SCIENCE CENTER

COMPUTATIONAL BIOLOGY AND BIOCHEMISTRY

The Donald Danforth Plant Science Center, an independent research institute in St. Louis, Missouri, announces a position for an entry- or midlevel **PRINCIPAL INVESTIGATOR** in computational biology and biochemistry with particular interest in modeling of proteins in metabolic and/or regulatory pathways. The successful candidate will join a growing group of Structural Biologists, Biochemists, Cell Biologists, and Geneticists in fundamental and applied discoveries in plant biology. The Danforth Center is located in a strong scientific community that emphasizes plant and life sciences. Opportunities for adjunct faculty positions in partnering academic institutions. See website: <http://www.danforthcenter.org> for additional information. Applicant should submit curriculum vitae, selected reprints, and a description of future research to: Ms. Kathleen Mackey, Administrative Assistant, Donald Danforth Plant Science Center, 975 North Warson Road, St. Louis, MO 63132. E-mail: kmackey@danforthcenter.org. The Donald Danforth Plant Science Center is an Equal Opportunity/Affirmative Action Employer and encourages applications from underrepresented groups including minorities, women, and people with disabilities.

The Cardiovascular Center of the Medical College of Wisconsin is seeking a **QUALIFIED CANDIDATE WITH A PH.D. DEGREE** to participate in studies involving ion channel function in vascular smooth muscle cells, endothelial or epithelial cells, neurons, and in astrocytes. Specific project will identify and characterize ion channels including K⁺ channels, Ca²⁺ channels, and Na⁺ channels and their interaction with fatty acid metabolites and different second messenger molecules. Experience in molecular biology is desirable. The Cardiovascular Center provides an excellent laboratory and research environment. If interested, please send curriculum vitae and names of three references to:

David D. Harder, Ph.D.
Professor of Physiology
Director, Cardiovascular Center
c/o Debebe Gebremedhin, Ph.D.
Medical College of Wisconsin
8701 Watertown Plank Road
Milwaukee, WI 53226
E-mail: mariyei@mcw.edu

THREE POSTDOCTORAL POSITIONS Bioconjugation; Organic Synthesis; Ta, W, and Ln Cluster Chemistries

Background in organic synthesis, bioconjugation to peptides/monoclonals/AAV, early metal or lanthanide clusters, 1-D/2-D NMR spectroscopy, or relaxometry desirable. Interdisciplinary collaborations with University of Iowa Medical School. Salary: \$28,500 plus fringe benefits; start summer 2002. Send résumé (e-mail OK; no attachments) and arrange three recommendation letters to be sent separately to: Professor L. Messerle, Chemistry Department, University of Iowa, Iowa City, IA 52242. E-mail: lou-messerle@uiowa.edu. Equal Opportunity/Affirmative Action Employer. Women and minorities encouraged to apply.

POSTDOCTORAL POSITIONS

Positions are available immediately in Dr. Alexander Chervonsky's laboratory to study development of autoimmune T cells, mechanisms of cell death in autoimmunity, and organogenic function of lymphocytes. All projects are funded by NIH or JDRF grants. Expertise in cellular and molecular immunology and vascular biology is a plus. Send curriculum vitae and references to: Dr. Alexander Chervonsky, The Jackson Laboratory, 600 Main Street, Bar Harbor, ME 04609. E-mail: avc@jax.org.

POSITIONS OPEN

CLINICAL DEVELOPMENT COORDINATOR

Symbiotix, Inc. is a company that serves pharmaceutical, medical, and biotechnology objectives with marketing and education strategies. We are seeking an individual to fill the position of Clinical Development Coordinator.

The successful candidate will be responsible for managing, writing, and editing content for medical education and marketing programming; developing educational materials and slide presentations to explain scientific concepts to a variety of audiences in the health care industry; attending scientific meetings; and forging links with the scientific community. Requirements for this position include an advanced degree in pharmacy or nursing or related field, three to five years of medical education experience, proficiency with Microsoft Office 2000, excellent literary abilities, precise attention to detail, and ability to travel up to 15% including weekend and overnight stays.

If interested and qualified, please FAX, e-mail, or mail your résumé with two medical writing samples to:

Symbiotix, Inc.
Human Resources Manager
213 West Main Street
Danville, KY 40422
FAX: 859-236-6008
E-mail: ktillet@symbiotixonline.com

PROFESSOR IN BIOPHYSICS

Ecole Nationale Supérieure de Physique de Grenoble (ENSPG) trains Physics Engineers and has recently opened a program in instrumentation for biotechnologies including biomedical instrumentation and biosensors such as biochips. The successful candidate is expected to lead both the research and the training aspects of this program. Research will take place at Laboratoire des Matériaux et du Génie Physique (LMGP), a CNRS-affiliated Laboratory in Materials Science. The new research activity should be focused on analysis and control of interactions between inorganic and biological materials.

Applicants for this tenured position, to start in September 2003, must have the French "qualification" granted by a national committee (Conseil National des Universités) on the basis of research and teaching experience. Application for the qualification must be filed by October 8, 2002.

Further information can be obtained from e-mail: Directeur.enspg@inpg.fr. Interested individuals should send documentation on their teaching and research interests and experience; an updated curriculum vitae; and a list of three potential references before September 15, 2002, to: Direction ENSPG, Domaine Universitaire - BP 46, F-38402 Saint Martin d'Hères Cedex; Téléphone: 33 (0)4 76 82 63 20; FAX: 33 (0)4 76 82 64 70.

MEDICAL WRITER

AdvancMed, LLC, is an ACCME accredited provider of continuing medical education that provides clients in the medical, pharmaceutical, and biotechnology industry with educational and communication strategies. We are seeking an individual to fill the position of Medical Writer in Lexington, Kentucky. The successful candidate will be responsible for writing and editing medical presentations and manuscripts, attending scientific meetings, and forging links with the scientific community. Requirements for this position include a Ph.D. in life sciences, three to five years of medical writing and publication experience, excellent literary abilities, precise attention to detail, proficiency with Microsoft Office 2000, and ability to travel up to 15% including weekend and overnight stays. If interested and qualified, please FAX, e-mail, or mail your résumé with two medical writing samples to:

AdvancMed, LLC
Human Resources Manager
213 West Main Street
Danville, KY 40422
FAX: 859-236-6008
E-mail: ktillet@advancmed.org

POSITIONS OPEN



POSTDOCTORAL FELLOWSHIP Bioinformatics Research Center

The Bioinformatics Research Center at the Medical College of Wisconsin seeks two Postdoctoral Fellows to join its team. The candidate for our Advanced Applications group will focus efforts on the design and development of a bioinformatics tool applied to data derived from genomic experiments and provide support for the analysis of such data. Candidate must have a Ph.D. in biomedical sciences, biology, or a related area. The activities for our second Postdoctoral position will involve the development and analysis of biomedical data derived from microarray experiments in prostate cancer and hematopoietic disorders using the concepts, tools, and methods of bioinformatics. Candidate must have a Ph.D. in biomedical sciences, mathematics, computer science, or a related area. Both projects can involve database design and implementation, CGI and JAVA application design, and the implementation and development of computational strategies and analysis for genomic and genetic data. Applicants should send curriculum vitae and names of two references to:

Medical College of Wisconsin
Department PF10
8701 Watertown Plank Road
Milwaukee, WI 53226
Telephone Jobline: 414-456-8193
E-mail: mcw_emp@mcw.edu

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

The Cardiovascular Center of the Medical College of Wisconsin is seeking a **QUALIFIED CANDIDATE WITH A PH.D. DEGREE** to participate in studies of the role of cytochrome P450 enzymes in regulation of cerebral blood flow under physiological and pathological conditions. These studies involved immunocytochemistry, confocal microscopy, image analysis, cell culturing, *in situ* hybridization, and molecular biological techniques. Candidates with Ph.D. in neuroscience and expertise in one or more of these methods are required. The Cardiovascular Center provides an excellent laboratory and research environment. If interested, please send curriculum vitae and names of three references to:

David R. Harder, Ph.D.
Professor of Physiology
Director, Cardiovascular Center
Medical College of Wisconsin
8701 Watertown Plank Road
Milwaukee, WI 53226
E-mail: jam@mcw.edu

Two **POSTDOCTORAL POSITIONS** available to explore opportunities in protein engineering and to study enzymatic carbohydrate modification. Candidates with experience in heterologous protein expression, protein engineering, and/or enzymology are encouraged to apply. Analytical skills and experiences with protein purification, enzyme assay development, and carbohydrate chemistry are desirable. Two-year positions with competitive salary. Contact: Dr. Rachel Chen; e-mail: rchen@vcu.edu; website: <http://www.egr.vcu.edu>. Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disabilities are encouraged to apply.

POSTDOCTORAL AND TECHNICIAN POSITIONS available immediately in functional genomics/molecular ecology. Project uses chimeric receptor-like kinases and reporter constructs (e.g., GFP) in *Arabidopsis* to examine plant perception of and responses to natural and novel environmental stimuli including microbes, volatile chemicals, soil contaminants, and insects. Please e-mail curriculum vitae, interests, and names of three references to: Jack C. Schultz (e-mail: ujq@psu.edu) or Ramesh Raina (e-mail: rxx21@psu.edu). Affirmative Action/Equal Opportunity Employer.

DEPUTY DIRECTOR

The Division of Bacterial, Parasitic and Allergenic Products, Office of Vaccines Research and Review, Center for Biologics Evaluation and Research, Food and Drug Administration has an immediate opening for a Deputy Director. The incumbent of this position will represent and assist the Division Director in matters concerning the scientific and administrative activities of a division of approximately 100 employees as well as the regulation of vaccines and related products. The incumbent would also have the opportunity to pursue independent research. Laboratories are located on the campus of the National Institutes of Health in Bethesda, Maryland. A Ph.D. and/or M.D. degree and at least 10 years of postdoctoral experience are highly desirable. Candidates must be U.S. citizens. This position is subject to peer review. This position will be filled at the GS-14 or GS-15 level with a salary range of \$78,265-\$119,682.

Interested candidates should send a curriculum vitae, bibliography, statement of research interests and names/contact information for three references to: **Richard Walker, Center for Biologics Evaluation and Research, 1401 Rockville Pike, HFM-425, Rockville, Maryland 20852-1448 or e-mail walkerri@cber.fda.gov.**

FDA is an Equal Opportunity Employer. This Agency provides reasonable accommodations for people with disabilities.

SCIENTISTS

Dade Behring Inc. is a leading global provider of medical diagnostic instruments and reagent systems. Our medical diagnostic instrument and reagent systems and related products are found in clinical laboratories worldwide and in 90% of American hospitals. We have immediate needs for individuals interested in a technical leadership career at our Newark, DE facility.

Responsibilities include in-vitro diagnostics assay development projects. You will design assay formats, select techniques, and optimize reagent conditions for assays. Must have a Ph.D. in Biochemistry, Immunochimistry or any related field. Postdoctoral experience in Clinical Chemistry is desirable but not required.

For consideration, please send resume and salary requirements, including job title, to one of the following: **dadechem@dadebehring.com or FAX: (302) 631-0348; or mail to: Dade Behring, Inc., P.O. Box 6101, M/S 517, Newark, DE 19714-6101.**

DADE BEHRING

www.dadebehring.com
Equal Opportunity Employer

DIRECTOR, PRODUCT DEVELOPMENT

Diagnostic Laboratories
The Blood Center of
Southeastern Wisconsin



The Diagnostic Laboratories of The Blood Center are seeking an innovative and entrepreneurial scientist to lead the Product Development program. We are a rapidly growing, esoteric laboratory, providing molecular diagnostics, transplantation, hemostasis, and immunology services to patients worldwide. This individual will be charged with technology assessment and new test development to expand our test menu.

Qualified applicants will have a strong technical background, with at least 5 years laboratory experience, and have supervised technical staff. Experience in test development, validation and implementation, and strong project management skills are essential. Doctoral degree required. Applicants should submit curriculum vitae, including names of three references, and a statement of career interests to:

THE BLOOD CENTER
OF SOUTHEASTERN WISCONSIN, INC.



Debra Endean, Ph.D.
Vice President, Diagnostic Laboratories
The Blood Center of SE WI, Inc.
638 N 18th Street
P.O. Box 2178
Milwaukee, WI 53201-2178
Fax: 414-937-6470
www.bloodcenter.com
Hrservice@bcsew.edu

AA/E/O/E

PRINCIPAL INVESTIGATOR

Department of Medicine
Research Institute

The Research Institute of the Department of Medicine at Winthrop-University Hospital seeks an individual to assume the position of Principal Investigator in a newly formed multidisciplinary research unit designed to investigate aspects of vascular biology. The successful applicant will have an M.D. or Ph.D. and a track record of extramural funding. Expertise in the field of vascular biology is a prerequisite and will include experience with animal models of angiogenesis and/or vascular injury and experience in endothelial and/or vascular smooth muscle cell culture. Applicants should forward their curriculum vitae to: **Paul W. Whalen, Administrator, Department of Medicine, Winthrop-University Hospital, 259 First Street, Mineola, NY 11501. EOE-m/f/d/v**

Visit us at: **www.winthrop.org**

WINTHROP
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A Partner in the Winthrop South Nassau
University Health System, Inc.

ASSISTANT/ASSOCIATE/ FULL PROFESSOR

(Materials Science & Engineering/
one or more positions)

Center for Applied Information Technology and Learning (LSU CAPITAL)

This year, Louisiana State University (LSU) received \$7 million in new, recurring funding to lead an Information Technology initiative that is aimed at building research capacity and promoting economic development and diversification throughout the state. With this funding, LSU expects to hire between three and four dozen new faculty in several interdisciplinary "cluster" areas of information technology; to foster a vibrant interaction among all faculty engaged in information technology research and teaching, a Center for Applied Information Technology and Learning (LSU CAPITAL) also has been established (see www.lsu.edu/lrucapital/). In one cluster, which focuses on materials science and engineering, we seek to hire up to seven full-time, tenure-track faculty at the Assistant, Associate, and Full Professor levels.

Required Qualifications: an earned doctorate degree in Engineering, Science, Mathematics, or any other closely related field; proven record of leadership and accomplishments; must be self-motivated and demonstrate commitment to interdisciplinary research; must be able to work in teams, and seek external funding. Additional Qualifications Desired: research and teaching emphasis in nanotechnology, microelectromechanical systems (MEMS), biomaterials, smart materials, and microelectronics materials. Responsibilities: teach and advise undergraduate and graduate students, research, and outreach. Salary level and rank will be commensurate with qualifications and experience.

With an enrollment of about 31,000, LSU is a Doctoral/Research-Extensive University and the flagship University of the State of Louisiana. It is also both a land-grant and sea-grant University. With initial hires focused on senior faculty, review of applicants will begin on August 1, 2002, and will continue until all positions are filled. Questions regarding the positions can also be directed to **Dean Egbelu at 225/578-5701 (phone), 225/578-9162 (fax) and pegbelu@eng.lsu.edu**. Interested applicants should send application, including a full curriculum vitae, statement of professional interests, and the names, addresses, telephone, and e-mail of at least three references to:

Dean Pius J. Egbelu
Materials Science & Engineering Search
Committee
College of Engineering
3304 CEBA Building
Louisiana State University
Ref: Log #1004
Baton Rouge, LA 70803

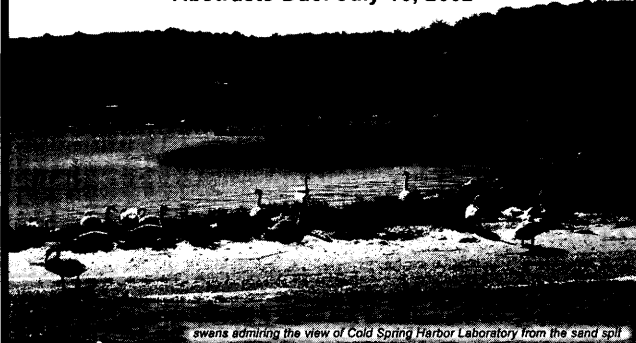
*LSU IS AN EQUAL OPPORTUNITY/
EQUAL ACCESS EMPLOYER*

Molecular Genetics of Aging

October 2 - 6, 2002



Abstracts Due: July 10, 2002



swans admiring the view of Cold Spring Harbor Laboratory from the sand spit

Organized by:

Ronald DePinho, *Dana Farber Cancer Institute*
Terri Grodzicker, *Cold Spring Harbor Laboratory*
Leonard Guarente, *Massachusetts Institute of Technology*
Cynthia Kenyon, *University of California, San Francisco*

Sessions & Discussion Leaders

- **Model Systems I**
Leonard Guarente & Gary Ruvkun
- **Model Systems II**
Vicki Lundblad & John Tower
- **Metabolism, Oxidative Stress and the Biology of Aging**
Douglas Wallace & Arlon Richardson
- **Telomere Dynamics and DNA Damage Pathways**
Titia DeLange & Stephen Jackson
- **Cell Senescence and Telomeres**
Judith Campisi & Robert Weinberg
- **Cancer**
Scott Lowe & Douglas Hanahan
- **Degenerative Diseases and Aging Syndromes**
George Martin & Rudolph Tanzi
- **Genomics and Stem Cells**
Irving Weissman & Helen Blau

Summer & Fall 2002 CSHL Meetings

- **Cancer Genetics and Tumor Suppressor Genes** Aug 14 - 18
- **Molecular Genetics of Bacteria & Phages** August 20 - 25
- **Mouse Molecular Genetics** August 28 - September 1
- **Translational Control** September 10 - 15
- **Dynamic Organization of Nuclear Function** Sept 18 - 22
- **Axon Guidance & Neural Plasticity** September 25 - 29
- **Germ Cells** October 9 - 13
- **Human Origins & Disease** October 30 - November 3
- **Tissue Engineering** November 21 - 24
- **Therapeutic Opportunities in Neurodegenerative Diseases** December 5 - 8
- **Comparative Plant Genomics** December 12 - 15

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The Buck Institute Symposium 2002, sponsored in part by Aging Cell, a major new journal on the biology of aging from Blackwell Publishing and the Anatomical Society, is to be launched at the following location on the dates listed below:

The Buck Institute Symposia on Aging

"Neuroendocrine Systems and Lifespan Determination"

September 24 - 27, 2002
Novato, California

The Buck Symposia aim to bring together researchers from a wide variety of disciplines to discuss and challenge major issues in aging research. This symposium will focus on the relationship between neuroendocrine signaling, metabolism, stress response, and aging. Participants will discuss the conservation of aging processes between invertebrates and mammals and will focus on the molecular and biochemical mechanisms of aging.

Featured speakers:

Julie Andersen, Buck Inst.; Steve Austad, Univ. of Idaho; Andrzej Bartke, Southern Illinois Univ.; Kenneth Beckman, Gorilla Genomics; Dale Bredesen, Buck Inst.; Ashley Bush, Harvard; Catherine Clarke, UCLA; David Clemmons, Univ. North Carolina; Leonard Guarente, MIT; Tom Johnson, Univ. of Colorado, Boulder; Cynthia Kenyon, UCSF; Gordon Lithgow, Buck Inst.; Simon Melov, Buck Inst.; Brian Merry, Northwestern Univ.; David Nicholls, Buck Inst.; Arlan Richardson, Univ. Texas; Peter Rotwein, Oregon Health Sciences Univ.; Gary Ruvkun, Harvard; Takuji Shirasawa, Tokyo Metro Inst. of Gerontology; William Sonntag, Wake Forest Univ.; John Speakman, Univ. of Aberdeen; Marc Tatar, Brown University; John Tower, USC; Wayne von Voorhies, New Mexico State Univ.

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Tom Johnson, Univ. of Colorado, Boulder

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Adrian R. Krainer, Ph.D.
Cold Spring Harbor Laboratory

Presenters:

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Duke University Medical Center

Douglas Black, Ph.D.
Howard Hughes Medical Institute, UCLA

Christopher Burge, Ph.D.
Massachusetts Institute of Technology

Jamal Tazi, Ph.D.
Institut de Génétique Moléculaire de Montpellier, CNRS

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Boehringer Ingelheim Vetmedica, Inc., a leading manufacturer of animal health products for a global market, has an immediate opening for a Senior Research Scientist in our St. Joseph, Missouri, facility. The successful candidate will focus on the research, development, and validation of assays to support biological research and development projects. The assays will be utilized by quality control (potency), production (in process), and research and development (clinical). Assays must have large quantities of reference reagent developed that meet all regulatory guidelines and assays validated to USDA-RELPLLOT and VICH standards.

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Private research organization has an immediate opening for a Neuroscientist to work with team of Researchers investigating repair of the damaged spinal cord in mammals. The applicant should have experience in creating uniform lesions in the spinal cord and be able to assay the effects of experimental treatments with behavioral, electrophysiological, or histological methods. We currently work with rats but our long-term goal is to apply cutting-edge scientific methods to the restoration of spinal cord function in humans. Our modern research facility is in a suburban area located in the Rocky Mountains. We offer pleasant working conditions and a competitive salary based on experience. To apply, please send curriculum vitae, contact information for three references, and a cover letter describing your vision of how this field of research should proceed to: **Director of Research, 19051 County Highway 1, Fergus Falls, MN 56537.**

POSTDOCTORAL POSITIONS

Fox Chase Cancer Center Breast Cancer Training Program offers several Postdoctoral positions in the area of breast cancer. Applications must include a letter of intent addressed to the Director of the Program (website: <http://www.fccc.edu/postdoc/BreastCaTraining.html>), a statement of the candidate's background interest and goals, curriculum vitae, and three letters of recommendation. Deadline for application is August 1, 2002. Send by U.S. mail to: **Human Resources, Attention to Breast Cancer Training Program, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.**

POSTDOCTORAL POSITION is available immediately in the Department of Medicine, Memorial Sloan-Kettering Cancer Center, to study the transcriptional regulation of genes involved in chemosensitivity. Candidates should have experience in molecular biology and promoter studies. *Applicant must be a U.S. citizen or permanent resident.* Please send curriculum vitae to: **Gary K. Schwartz, M.D., Director, Laboratory of New Drug Development, MSKCC, 1275 York Avenue, New York, NY 10021. FAX: 212-717-3320.**

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University of Medicine and Dentistry of New Jersey/New Jersey Dental School is developing as an outstanding center for genetic analysis of host-parasite interactions in specific opportunistic infections of oral origin. We have assembled a group of highly skilled Scientists who focus on bacterial/host interactions on the genetic level. Our group has developed quick and meaningful *in vitro* assays and animal models that form the basis for strategies to identify genes that can be used for diagnostic and preventive approaches to infectious diseases. We are currently seeking well-trained Molecular Biologists to pursue this area. A two-year **POSTDOCTORAL POSITION** is offered to a qualified individual with a Ph.D. in microbial genetics, preferably with an emphasis in the area of microbial pathogenesis. Our group is studying biofilm formation, adhesin-receptor interactions, and virulence determinants in *Actinobacillus actinomycetemcomitans*, a member of the *Haemophilus, Actinobacillus, Pasteurellaceae* group of opportunistic animal and human pathogens. Progress in this area has the potential to lead to a tenure-track position in the Department of Oral Biology in the Dental School. Please send résumé and three letters of recommendation to: **Professor Daniel H. Fine, Chair, Department of Oral Biology, University of Medicine and Dentistry of New Jersey, 185 South Orange Avenue, MSB C-636, Newark, NJ 07103. E-mail: finedh@umdnj.edu. UMDNJ is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL RESEARCHER POSITIONS

The Pennington Biomedical Research Center is seeking two Postdoctoral Researchers to study molecular and behavioral aspects of obesity and the regulation of energy balance and feeding behavior in natural and transgenic animal models. Qualified applicants will require a Ph.D. in biological sciences or a related subject and preferably should have experience in either molecular biology or the neurobiology of feeding behavior. Opportunities for broadening of practical expertise will be encouraged. Résumés will be accepted until positions are filled. Please submit cover letter and résumé to:

**Evelyn P. Bennett, Assistant Director, HRM
Reference: Postdoc-York-020182/020413
Pennington Biomedical Research Center
6400 Perkins Road
Baton Rouge, LA 70808-4124**

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POSTDOCTORAL POSITION Structural and Cellular Biology

A Postdoctoral position is immediately available to study the solution structure, ligands, and interactions of myosin binding proteins, which are key to the motor, regulatory, and scaffolding functions in the cytoskeleton and in muscle. Applicants should be familiar with protein structure determination by NMR and the expression of proteins for structural studies. The position will be jointly at the laboratories of **Professor Donald Fischman**, Weill Medical College of Cornell University, and of **Dr. David Cowburn** at the New York Structural Biology Center (website: <http://www.nysbc.org>). Please e-mail your application with the names of three references to e-mail: nysbc@nysbc.org.

The Center for Human Genomics of Wake Forest University School of Medicine is seeking **POSTDOCTORAL FELLOWS** to study the genetics of complex diseases. Current areas of research include the genetics of cardiovascular and respiratory diseases, diabetes and diabetic complications, prostate cancer, and estrogen action. Individuals with experience in molecular genetics, genetic epidemiology, and/or cell biology techniques including cell and tissue culture should apply. Please contact: **Mr. Aubrey Turner, Center for Human Genomics, Medical Center Boulevard, Winston-Salem, NC 27157. E-mail: aturner@wfbmc.edu. Wake Forest University School of Medicine is an Affirmative Action/Equal Opportunity Employer.**

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POSTDOCTORAL POSITIONS

Postdoctoral Scientists are sought in the following areas: **Roberta S. King, Ph.D.:** effects of biotransformation on xenobiotic toxicity and interindividual variation in response to drugs and carcinogens; **Bing-fang Yan, Ph.D.:** transcriptional regulation of genes encoding drug-metabolizing enzymes; **Zahir A. Shaikh, Ph.D.:** molecular mechanisms of oxidative stress and transcription factor involvement in metal-induced apoptosis. Prior experience with the following (applicable to one or more of the above projects) is preferred: recombinant techniques, protein-protein interaction assays, Western/Northern analyses, genotyping, protein purification, cell culture, 32P-postlabeling, enzyme kinetics, *in vitro* or *in vivo* metabolism, HPLC, MS, NMR, molecular modeling. Additional information may be obtained through the faculty link at website: <http://www.uri.edu/pharmacy/faculty/bms/index.html>. If you are a self-motivated and career-oriented individual, submit curriculum vitae, description of research experience and interests, contact information for three references, and possible start date to: **Postdoctoral Positions, Department of Biomedical Sciences, University of Rhode Island, 41 Lower College Road, Kingston, RI 02881. The University of Rhode Island is an Equal Opportunity Employer.**

POSTDOCTORAL AND SCIENTIST POSITIONS The Scripps Research Institute

We are recruiting Ph.D.s and M.D.s to participate in NIH-funded research projects relating to the cellular and molecular mechanisms underlying transbilayer movement of phosphatidylserine and other plasma membrane phospholipids in apoptotic or immune injured cells. Projects include elucidation of molecular structure and function of members of the newly discovered phospholipid scramblase (PLSCR) gene family. Gene knockout mice are available for these studies. Applicants should have expertise in molecular and cellular biology, animal physiology, protein chemistry, or structural biology. Interested individuals are invited to visit our website: <http://www.scripps.edu/mem/biochem/Sims/>.

Send curriculum vitae and references to: **Peter J. Sims, M.D., Ph.D., Department of Molecular and Experimental Medicine, MEM-275, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037.**

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

POSTDOCTORAL POSITIONS are immediately available to develop bacterial two-component signal transduction systems for function in plants. Areas of research include (1) *Agrobacterium* VirA/VirG, *E. coli* NarX-NarL, and UhpCBA bacterial two-component systems; (2) mutagenesis and directed evolution utilizing PCR-based and *in vivo* approaches. A strong background in bacterial or plant molecular biology is highly preferred. Send your curriculum vitae and three references to: **Sheilachu P. Gomez, Ph.D., Department of Microbiology and Cell Science, Box 110700, University of Florida, Gainesville, FL 32611-0700. E-mail: spgomez@mail.ifas.ufl.edu; website: <http://microcell.ufl.edu>. The University of Florida is an Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION PROTEIN-DNA RECOGNITION

Position available to study DNA binding antibodies involved in the pathogenesis of autoimmune disease (e.g., *Biochemistry* 40:2911, 2001). Applicants must have a strong background in protein chemistry and molecular biology. Prior experience in fluorescence techniques is desirable. Interested individuals should submit curriculum vitae and names of three references to:

Dr. Gary D. Glick
Departments of Chemistry
and Biological Chemistry
University of Michigan
930 North University Avenue
Ann Arbor, MI 48109-1055

A POSTDOCTORAL POSITION is available immediately for a CDC-funded study on novel therapies for multidrug-resistant bacteria. Applicants must have a Ph.D. in a biomolecular-related field. The successful candidate will develop therapeutics for the treatment of infections and eradication of colonization by clinically relevant, antibiotic-resistant organisms such as vancomycin-resistant *enterococci*. Applicants should provide a cover letter, curriculum vitae, and the names of three references to: **Dr. Roger T. Inouye**, Beth Israel Deaconess Medical Center, Division of Infectious Diseases, Harvard Institutes of Medicine Building, Room 219, 4 Blackfan Circle, Boston, MA 02115. E-mail: rinouye@caregroup.harvard.edu. The Beth Israel Deaconess Medical Center is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE: Ph.D. in biochemistry required along with the following experience: analysis and metabolism of lipids, regulation of cholesterol synthesis and turnover, bile acid metabolism, DNA sequencing, and HPLC and transgenic mouse experience. Annual salary: \$30,000. The project involves intestinal handling of lipids and will entail work with different transgenic animal models. Please send résumé to: **Dr. Nada Abumrad**, Department of Physiology and Biophysics, Basic Science Tower, Level 6, Room 140, Stony Brook University, Stony Brook, NY 11794-8661. Affirmative Action/Equal Opportunity Employer.

Three POSTDOCTORAL POSITIONS available immediately to study developmental neurobiology of mental diseases, developmental effects of prenatal cocaine exposure, and developmental plasticity of somatic pain circuitry. The projects employ real time RT-PCR, *in situ* hybridization, and Western blots. The candidate must be familiar with these techniques and hold a Ph.D. in molecular biology, neuroscience, or related fields. Contact: **Dr. Michael S. Lidow**, Department of OCBS, University of Maryland, HHH, 5-A-12, 666 West Baltimore Street, Baltimore, MD 21201. E-mail: mlidow@umaryland.edu.

POSTDOCTORAL POSITION available to study the recognition and repair of cisplatin-DNA damage. Our NIH-funded project uses state-of-the-art techniques to investigate mammalian DNA repair pathways and their influence on chemotherapeutic efficacy. Experience in molecular biology and biochemistry is preferred. Applicants should send complete curriculum vitae and the names of three references to: **Dr. John Turchi**; e-mail: john.turchi@wright.edu. For more information visit our website: <http://www.med.wright.edu/bmb/jt/jt.htm>. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately for NIH-funded research project on RNA structure-function. Candidates must have a Ph.D. in chemistry, biochemistry, molecular biology, or allied field. Previous experience with RNA and/or NMR a plus. Please send curriculum vitae and names of three references to: **Professor J.V. Hines**, Department of Chemistry and Biochemistry, Ohio University, Athens, OH 45701. Ohio University is an Equal Opportunity/Affirmative Action Employer.

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Two POSTDOCTORAL POSITIONS are available in the Department of Pathology at the University of Pennsylvania School of Dental Medicine to study the mechanisms of microbial modulation of the human immune response. Studies will focus on bacterial modulators of lymphocyte cell cycle progression and apoptosis with particular emphasis on immunosuppressive proteins expressed by spirochaetes, *Fusobacterium* and *Actinobacillus actinomycetemcomitans*. A background and expertise in biochemistry, cell biology, and/or immunology is required for one position; the second position requires a background in microbiology and molecular biology. Send curriculum vitae and the names of at least three references to: **Dr. Bruce Shenker**, Professor and Chair, Department of Pathology, University of Pennsylvania, School of Dental Medicine, 4010 Locust Street, Philadelphia, PA 19104-6002. FAX: 215-573-2050; e-mail: shenker@pobox.upenn.edu. University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION Signal Transduction

Available in the laboratory of immunochemistry of the Immunology Program at Memorial Sloan-Kettering Cancer Center, New York. We seek a bright young Scientist to help solve the long-standing enigma of zinc-finger domains of signaling molecules (see website: http://www.ski.edu/lab_homepage.cfm?lab=156).

The successful candidate will have expertise in protein biochemistry and/or cellular immunology as well as knowledge of molecular biology. Please send curriculum vitae and references to: **Ulrich Hammerling**, Ph.D.; e-mail: u-hammerling@ski.mskcc.org.

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POSTDOCTORAL POSITIONS

Two Postdoctoral positions are available immediately to study the following projects: (1) DNA repair, genetic instability, and tumor cell resistance to chemotherapy and radiation therapy; (2) PNA binding-induced transcription and gene targeting. Recent Ph.D.s with strong research experience in molecular biology and/or biochemistry are preferred. Salaries are commensurate with research experience. Send curriculum vitae and addresses of three references to: **Dr. Gan Wang**, Institute of Environmental Health Science, Wayne State University, 2727 Second Avenue, Room 4325, Detroit, MI 48201. Telephone: 01-313-964-8140; FAX: 01-313-577-0082; e-mail: g.wang@wayne.edu.

POSITIONS OPEN

DEPARTMENT OF PSYCHIATRY AND HUMAN BEHAVIOR College of Medicine

POSTDOCTORAL POSITIONS are immediately open for research in the areas of schizophrenia, bipolar disorder, and gene expression. Additional projects include analysis and models of underlying causes of gene expression differences in neuropsychiatric disorders. The laboratory is housed in a neuroscience facility that includes a dedicated laser capture microscope, Affymetrix gene chip, and TaqMan equipment. Candidates must have a Ph.D. or M.D. The salary range is \$31,044 to \$40,512 annually. Qualified candidates may send curriculum vitae, scientific aspirations, and three references to: **Marquis P. Vawter, Ph.D.**, Department of Psychiatry and Human Behavior, Med Sci I, Room D433, University of California, Irvine, Irvine, CA 92697-1675. FAX: 949-824-7012; e-mail: mavawter@uci.edu. Closing date: July 8, 2002. UCI is an Equal Opportunity Employer committed to excellence through diversity.

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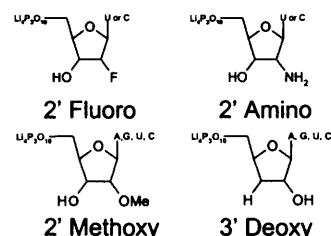


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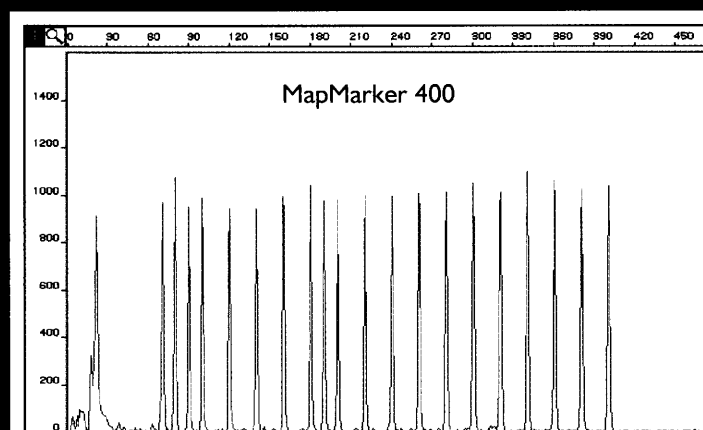


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- MapMarkers are stable for 18 months when properly stored.



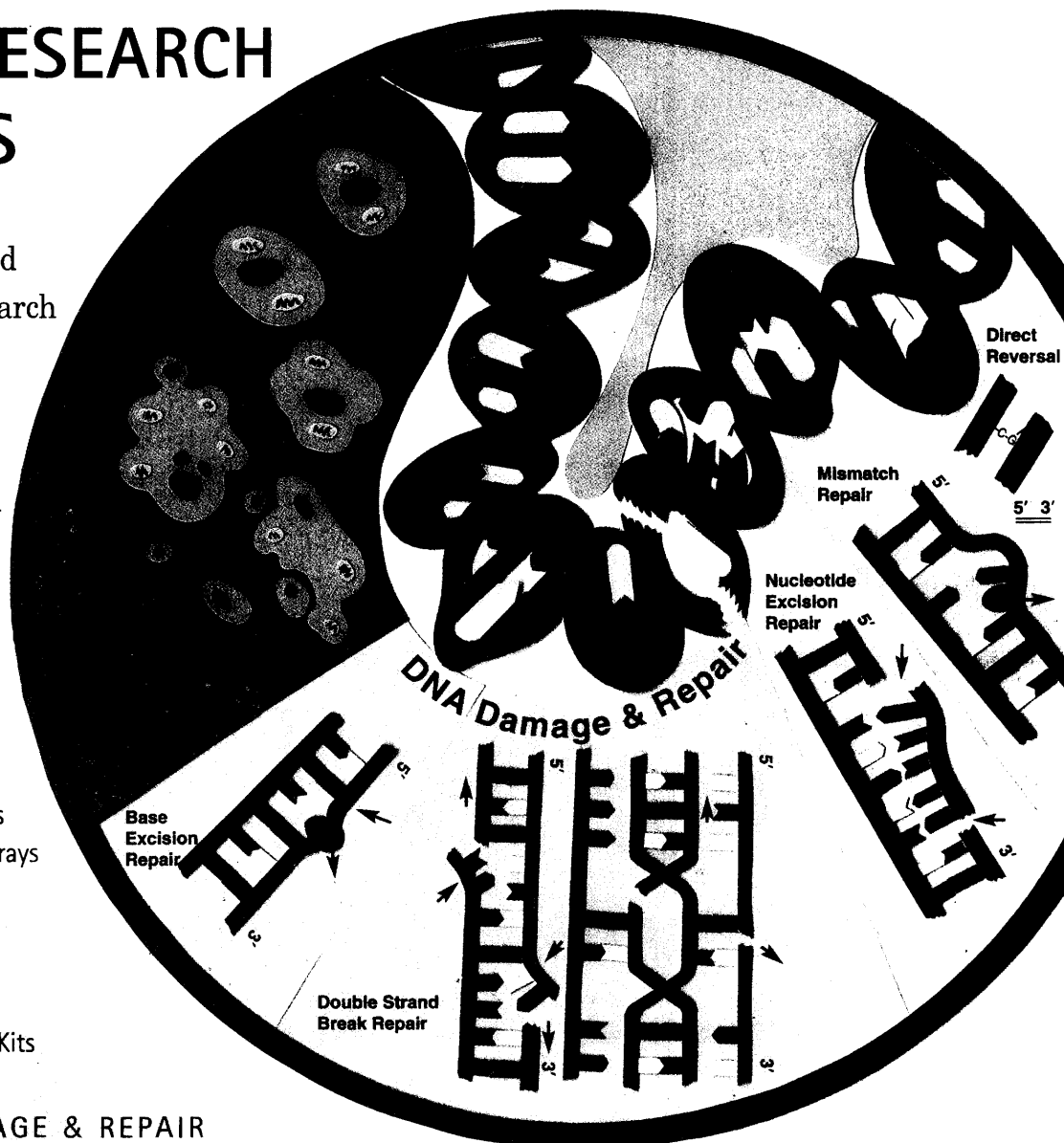
Above is an example of Rhodamine-X labeled MapMarker 70-400 sizing standard run on ABI model 310 Genetic Analyzer™. Marker bands are 70, 80, 90, 100, 120, 140, 160, 180, 190, 200, 220, 240, 260, 280, 300, 320, 340, 360, 380, and 400 nucleotides long.

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DNA damage can result in changes in normal cellular function (i.e. replication or transcription). Cells use five basic types of DNA repair processes to counteract the deleterious effects of DNA damage: base excision repair, double-strand break repair, nucleotide excision repair, mismatch repair and direct reversal. All of these mechanisms work in concert with the cell cycle and apoptosis to maintain genomic fidelity and integrity.

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