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# **NEW PRODUCTS**

MacClade 4 Sinauer Associates Sunderland, MA \$125.00 413-549-4300 http://sinauer.com

# **FAMILY TREES**

MacClade 4 is a program for gathering, manipulating, and analyzing phylogenetic data and testing hypotheses about character evolution. A hefty manual over 500 pages long (in the form of a PDF file) accompanies the program. Those

not versed in phylogenetics will need to read and understand this manual to take full advantage of the power of this program.

MacClade is very rich in features and, consequently, is difficult to accurately summarize in a short review. The program presents four different windows for work: the data editor, the list window, the chart window, and the tree window. With the data editor, data can be imported or manually entered. Here, data are presented in color, simplifying manipulation and analysis by visual inspection, especially for molecular data. Taxa are shown in the left column, whereas the molecular data are shown on the right as "characters." Once the data are entered, assumptions can be specified for each character via a "character list" window. In the list window, characters can be ordered, included, or not included in the analysis and so on. In addition, a selected character from this list can be plotted in the chart window. For example, a molecular biologist will find that the number of transitions and transversions for each nucleotide that separate the various sequences under analysis can easily be plotted.

A generic tree of the entered data is presented in the tree window, representing a hypothesis of the evolution of the characters in the data. An extensive tool palette provides tools for moving branches, re-rooting clades, or searching for a more parsimonious tree. By manipulating the different branches of the tree and tracing the various characters, an attempt is made to find a tree that could potentially be correct. The evolution of a particular characteristic can be traced using color, which makes the determination of character evolution a visual and more pleasant task. To assist in the formulation of a likely correct hypothesis, MacClade also tracks the tree length, a statistic that indicates how well the tree fits the input data (the shorter the length, the better the fit).

MacClade is a powerful and complex program for the serious student of phylogenetic analysis and character evolution. Despite its steep learning curve, it is a program that has a lot to offer, even for the uninitiated molecular biologist. In this respect, MacClade should be a part of any serious biologist's toolbox.

# ---Yiannis A. Ioannou

Department of Human Genetics, The Mount Sinai School of Medicine, New York, NY 10029, USA. E-mail: yiannis.ioannou@mssm.edu

**Guava Technologies** 

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# ies PERSONAL CYTOMETER

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on a single backplate and eliminate the

need for clumsy "octopus" cables. The PCI card is plug-and-play. The ISA slots require card configuration, but a userfriendly manual includes detailed configuration instructions. Both cards come with an extensive collection of applications programs and drivers on CD.



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mixtures. SeleXtrac membrane modules are designed with advanced hollow fiber membranes that have pores impregnated CONTINUED ON PAGE 2346

## CONTINUED FROM PAGE 2345

with a polymeric liquid with an affinity for the organic compound of interest. Unlike the conventional sieving or rejection of molecules through the membrane pores, the SeleXtrac membrane's ability to separate compounds from a liquid or gas stream depends primarily on the chemical properties of the liquid polymer that is impregnated in the pores. SeleXtrac liquid membranes selectively transport and extract specific compounds by making use of various molecular properties such as hydrophobicity, hydrogen bonding capability, and the degree of dissociation. SeleXtrac modules are designed for versatile extraction of liquid-liquid, liquid-gas, and gas-gas mixtures. The fast extraction procedure with no toxic solvents or phase separation is suitable for the extraction of non-ionic acids; basic organic compounds such as phenol, phenolics, nitriles, esters, carboxylic acids, aromatic amines, and chlorinated hydrocarbons; and volatile organic compounds such as alcohols, esters, and chlorinated solvents.

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For more information call 520-889-9933 or **circle 144** on the Reader Service Card www.roperscientific.com The Photometrics Series 400 digital camera system for low-light imaging is designed to be both a complete imaging solution for researchers and an easy-to-integrate imaging engine for original equipment manufacturers. The

16-bit system makes use of the latest in surface-mount technology to consolidate all camera electronics within a compact camera head, eliminating the need for an external controller unit. Application flexibility is provided by a selection of front- and backilluminated charge-coupled devices (CCDs), which are available in different pixel sizes, array dimensions, and levels of sensitivity. A 1-MHz readout rate permits easy setup and focusing, while the low-noise 200-kHz readout delivers optimum data acquisition. Low-light performance is further enhanced by deep-thermoelectric CCD cooling to  $-50^{\circ}$ C in a forced-air version and to  $-60^{\circ}$ C in a liquid-cooled version.

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# POSITIONS OPEN

#### DEAN COLLEGE OF SCIENCE AND ENGINEERING San Francisco State University

Nomination and applications are invited for the position of Dean of Science and Engineering at SFSU. The Dean is the chief academic, fiscal, and administrative officer of the College and has responsibility for curriculum planning and development, faculty and staff evaluation and development, budget, and facilities. Applicants must possess an earned Doctoral degree in a relevant field; an outstanding record of scholarship, research, and teaching; and administrative experience in higher education and/or professional experience.

The College offers programs at the undergraduate and Master's degree levels through the departments of Biology, Chemistry and Biochemistry, Computer Science, Geosciences, Mathematics, Physics and Astronomy, and the School of Engineering. In addition, as part of its commitment to research the College operates the Sierra Nevada field campus at Yuba Pass, the Romberg Tiburon Center for Environmental Studies on San Francisco Bay, and participates in a consortium of California universities at The Moss Landing Marine Laboratories. The College is made up of approximately 175 full-time equivalent faculty and 3,500 students.

SFSU is a large, comprehensive, diverse university located in an unusually vibrant and beautiful city. Through its nine Colleges, SFSU offers 118 undergraduate and 97 graduate degrees and two joint Doctoral degrees offered with University of California, Berkeley. SFSU is part of the 23-campus California State University system.

Starting date is negotiable; start no later than fall semester 2002. Review of applications and nominations will begin on September 14, 2001. Late applications will be accepted and evaluated until the position is filled.

For a complete position description and application procedures, visit the CSU Employment website: http://www.sfsu.edu/hrwww/jobs/careerop.htm or contact: Office of the Provost, SFSU; Telephone: 415-338-1141.

#### CHAIR OF BIOLOGY RENSSELAER POLYTECHNIC INSTITUTE

The Biology Department at Rensselaer invites nominations and applications for the position of FULL PROFESSOR and DEPARTMENT CHAIR. This position is open at a time when unprecedented resources have become available for the development of research initiatives in biological sciences at Rensselaer. The Chair will lead the Department during a period of rapid growth in biotechnology on campus including a new interdisciplinary biotechnology research building and expansion of the faculty and graduate programs in life sciences. In addition to existing research programs in molecular biomedical and environmental biology within the Department, Rensselaer seeks to increase research in integrative systems biology, biocatalysis, and functional tissue engineering. The appointee will play a key role in strengthening existing research and in developing these areas. The appointee must have a continuing record of research leadership and a comprehensive understanding of biology and the university environment.

Send nominations and applications to: Ms. Jan MacDonald, Department of Biology, Rensselaer Polytechnic Institute, Troy, NY 12180-3590. Formal applications should contain curriculum vitae, a statement of goals, and contact information for three references.

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# POSITIONS OPEN

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To apply, send statements of research and teaching interests and goals, curriculum vitae, four letters of reference, and reprints to:

#### Dr. Mike Walters, Chair Forest Ecology Search Committee Department of Forestry 126 Natural Resources Building Michigan State University East Lansing, MI 48824-1222 U.S.A.

To ensure full consideration, submit application materials by August 30, 2001. For more information, contact: Mike Walters; e-mail: mwalters@msu.edu; Telephone: 517-355-1762. Michigan State University is committed to building a diverse faculty, so candidates from underrepresented groups are especially encouraged to apply. MSU is an Affirmative Action/Equal Opportunity Employer. Persons with disabilities have the right to request and receive reasonable accommodation.

Entomology: ASSISTANT PROFESSOR of entomology, tenure-track position, specializing in honeybee behavior, genetics, and pest management. The incumbent will develop a strong extramurally funded research and extension program addressing those genetic traits of honeybees and honeybee behavior that affect pollination, stinging, honey production, honeybee pest resistance, and related issues that impact the beekeeping industry. Research will focus on the genetics of social behavior in honeybees, honeybee genomics, and development of practical solutions to problems faced by beekeepers and agricultural producers. Extension efforts should be supported through research and demonstration activities. Collaboration with other Purdue University specialists is expected, and research and extension should be coordinated with specialists in neighboring states. The incumbent will be expected to develop and teach a course in beekeeping and insect behavior or related fields. The successful candidate will be encouraged to develop an international component to their pro-gram. The position is located on the West Lafayette, Indiana, campus. Candidates should have a Ph.D. in entomology or related field of agriculture with demonstrable knowledge and experience in molecular genetics. Knowledge of beekeeping practices and experience as a beekeeper are essential. Extension experience is desirable. Ability to communicate effectively both orally and in writing for audiences of different educational backgrounds is critical. Send curriculum vitae; reprints; Ph.D. dissertation summary; names and addresses of five references; and a statement of research, extension, and teaching experience by May 31, 2001, to: Dr. Jeff Stuart, Chair of Search Committee, Department of Entomology, 1158 Smith Hall, Purdue University, West Lafayette, IN 47907-1158. Telephone: 765-494-4561; e-mail: jeff\_stuart@entm.purdue.edu. Perdue University is an Equal Opportunity/Affirmative Action Employer.

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# SINGAPORE ENTERING INTO THE NEW FRONTIERS OF SCIENCE

# INTRODUCTION

Singapore, known for its colourful cultures, multiracial mix and irresistible cuisine is entering into new frontiers of the knowledge-based industry with a big bang. This young nation has big dreams — to develop into a vibrant Biomedical Science hub.

# ROBUST GROWTH OF BIOMEDICAL INDUSTRY

The Singapore Economic Development Board (EDB), Singapore's lead agency for investment promotion, has identified the Biomedical Sciences as a key industry to develop. Comprising pharmaceuticals, medical devices, biotechnology and healthcare services, Singapore is committed to be a global player in this knowledge-intensive industry. Our goal is to build world-class capabilities across the entire value chain — from research & development to product/process development, clinical development, fullscale manufacturing and headquarter activities.

Over the last 5 years, the manufacturing output of the Biomedical Sciences industry has more than doubled to reach US\$3.6 billion in 2000, while its value-added increased to US\$3 billion. By 2005 the manufacturing output is expected to double again to reach US\$7 billion. By 2010, Singapore aims to be home to 15 world-class pharmaceutical companies, and be a regional centre for clinical trials and drug development.

Today, leading Biomedical companies such as Aventis, Baxter, Becton Dickinson, GlaxoSmithKline, Merck Sharp & Dohme, Pfizer, Schering-Plough and Wyeth-Ayerst have global manufacturing facilities in Singapore. To enhance the level of private sector R&D activities, the EDB was allocated a US\$600 million fund to attract leading companies, including Biomedical Sciences companies, to invest in corporate research centres in Singapore. A further US\$600 million has been dedicated to a Biomedical Sciences Investment Fund to form joint-ventures, invest in promising overseas biotech companies and local start-ups.





PUBLIC RESEARCH & DEVELOPMENT

As part of the National Science and Technology Board (NSTB), the Biomedical Research Council (BMRC) was recently established to further drive public sector biomedical research in Singapore across a continuum from basic to applied and clinical research. With a US\$800 million budget, BMRC's mission is to support, sustain and stimulate excellent research in the public domain and establish Singapore as a major R&D player.

In the last 20 years, Singapore has built up a range of Biomedical Science research capabilities among the publicly funded research institutes, centres and hospitals. The Institute of Molecular and Cell Biology (IMCB), established in 1987, is a key player with internationally competitive capabilities ranging from functional genomics to infectious disease and cancer research. In June 2000, IMCB was awarded the prestigious Nikkei Asia Prize for its excellence in basic research and technological innovation.

The Genome Institute of Singapore (GIS), launched in June 2000 as the Singapore Genomics Program, is a national flagship programme to catalyse genomics research in Singapore. Exploiting the local ethnic diversity, the GIS will develop an integrated functional genomics programme on



a platform of core technologies including genome-wide expression profiling, high throughput sequencing, molecular pathology and proteomics. Two other research institutes in the pipeline include the Bioinformatics Institute (BII), which will form the focus of research and teaching in bioinformatics, and the Institute of Bioengineering (IBE), which will consolidate

# ADVERTISEMENT,

and develop Singapore's existing expertise in cell- and tissueengineering, medical imaging and biomaterials.

The research institutes are complemented by a strong healthcare infrastructure, with an excellent medical records system. Singapore's national medical centres of excellence, such as the National Cancer Centre, National Heart Centre, National Neuroscience Institute and the Singapore National Eye Centre, focus on disease-specific areas and play a role in integrating clinical services, R&D and education.

# EXCELLENT PHYSICAL AND REGULATORY INFRASTRUCTURE

To bring the public and private sector biomedical activities together in one focal point, Singapore is embarking on a major initiative, building The Biopolis. The Biopolis will be a dedicated Biomedical Science park, housing core research institutes like the GIS and the BII, and provide laboratory space for private sector biomedical companies, supporting services such as legal and business services, as well as incubators for start-ups. It will be a thriving hub for Biomedical Sciences and encourage greater interaction between different players. The first phase of The Biopolis will be ready by 2003. In addition, the Tuas Biomedical Park currently offers prepared land for manufacturing facilities. Anchor tenants in the Park include Merck, Sharp & Dohme, Pfizer and Wyeth-Ayerst.

Over the years, Singapore has built up a track record as the regional hub for clinical trials and drug development through its adherence to good clinical practice and its transparent regulatory system. Since 1987, the Health Science Authority under the Ministry of Health has implemented a drug registration system under the Medicines Act and in 1988 the Centre for Drug Evaluation (CDE) was set up to evaluate and register new drugs, therapeutic products and devices. This has attracted leading industry players like AstraZeneca, Eli Lilly, Novo Nordisk and Pharmacia, and CROs like Quintiles and Covance to set their base for regional clinical development activities here.

Singapore has a strong Intellectual Property Rights (IPR) system that is fully compliant with the WTO's Trade-Related Aspects of Intellectual Property and has been consistently ranked tops by the Political and Economic Risk Consultancy for IPR protection in Asia.

# INCREASING PUBLIC AWARENESS

The EDB and BMRC, together with Science, are organising the first BioMedical Asia 2001 Symposium and Exhibition on 19-21 September 2001 in Singapore. The Symposium will offer a unique forum for scientists, research business investors, industry members, and professionals, from around the world to exchange ideas and network with each other. A national website at www.biomed-singapore.com serves to inform the public, investors and the scientific community about Biomedical Sciences activities in Singapore. From June 2001, a Job Marketplace will be available on this website for professionals interested in Biomedical Science careers in Singapore. BMRC will have a special programme for eminent scientists from all over to world to visit Singapore to share cutting-edge science and familiarise themselves with Singapore's growing biomedical research scene.



# OPPORTUNITIES APLENTY IN BIOMEDICAL SCIENCES

Besides numerous job opportunities for the resourceful and experienced scientist, Singapore also offers comprehensive education and healthcare services to cater to the needs of scientists and their families. The exciting, vibrant biomedical landscape and high standard of living in Singapore have already attracted a number of prominent scientists to pursue their research careers here.

Dr. Edison Liu, former Director of Clinical Science Division at the US National Cancer Institute, National Institutes of Health, and now Executive Director of GIS said. "Singapore is the most wired country in Asia. and has the highest educational standards in mathematics and science in the world. The operating practices are consonant with Western business operations. This coupled with the will of the Singapore leadership to succeed in the field of biomedical sciences makes for a winning combination." Also following suit is Dr. Gunaretnam Rajagopal, a theoretical physicist, who will be leaving the Cavendish Laboratory at Cambridge University. UK, where he has been for the past 10 years. to head the BII in Singapore.

- For more information on the Biomedical Sciences in Singapore, please visit our website at: http://www.biomedsingapore.com
- For more information on the Singapore Economic Development Board (SEDB), please contact SEDB at +65-336 2288 or visit our website at http://www.sedb.com
- For more information on the National Science and Technology Board, please contact +65-779 7066 or visit our website at http://www.nstb.gov.sg
- For more information on living & working in Singapore, please visit the Contact Singapore website at http://www.contactsingapore.org.sg



# The Bioinformatics Institute (BII)

The Bioinformatics Institute is a research and training organisation set up as part of a national initiative to advance biomedical research and development in Singapore. Bll has a strong focus on harnessing the power of genetics, bioinformatics, and the mathematical and physical sciences for innovative scientific discovery in biomedicine. In partnership with institutions of higher education in Singapore and centers of excellence we will be involved in postgraduate training in both fundamental and applied areas in biomedicine.

We invite applications from talented and highly motivated candidates to join us in building a center of excellence for research and teaching in biomedicine. Candidates should have a relevant background in the biomedical sciences, physical sciences, computer and computational science, engineering, statistics or mathematics and with excellent communication skills and a collaborative attitude to working in a multidisciplinary environment. Your research focus should be in the following areas: **bioinformatics, genomics (structural or functional)**, **proteomics, genetics (medical, quantitative/statistical and population)**, **neuroinformatics, medical informatics, medical imaging, mathematical biology, biostatistics or biophysics**.

Advantages of the appointments include opportunities for career advancement, fully funded research programmes, collaborations, overseas conference travel, and excellent computing facilities. In addition, an extremely attractive and competitive remuneration package is offered to all appointments.

# **Principal Investigators:**

We seek independent researchers with a strong track record of international publications to build worldclass research groups. Appointments will be made at the level of Assistant Professor to Full Professor depending on experience. Contracts will be for three to five years, renewable. About 10-15 positions (postdoctoral fellows, programmers, graduate students) come with the appointment. Joint appointments with departments and research institutes in Singapore, where appropriate, will be encouraged.

# **Post-Doctoral Research Fellows:**

We seek independent, highly motivated post-doctoral candidates who will participate in research programmes supervised by the principal and young investigators. Applicants should have an international publication record. Contracts are for up to three years in the first instance, with excellent opportunities for career advancement.

All applicants are required to submit the following:

- A cover letter stating post applied for;
- A curriculum vitae;
- A one-two page statement of research accomplishments and research goals (if applicable);
- A one-two page statement of teaching interests (if applicable);
- A list of publications;
- A list of names and contact information for three professional references.

Informal enquiries can be made to Dr. G. Rajagopal (g115@phy.cam.ac.uk or nstb\_research@nstb.gov.sg)

Closing date for applications is 15th July 2001

Applications should be posted to:

Head of Human Resource, National Science & Technology Board, 10 Science Park Road #01-01/03 The Alpha, Singapore Science Park II, Singapore 117684



# Young Investigators:

We seek independent researchers appointed at the level of Assistant Professor. Candidates should have at least **four** years postdoctoral research experience. Contracts are for a term of five years. Up to six positions (typically two postdoctoral fellows, a programmer and three graduate students) come with the appointment.

# Research Programmers:

We are seeking experienced programmers with a background in database development, data mining, mathematical modelling, software development. Preference will be given to candidates with a background or interest in the biomedical sciences and the desire to work in collaboration with scientists to solve complex research problems in biomedicine.

SINGAPORE

# DIRECTOR

# INSTITUTE OF MOLECULAR AND CELL BIOLOGY SINGAPORE

The Institute of Molecular and Cell Biology (IMCB) was established in 1987 as a first step in developing modern biomedical R&D capabilities in Singapore. From a modest start with a small group of 38 scientists and graduate students, the IMCB has grown into an established research institute with 26 independent research groups comprising an international complement of 250 scientists, including 70 postdoctoral fellows and 75 graduate students. Today, the IMCB is a leading center for innovative research in biomedical sciences and a top graduate school in the heart of the Asia Pacific region (see NIKKEI AWARD, Millennium 2000 Report [www.imcb.nus.edu.sg], Nature 1998, **394**, p604). IMCB's forte is in cell cycling, cell signaling, cell death, cell motility, and protein trafficking, as well as in the development of the nervous system and the immune system using the fly, mouse, rat, zebrafish and pufferfish as model systems (Nature 2000, **408**, p7).

We now seek a Director to build on the success of the IMCB's first 15 years, and to lead the next generation of scientists. Singapore has identified the Biomedical Science industry as a strategic pillar of a Knowledge Based Economy (Business Week 2000, **Nov 27**, p41. Nature, **407**, p1). This is an exciting time in Singapore for the Biomedical Sciences, as the technology infrastructure expands with newly established sister institutes such as the Bioinformatics Institute and the Singapore Genomics Program (Cancer Letters 2001, **27**, p2). IMCB's role is to remain as the key center for basic research and to nurture good science.

The Director will take on the challenges of bringing the IMCB to the next phase of research excellence and of collaborating with its sister institutes in promoting both translational and clinical research. He/She will have considerable freedom and support to lead over 300 scientists in this endeavour. He/She should have at least 10 years of experience as a Principal Investigator with an outstanding research and collaborative record. Nominations and/or applications should include a complete CV and names and addresses of 3 references to:

Lara Whiteman Biomedical Research Council National Science and Technology Board The Alpha Singapore Science Park II Singapore 117684 Tel: (65) 770-5823 Fax: (65) 779-8061 Email: Lara\_Jane\_Whiteman@nstb.gov.sg



Institute of Molecular & Cell Biology, Singapore

# Search Committee

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# THE NATIONAL UNIVERSITY of SINGAPORE

Founded 1905

To facilitate the development of the **National University of Singapore** as a world-class hub for Biomedical Sciences, the **Office of Life Sciences** at the National University of Singapore invites outstanding applicants to fill several cross-departmental faculty positions. Applicants are expected to be, or have the potential to become, leaders in research in the following areas:

Diseases

Cancer Aging / Neurobiology Vascular Biology / Angiogenesis Hepatology Infectious Diseases / Immunology

# **Platform Technologies**

Bioinformatics / Artificial Cognition Bioengineering Experimental Therapeutics Genomics / Proteomics / Structural Biology

Requirements for the positions include a PhD or equivalent degree, post-doctoral training, broad experience and proven track record in relevant areas of research. The positions require international stature, the ability to raise competitive grant funding and develop integrated scientific teams.

The National University of Singapore provides a rich multidisciplinary environment including opportunities for interaction with scientists and clinicians, and some participation in teaching programmes. Competitive salaries and start-up packages will be provided. Applications should include a resume, a brief statement of research experience, current and future directions, and the names and addresses of 3 referees.

For consideration please forward your application to: Office of Life Sciences

Clinical Research Centre National University of Singapore 10 Kent Ridge Crescent Singapore 119260 Email: olsgans@nus.edu.sg



THE NATIONAL UNIVERSITY of SINGAPORE



Founded 1905

The **Bioprocessing Technology Centre (BTC)** is a national R&D center focused on developing bioprocess capabilities to support the growth of a vibrant biotechnology industry in Singapore. We are looking for Senior Scientists with relevant R&D experience, strong leadership qualities and good communication skills, who will be able to initiate and manage research collaborations. Suitable candidates will have the opportunity to participate in new programmes and to co-teach and undertake co-research with faculty from the Massachusetts Institute of Technology (MIT) and the National University of Singapore.

Successful candidates will lead a team of researchers to work in the following areas:

#### Proteomics

The candidate should have a PhD in biochemistry, chemistry or related disciplines. He/She should have an in-depth knowledge of protein chemistry and protein-protein interactions, as well as experience in protein characterization methods such as MALDI-TOF and Tandem MS and be familiar with structural prediction using bioinformatics.

# Mammalian Cell Culture

The candidate should have a PhD in chemical or biochemical engineering or related disciplines and extensive experience in the use of mammalian cells to produce therapeutic glycoproteins and protein stability.

#### Cell/Molecular Biology

The candidate should have a PhD in Ceil/Molecular Biology or related disciplines with experience in the design and construction of vectors for cell line development. He/She should be familiar with developing functional assays to evaluate transgene expression in mammalian cell culture.

An attractive remuneration package will be offered, which will commensurate with qualifications and experience. Applicants should send their detailed curriculum vitae, as well as names and addresses of three referees to:

Bioprocessing Technology Centre The National University of Singapore Clinical Research Centre, 10 Medical Drive Singapore 117597 Fax: (65) 7754933, Email: btcadmin@nus.edu.sg Website: http://www.eng.nus.edu.sg/btc

# **NEW FRONTIERS OF SCIENCE**

#### IN GENOMIC DISCOVERY CAREERS

# Genome Institute of Singapore

Begun in May 2000, the Genome Institute of Singapore (GIS) is one of the flagship programmes in Singapore's US\$2 billion biomedical sciences initiative. The Institute will bring together an international team of biomedical scientists, clinical investigators, and computer scientists to establish a world-class research institute focused on post-sequence, functional genomic questions. Our work will integrate academic and industrial capabilities, employing a broad range of disciplines, which will include both basic and clinical/population-based approaches.

As GIS Executive Director, Edison T. Liu, M.D., formerly the director, Division of Clinical Sciences at the National Cancer Institute, will lead the effort to recruit up to 250 scientists to conduct genomic research in a collaborative environment.

# WHO SHOULD BE INTERESTED

Senior investigator/group leader, research scientist, and technical expert positions are open in the following areas:

# Technology

- · High throughput sequencing
- Clone library construction
- Expression arrays
- SNP discovery
- Proteomics
- Chemistry and instrumentation
- Systems engineering

# Informatics

Bioinformatics

- · Biostatistics
- Software engineering
- Mathematical genetics

# Biology

- · Molecular genetics
- Population genetics
- Molecular/genetic epidemiology
- Molecular pharmacology
- · Pharmacogenetics
- · Cancer cell biology

- Comparative genomics:
- human/mouse/zebrafish
- Mouse and zebrafish genetics and transgenesis
- · Gene expression and transcriptional regulation
- · Metabolic and developmental disorders
- Cellular signal transduction
- Stem cell biology
- Cellular physiology/pathophysiology

These positions will function in a matrix structure based on domain expertise and a project focus. Senior level positions will come with significant resources to accomplish programmatic goals. Salaries are highly competitive and commensurate with the level of expertise and experience. We welcome applications from academia and industry, from senior investigators to those seeking post-doctoral fellowships:

# GIS Sabbatical Programme

Senior investigators from academia wishing to spend 6 months to 1 year for a sabbatical experience are welcome to apply to the GIS Sabbatical Programme. Selected individuals will receive salary, living subsidies, and laboratory resources. Preference will be given to those scientists with skills or projects complementary to the needs of the Institute or to those who can participate in an ongoing GIS programme.

# Singapore Scholar in Genome Biology

Senior post-doctoral fellows in the fields of cell biology, pharmacology, genetics, epidemiology, computer sciences, mathematics/biostatistics, and chemistry interested in refocusing their careers in genomics are eligible for this 3-4 year transition programme. Qualified candidates will explore biomedical applications of genomic technologies in a mentored, semi-independent, and team-intensive environment functioning as a junior investigator.

# WHY SINGAPORE

Singapore, a city-state with one of the highest standards of living in the world, seeks to become an international hub for the biomedical sciences. The Genome Institute has significant long-term resources and administrative flexibility to help accomplish this national goal. Singapore has a highly intelligent and motivated workforce, and a sophisticated scientific and information technology infrastructure. Lastly, Singapore is one of the most globally oriented countries in the world, making it the ideal location for an international genomics research center.

If you are interested in joining a highly talented research team situated in a unique location, please forward a cover letter expressing your interests, your curriculum vitae, and a list of 3 references to one of the following:

# Singapore Headquarters: Edison Liu, M.D.

Executive Director, Genome Institute of Singapore Deputy Director, Genome Institute of Singapore 65-872-7461 gisliue@nus.edu.sg

# Ren Ee Chee, Ph.D.

65-872-7462 micrenec@nus.edu.sg

North American Recruiting Office: Matthews Media Group, Inc. 6101 Executive Blvd., Ste. 300 Rockville, MD 20852 1-877-398-7425



SINGAPORE

# Director, Office of Research and Applications (ORA) (A Senior Executive Service Position in the Federal Government)

# National Environment Satellite, Data and Information Service National Oceanic and Atmosphere Administration, Camp Spring, Maryland \$120,261 - 133,700 annually • NOAA#01-10

The applicant selected for this position will be responsible for: 1) Monitoring and analyzing of existing programs; planning and coordinating new programs; interfacing with other offices of NESDIS and with relevant laboratories in other agencies, universities, and foreign countries; budget preparation and tracking; management of resources (personnel, funds, equipment); and management of the structure and staffing of the office. 2) Responsible for the overall policy direction, administration and management of all research programs within NESDIS. Plans and directs the research effort, develops objectives, establishes priorities and evaluates accomplishments. 3) As Chairperson of the Research and Development Council, coordinates and collaborates with NESDIS for management in determining objectives and goals for the fulfillment of the NESDIS mission. This Council advises and recommends new programs, which should be undertaken, to the NESDIS mission. This Council advises and recommends new programs, which should be undertaken, to the NESDIS mission. This Council advises and recommends new programs, which should be undertaken, to the NESDIS mission. This Council advises and recommends plans for outside contracts and grants. 4) Directs comprehensive research programs aimed at the development of new applications of satelifie derived data and improvement of existing applications and operational programs. Reviews present and future plans for research programs and provides syntheses and programs. 5) Responsible for projecting resources which are required for the development of the next generation of instruments for future systems. Such resources which are required for the development of the next generation of instruments for future systems. Such resources which are required for the development of the next generation of instruments for future systems. Such resources which are required for the development of the highest priority research programs while maintaining adequate support of lesser research programs. 6) Represents

1. Experience in the administration of research and development programs involving the physical sciences and remote sensing from space.

 Expert knowledge of satellite remote sensing devices including demonstrated capability to conceive and execute remote sensing programs.

3. Knowledge of and experience in applications of remotely sensed satellite data and transfer of the knowledge to the user community.

Please contact 301/713-0530, x 106 (301/713-0973 [TDD]) (Internet address: dede.epstein@noaa.gov) for an announcement package including mailing instructions - referring to the announcement number OR - you may access the entire full-text vacancy from NOAA's

Executive Resources Homepage (see below). Incomplete applications will not be considered. http://www.rdc.noaa.gov/-hrmo/er-home.htm This vacancy will close on July 20, 2001 "NOAA Values a Diverse Workforce and is an Equal Opportunity Employed



NOAR

Biozentrum and Medical Faculty of the University of Basel, Switzerland

invite applications for a tenured position of

# **Professor of Neurobiology**

We seek an outstanding individual whose research efforts address questions of vertebrate nervous system development and/or function using genetic and genomic approaches. Generous startup funds as well as substantial permanent funding for postdoctoral fellows, technical staff, and running costs are available. The candidate's research group will be housed in contiguous space in the Biozentrum and provided with state of the art facilities and infrastructure. Ample opportunity is available for interaction with the numerous primary neuroscience groups already established in the Biozentrum/Pharmazentrum as well as with the many other university and hospital research groups. The successful candidate will develop a highly competitive research program and participate in neuro-science teaching for students of Medicine and Biology. The candidate will also be expected to take an active role in the rapidly growing Basel Neuroscience Program (http://www.biozentrum.unibas.ch/neuro/) and the neurobiology focus of the Department of Clinical-Biological Sciences of the Medical Faculty.

Individuals with an established research record are invited to apply. Applications from women are particularly welcome. Applications should include a Curriculum Vitae, a list of publications, a brief summary of present and future research interests and the names of three references. The documents should be sent to the Dean of the Medical Faculty, Kantonsspital, Klingelbergstrasse 23, CH-4031 Basel, Switzerland.

Informal inquiries can be addressed to Urs A. Meyer (Urs-A.Meyer@unibas.ch) or to Markus Ruegg (Markus-A.Ruegg@unibas.ch), Biozentrum, University of Basel, CH-4056 Basel, Switzerland.

Evaluation of application will begin on July 15, 2001.



Otsuka Maryland Research Institute, a progressive, global organization committed to developing innovative drugs for better health worldwide, is currently seeking the following positions:

# RESEARCH ASSOCIATE -CELL AND MOLECULAR BIOLOGY

Applicants are invited for a research associate position in functional genomics. Become a member of our basic research team, focusing on development of target compounds for evaluation as potential pharmaceuticals. The successful candidate will work as a team member to identify the genes related to a certain phenotype and establish animal models.

Potential candidates should have a MS or BS degree in life science plus a few years research experience. Candidates should be familiar with cell culture, immunocytochemistry, flow cytometry and gene cloning. Previous experience with stem cell selection, mouse gene knockout, DNA sequencing and analysis is helpful.

# POSTDOCTORAL RESEARCH SCIENTIST IN STEM/ PROGENITOR CELL BIOLOGY

This position is immediately available in our Maryland Research Laboratories located in Rockville, MD for a person interested in functional genomics.

The potential candidate should have a Ph.D. or equivalent degree plus one or two years postdoctoral training in embryonic stem or progenitor cell biology. Experience in other cell biology or with knockout mice is helpful. The candidate should have publications in peer reviewed journals and can work independently as well as in a team. The successful candidate will be a key member of our team, working on stem cell differentiation, identifying the genes involved in this process, and establishing animal models using knockout. The position is initially open for two years with the possibility of an extension and advancement. Publication in scientific journals is encouraged.

We offer a competitive compensation and benefits package. Please mail, fax or e-mail your resume and salary requirements to: Otsuka America Pharmaceutical Inc., Human Resources Department, 2440 Research Blvd., Rockville, MD 20850. Fax: (301) 212-8647. E-mail: humanresources@otsuka.com. No phone calls, please.

EEO/M/F/D/V. Women and minorities are encouraged to apply.





The best is getting even better! As the world's largest pharmaceutical research enterprise, Pfizer is dedicated to providing the best innovations in medicine while pursuing tomorrow's discoveries in research and development. With an R&D budget of \$4.7 billion, our team has spurred Pfizer's exceptional performance in 30 countries and across 6 continents. If you share our dedication to discovering, developing and delivering medicines to improve the health of both people and animals worldwide, we want yours to be the newest Face of Pfizer. Consider the following opportunities at Pfizer Global Research and Development facilities in La Jolla, California, and Groton, Connecticut.



Life is our life's work.

# challenge innovation teamwork

# The Face of Pfizer

careers that matter

# Biochemist (La Jolla)

To fill our openings at several levels, we are seeking Biochemistry PhD Senior Scientists and/or Research Scientists who will contribute as Lead Biochemists to multidisciplinary project teams aimed at the discovery of novel drugs using combinatorial chemistry and structure-based drug design. The successful PhD candidate must have at least 2 years of postdoctoral experience and an in-depth knowledge of enzyme kinetics, enzyme assay development and enzyme inhibitor characterization; protein purification; and biophysical techniques (Req. #01-0501-5V135CL). We are also seeking Associate Scientists with a BS/MS in Biochemistry, Chemistry or a closely related discipline and 2+ years of industrial experience (Req. #01-0516-5V135BM). Advanced computer skills and research experience with enzyme kinetics and protein characterization are essential for this position.

# **Research Scientist (Groton)**

Applying your extensive knowledge of the preparation and cell biology of primary cultured neurons, you will work toward discovering novel treatments for CNS diseases, including Alzheimer's disease, depression, schizophrenia and Parkinson's disease. This position requires a PhD or equivalent and experience in preparing and characterizing the cell biology of primary cultured neurons. Two or more years postdoctoral experience is highly desirable, as is experience in quantifying the effects of neurotoxic, neurotrophic and psychoactive molecules on primary neurons by biochemical, immunological and morphological means. Req. # 02May0104727

# Embryo Microinjection Technologist (Groton)

Joining a highly productive team of researchers, you will develop genetically modified (GM) mice for global drug discovery programs. Key responsibilities will focus on developing germline-modified *in vivo* models from targeted murine stem (ES) cells and transgenes. Additional responsibilities include genotyping of GM *in vivo* models and colony management. You must have a BS (MS preferred) in Biology or a related discipline. Experience in the delivery of germline-competent genetically modified *in vivo* models by blastocyst injection of ES cells or pronuclear transgene microinjection of murine embryos is required. Req. # 18May0105030

# Embryonic Stem Cell Culture Technologist (Groton)

You will join a team of researchers dedicated to delivering genetically modified *in vivo* models to the Pfizer global drug discovery organization. Responsibilities will focus on murine embryonic stem (ES) cell culture, and duties will include all aspects of ES cell culture, transformation, selection, cryopreservation, clonal expansion and analysis. This position requires a BS in Biology or a related discipline and proven expertise in mammalian cell culture methodology. Experience with ES cell culture, the development of genetically modified *in vivo* models (including genotyping of cells/GM in *in vivo* models), microinjection and basic molecular biology is highly desirable. Req. #18May0105033

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

# OREGON HEALTH SCIENCES UNIVERSITY BIOCHEMISTRY & MOLECULAR BIOLOGY

# Assistant Professor Molecular Enzymology

The Department of Biochemistry and Molecular Biology is seeking an outstanding molecular enzymologist at the Assistant Professor level for a tenure track position. The qualified candidate should have a strong background in enzymology, with an emphasis on using the most modern and innovative approaches (mass spectrometry, novel ligand design, chemical libraries, etc.) to address biologically important questions.

We will offer an attractive start-up package, competitive salary and the opportunity to join an interactive department in a stimulating scientific environment set in one of the most desirable areas in the country. Faculty are expected to establish competitive research programs and assist in graduate and medical school teaching. Candidates with a Ph.D. and several years of postdoctoral experience should apply by sending a copy of their curriculum vitae, a description of research plans and interests and the names of three references to:

Professor Jack H. Kaplan, Ph.D., F.R.S. Department of Biochemistry and Molecular Biology Oregon Health Sciences University 3181 S.W. Sam Jackson Park Road L224 Portland, OR 97201-3098 http://www.ohsu.edu/som-biochem

OHSU is an Affirmative Action/Equal Opportunity Employer





# Pherin Pharmaceuticals, Inc. is an innovative drug discovery company with a world-leading proprietary position and cutting-edge technology. Its novel vomeropherin-based therapies treat various disorders of the CNS/neuroendocrine system. (Please visit our web page: www.pherin.com)

The Company is seeking an outstanding research scientist to play a significant role in the cloning, expression and characterization of novel target receptors. This position will be part of the molecular biology department that is concerned with cloning, expression of human vomeronasal receptors, assay development and screening compound library. Primary responsibilities will include playing a key role in the identification and cloning of human receptors in various vectors and optimizing expression vectors.

A strong background in experimental design and data interpretation is required, as are current knowledge of relevant scientific literature and emerging molecular biological techniques. The individual will be a member of a multidisciplinary project team and is expected to work independently, as well as to supervise other team members.

## Job Qualifications

- MS/PhD with relevant industry/postdoctoral experience and proven productivity.
- Extensive experience with basic molecular biological techniques, cDNA cloning and analysis, genomics, and receptor isolation and characterization, as well as relevant computer skills and mammalian cell tissue culture experience.
- Excellent communication skills both verbal and written.
- Experience in GPCR biology and drug discovery is a plus.

Please send your resume to:

Pherin Pharmaceuticals, Inc. 350 N. Bernardo Avenue Mountain View, CA 94043 email: HR@pherin.com

We are an equal opportunity employer.



## Nebraska Center for Virology University of Nebraska Assistant/Associate Professor Position in Virology

Our newly established NIH-funded Center invites applications for tenure track and/or tenured faculty. We offer state-of-the-art core facilities in microscopy, bioinformatics, structural biology, and a research-intensive environment dedicated to understanding basic mechanisms of viral pathogenesis, immunity, evolution, host interactions and replication.

Candidates must have an established research program or show exceptional promise toward establishing a research program in one of the following: *Viral Immunology, Vaccine Development, Pathogenesis, Host Cell Interactions, Evolution, Informatics, or Protein Structure/Function.* Requirements include a PhD and/or MD, relevant postdoctoral research experience and an externally funded research program or demonstrated research abilities. Faculty is expected to develop an active, extramurally funded research program and be involved in undergraduate and graduate student teaching. Excellent opportunities for collaboration within the Center and with other University departments.

# Postdoctoral and Predoctoral Fellowships Available

Postdoctoral fellowships in virology are awarded to candidates dedicated to virology research with a track record of research accomplishments. Motivated **Postdoctoral** candidates with a PhD and or MD in microbiology or a related field and **Predoctoral** students with an interest in virology are encouraged to apply. Training preceptors include: Clinton Jones, PhD - Herpesvirus Latency; Jim Van Etten, PhD - Chlorella Virus; Robert Weldon, Jr., PhD - Retrovirus Assembly; Charles Wood, PhD - HIV and Kaposi's Sarcoma-Associated Herpesvirus Pathogenesis.

Review begins August 31, 2001. Faculty position open until suitable candidate is found. Submit CV, description of research interests and names of 3 references to: Dr. Charles Wood, Director, Nebraska Center for Virology, School of Bio. Sciences, UNL, E249 Beadle, Lincoln, NE 68588-0666. Ph: (402)472-4550; Fax: (402)472-8722; cwood1@unl.edu. Website http://bims.unmc.edu/Virology/.

The University of Nebraska is committed to a pluralistic campus community through affirmative action and equal opportunity and is responsive to the needs of dual career couples. We assure reasonable accommodation under the Americans with Disabilities Act. Contact Jolene Walker (402) 472-4560 for assistance. <u>ے اخاب آ</u> حکار کے ا

# TO THE EDGE

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

# **ASSOCIATE DIRECTOR, A&I GENOMICS**

Based in St. Louis, this individual will be the Genomics liaison for the Arthritis and Inflammation Pharmacology teams in St. Louis and Skokie. This will involve determining and executing the goals and milestones for the A&I Genomics teams with respect to current and projected project needs and facilitating the process by which new drug discovery targets are discovered jointly among the Genomics, Biotechnology and A&I teams. The individual is expected to work at or close to the bench, acting as an interactive force in driving the day-today science. We are seeking a proven scientist as evidenced by a substantial number of high-quality, peer-reviewed publications and demonstrated expertise in multiple fields of inflammatory disorders or therapies. This position will require fluency in genomics and genetics methodologies and their application to target identification and validation in the discovery research environment. Leadership qualities include good interpersonal skills with team members, peers and senior management. A strong drive to actively contribute to science and solve problems will also be necessary. As a valued member of the St. Louis Genomics community and the Global Genomics Leadership Team, this individual will also be responsible for driving the integration of molecular science (to include tools and technologies) into a productive matrix with the pharmacology teams at Pharmacia. This integration is key to our leadership and competitiveness in the industry and is a key performance factor for the success of this individual, the project teams and the company. Ad Code #01-2527-Science 6/22. Respond to: http://respond.webhire.com/job/id?479-r2527-J1

# **BIOMARKER SCIENTISTS**

Working at our Skokie location, the selected candidates will join an emerging cross-functional unit in pharmacogenetics and biomarker development. This unit is based in the worldwide Genomics organization and is dedicated to the design and application of genetic and biochemical markers for exploratory and proof-ofconcept studies in man. This unit will be comprised of lead PhD scientists in molecular biology and biochemistry and additional MD or MD/PhD scientists who will lead our pharmacogenetics, human genetics, and genomics technology laboratories. Applicants for these positions will have responsibility for staffing support personnel and developing technological competencies. Excellent opportunities exist for long-term growth of these laboratories and competencies based on performance and demonstrated utility in the application of biomarkers in clinical studies in Pharmacia's priority therapeutic areas (i.e., arthritis/inflammation, cardiovascular/metabolic diseases, CNS disorders, oncology, and infectious diseases). Previous work in biomarker design in the pharmaceutical industry is highly desired, but not a prerequisite. Ad Code #01-2732-Science 6/22. Respond to: http://respond.webhire.com/job/id?479-r2732-J1

Curious? Discover your potential with Pharmacia. Our workplace is one of open communication, teamwork and respect. We offer generous compensation and benefits, performance rewards, and entrepreneurial opportunities for personal and career development. You may submit a resume by our preferred method of response using the appropriate URL listed above. Or fax your resume, indicating the appropriate Ad Code #, to 520-287-0963. As an EEO/AA employer, Pharmacia Corporation values a diverse combination of ideas, perspectives and cultures. For more information and other opportunities, please visit our website at www.pharmacia.com.



# Dunedin, New Zealand Chair in Genetics

| OTÁGO |  |
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Applications are invited for appointment to a newly established Chair in Genetics at the University of Otago. Applicants should have an internationally recognised reputation in research and a well-

established record in teaching and academic leadership. The University offers a comprehensive undergraduate programme in genetics, supported by strong fundamental sciences, and has a well-established reputation in postgraduate training and research with degrees offered at both Masters and PhD level. Currently research supported by modern facilities and equipment is carried out in most key areas in genetics. The recent introduction of additional undergraduate courses in genetics has resulted in the establishment of an honours degree with a major in genetics. The Genetics Programme is administered by a Board of Studies with membership coming initially from the contributing Departments of Biochemistry, Botany, Microbiology, Pathology and Zoology. The successful applicant will become the Director of the Genetics Programme and will play a major leadership role in fostering and co-ordinating both teaching and research. The appointee will be based within an appropriate host department, to be negotiated in accordance with the background, expertise and research focus of the successful applicant.

Further details regarding this position, can be obtained by contacting Professor David Jones, Dean, Otago School of Medical Sciences, Tel 64 3 479 5134, Fax 64 3 479 5200, Email david.jones@stonebow.otago.ac.nz Reference Number: AY01/231SC. Closing Date: Friday 20 July 2001. **APPLICATION INFORMATION** 



For application information and a full job description go to: www.otago.ac.nz/jobs Alternatively, contact the Human Resources Division, Tel 64 3 479 8269, Fax 64 3 474 1607, Email carla.love@stonebow.otago.ac.nz

Equal opportunity in employment is University policy.

www.otago.ac.nz/jobs

# FACULTY OPPORTUNITIES

The University of Texas M. D. Anderson Cancer Center, ranked the #1 cancer center and nominated in four other categories by U.S. News & World Report, is the world's largest treatment facility for oncological diseases. Located within the Texas Medical Center campus in Houston, our location provides access to a world renowned medical community and the splendid cultural and recreational diversity of a sophisticated, metropolitan area that is the country's fourth largest city.

Opportunities available in the following:

- Biochemistry & Molecular Biology · Immunology Molecular Genetics
- Biomathematics
- · Cancer Biology
- · Molecular & Cellular Oncology
- Carcinogenesis Experimental Therapeutics
- Molecular Therapeutics Veterinary Medicine & Surgery

The University of Texas M. D. Anderson Cancer Center provides competitive salaries and generous benefits. Interested candidates are invited to send a copy of their CV and a letter describing their clinical and academic interests to: Faculty Academic Affairs Recruitment, 1515 Holcombe Blvd., Box 201, Houston, TX 77030; or e-mail: facultyrecruitment@mdanderson.org. For additional information, please call 1-866-668-1638.



The University of Texas M. D. Anderson Cancer Center values diversity in its broadest sense. Diversity works at M. D. Anderson. EEO/AA Smoke-free environment



# PLANT SCIENCE CENTER

The Danforth Center announces positions for faculty at Full, Associate and Assistant Member levels to direct fundamental research programs. Seeking scientists with broad interests/training in at least two scientific disciplines and well formed research programs that will benefit from interactions with scientists of other disciplines. Demonstration of prior/current support and of interdisciplinary research beneficial. Up to 10 faculty appointments will be considered in structural biology, biochemistry, phytochemistry/nutriceuticals, cell biology, gene regulation, root-soil interactions, molecular plant pathology, physiology, and abiotic stress biology. Successful candidates are expected to develop collaborative research programs within the Danforth Center and/or with scientists at partner institutions. Visit our website, www.danforthcenter.org, for more information about the Danforth Center.

Send a curriculum vitae, reprints and four letters of reference to: Ms. Billie Broeker, Human Resources, Donald Danforth Plant Science Center, 7425 Forsyth Boulevard, Campus Box 1098, St. Louis, MO 63105.

The Donald Danforth Plant Science Center is an equal opportunity/affirmative action employer and encourages applications from underrepresented groups, including minorities, women and people with disabilities.



The Department of Animal and Nutritional Sciences in the College of Life Sciences and Agriculture at the University of New Hampshire (UNH) invites applications for an academic year, tenure-track ASSISTANT PROFESSOR position in the area of Biomedical Science starting November 1, 2001. The successful candidate will be expected to teach in the Medical Laboratory Science Program at the undergraduate and graduate level to include, but not limited to, courses in clinical chemistry and toxicology. The candidate should have research expertise that utilizes contemporary approaches to investigate clinical chemistry and toxicology while complementing existing UNH strengths, which include adipocyte physiology, cancer biology, vascular or reproductive physiology, and nutritional biochemistry. A doctoral degree in an appropriate discipline and post-doctoral experience are required. The successful candidate must have a strong commitment to excellence in teaching, and is expected to establish an independent research program that actively involves graduate (Ph.D. and M.S.) and undergraduate students.

Candidates should send a current curriculum vita, a statement of teaching experience and philosophy, a description of research interests (including accomplishments and future directions), and names, addresses, phone and email contact information for at least three references to:

## **Biomedical Science Search Committee Chair** Dept. of Animal and Nutritional Sciences Kendall Hall, UNH, Durham, NH 03824. FAX: 603-862-3758.

Review of applications will begin in July and will continue until the position is filled.

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

# NINDS - at the Cutting Edge of Neuroscience

NINDS seeks bold, visionary scientists and physicians with a broad knowledge of neuroscience. As a Program Director, you will conceive and develop large-scale funding initiatives, organize workshops, and interact with leading neuroscientists throughout the world. Successful candidates will join a highly interactive group of scientists and clinicians directing cutting-edge research programs in all areas of modern neuroscience.

Areas of current interest include: Human Cognition and Behavior; Neural Imaging; Cognitive Neuroscience - Human Neuropsychological Assessment; Neural circuit research at the system level; Channel and / or Synaptic Research (preferably at the molecular and / or signal level); Human Neurogenetics; Genomics; Developmental Genetics; Stroke and Vascular Biology.

Applicants should have a Ph.D. and / or M.D. in a relevant field of biomedical or behavioral science and a research track record. For more information, the full announcements can be obtained from the NINDS web site at the individual vacancy announcement links or addresses shown below or by fax (call telephone 1-800-728-5627 and request the fax identification number listed below). U.S. citizenship is required for these positions as part of the General Schedule permanent appointment mechanism. Permanent U.S. residents may apply for consideration under temporary appointments.

Submit a letter of career interests with your curriculum vitae, bibliography, and, importantly, your response to our Selective Factors and KSAs (knowledge, skills, and abilities as described in the full announcement) to: Mr. Luis Arvelo, National Institutes of Health, NINDS Human Resources Branch, Building 31, Room 8A23, 31 Center Drive, MSC 2540, Bethesda, MD 20892-2540, or you may fax your application to (301) 480-0383.

Applicants are strongly encouraged to obtain information concerning application content and procedures by contacting Mr. Arvelo at (301) 435-6033 or by email at la45j@nih.gov.

For information on qualification requirements and clarification of duties, contact Dr. Constance W. Atwell at (301) 496-9248 or e-mail her at ca23c@nih.gov

This position may be filled with career appointments or various temporary appointment mechanisms (minimum of 2 years). The normal salary range for these positions is \$53,156 to \$99,391; actual salary will be commensurate with experience. Recruitment bonus and relocation allowance may be paid. In addition, physicians may be eligible for a Physician's Comparability Allowance.

Applications must be postmarked by the receipt deadline shown below. Please refer to one or more applicable vacancy announcement from those listed below:

| Specialty & website link to full announcement   | Announcement  | Request FAX ID No. | Receipt Deadline No. |
|---|---------------|--------------------|----------------------|
| Neural circuit research at the system level.<br>http://careerhere.nih.gov/CHPublic/HRSho<br>wVac.taf?&VACANCY_uid1=8024   | NINDS-01-0454 | 5026               | July 13, 2001        |
| Human Neurogenetics;<br>Genomics; Developmental Genetics.<br><u>http://careerhere.nih.gov/CHPublic/HRSho</u><br>wVac.tat?&VACANCY_uid1=8026   | NINDS-01-0455 | 5027               | July 13, 2001        |
| Human Cognition and Behavior;<br>Cognitive Neuroscience – Human<br>Neuropsychological Assessment;<br>Neuroimaging.<br>http://careerhere.nih.gov/CHPublic/HRSho<br>wVac.tal?&VACANCY_uid1=8039 | NINDS-01-0458 | 5028               | July 13, 2001        |
| Stroke and / or Vascular Biology.<br>http://careerhere.nih.gov/CHPublic/HRSho<br>wVac.taf?&VACANCY_uid1=8115  | NINDS-01-0459 | 5002               | July 13, 2001        |
| Channel and / or Synaptic Research<br>(preferably at the molecular and / or signal<br>transduction level).<br>https://careerhere.nih.gov/CHPublic/HRSh<br>owVac.taf?&VACANCY_uid1=8134        | NINDS-01-0460 | 5003               | July 13, 2001        |

DISORDERS AND STROKE

and individuals with disabilities

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# MAYO CLINIC CO-DIRECTOR CYTOGENETICS LABORATORY

The Mayo Clinic, Department of Laboratory Medicine and Pathology, is seeking a fourth co-director of the Cytogenetics Laboratory in the Division of Laboratory Genetics. The candidate should hold an M.D. or Ph.D. degree. Board eligible or board certified by the American Board of Medical Genetics is required. Responsibilities include interpretation, reporting, and consulting of a wide spectrum of cytogenetic and molecular cytogenetic tests for the diagnosis and characterization of congenital disorders, prenatal testing, hematological malignancies and solid tumors. Other duties include teaching and mentorship in an ACMG-accredited training program, joint supervision and scientific oversight of an active development team of technologists. An opportunity to do research is available, if desired.

Mayo Foundation is a non-profit physician led clinical practice integrated with education and research in a unified multi-campus system. Professional rank and salary will be commensurate with experience. Applications should be received prior to September 1, 2001. Curriculum vitae, a cover letter detailing experience, future interests, and names of three individuals who can provide letters of recommendation should be sent to:

> Gordon W. Dewald, Ph.D. Chair, Division of Laboratory Genetics Mayo Clinic 200 First Street SW Rochester, MN 55905 Fax: 507-284-0043, E-mail: gdewald@mayo.edu

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

# CHAIR DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

Applications and nominations are invited for the position of CHAIR of the Department of Biochemistry and Molecular Biology at the University of North Dakota School of Medicine and Health Sciences. We seek an outstanding biomedical scientist with excellent extramural research support who can provide effective leadership and mentoring in research, teaching and service. The Department currently has six faculty members and the new chair will have the opportunity to immediately recruit faculty for two new positions. The Chair will oversee a department actively carrying out research in signal transduction, membrane transporter regulation, drug resistance mechanisms in human pathogens, molecular biology of SV40, enzyme and metabolic regulation, and protein/protein interactions. The Department offers M.S., Ph.D. and M.D./Ph.D. degrees. Faculty members participate in traditional graduate education and a new medical school curriculum that emphasizes patientcentered learning. Undergraduate courses are provided to pre-med and allied health students as well as other non-majors. Further information about the Department is available at: http://www.med.und.edu/bimd/biochem.html

The University of North Dakota is committed to doubling its research funding and achieving the Carnegie classification of "Doctoral/Research Universities – Extensive" by 2006. The University is located in Grand Forks and currently enrolls 11,000 students. Grand Forks is a family-friendly community located in a region offering excellent and rapidly expanding cultural, recreational, and sporting activities. To learn more about the University of North Dakota and Grand Forks visit: http://www.und.edu and http://www.grandforksgov.com.

Review of applications will begin immediately, and the search will remain open until the position is filled. Applicants should submit a detailed curriculum vitae that includes a history of research funding, statements addressing administrative philosophy and teaching interests, and the names and addresses of three references to: Dr. Edward C. Carlson, Professor and Chair of the Department of Anatomy and Cell Biology and Chair of the Search Committee, c/o Office of the Dean, School of Medicine and Health Sciences, University of North Dakota, Box 9037, Grand Forks, North Dakota, 58202-9037.

> The University of North Dakota is an Equal Opportunity/ Affirmative Action institution



Inc. an international healthcare company located in West Caldwell, NJ seeks exceptional individuals as we prepare for a bright future!

Currently, we have the following challenging opportunities in Genomics Technology:

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multi-disciplinary engineering & life science projects

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 MOLECULAR BIOLOGISTS PhD, MS, BS

We offer a competitive starting salary, a comprehensive benefits package that includes 401(k), and a friendly work environment. Candidates should submit a letter of application and curriculum vitae along with three references to: Human Resources, Alfa Wassermann, Inc. 4 Henderson Drive, West Caldwell, NJ 07006. Fax 973-882-3093 or email to ctomko@alfawassermannus.com



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Dendreon Corporation is a public biotechnology company dedicated to the discovery and development of novel products for the treatment of cancer through its innovative manipulation of the immune system. We are currently recruiting for several scientific positions.

# **Scientist-Process Sciences**

This position will be engaged in the development of assays to characterize manufacturing processes and immune cell products for treatment of cancer and infectious diseases. He/she would also be responsible for the development of inprocess and final product release tests including identity, potency and functional assays for dendritic cell and cytotoxic T cell products. Qualified applicants should have a Ph.D or equivalent with 2-5 years of experience in immunology and/or cell biology. Knowledge in flow cytometry is essential and prior exposure to QC method development desirable.

# **Scientist-Protein Purification**

This individual would participate in the development of purification process suitable for large-scale manufacture of proteins. Responsibilities include developing purification processes, characterizing proteins produced, and generating the necessary documentation for cGMP compliance. Candidates should have a Ph.D. degree in Biochemistry or related scientific discipline with 0-3 years post-doctoral experience. This position requires prior experience in protein purification and characterization including an understanding of the requirements for clinical manufacturing.

Please visit our website for further information on each of the positions. We offer a competitive salary and benefits package, including bonus, matching 401(k) and stock options. Please send resumes to HR Mgr. FAX: 206-256-0571 or email to hr@dendreon.com.

www.dendreon.com



**OSI** Pharmaceuticals **Tarrytown**, NY

# **New Opportunities... in Drug Discovery**

Located in the beautiful Hudson River Valley in Tarrytown, New York, the New Opportunities Research Group has ongoing drug discovery programs in Respiratory and Opthalmic Diseases and will soon be expanding its therapy area interests. Talented, enthusiastic researchers at all levels (Ph.D., M.S. and B.S.) with a background in drug discovery are encouraged to apply. Specific experience in developing enzyme or G protein-coupled receptor-based assays is preferred. Ph.D applicants with program leadership experience in the pharmaceutical industry are sought.

# PharmacologyBiochemistry

Cell Biology

OSI Pharmaceuticals offers a superb benefits package including 3 weeks vacation, stock options, 401(K) and opportunities for career development. Qualified candidates please send your resumes to:

OSI Pharmaceuticals at Tarrytown Human Resources 777 Old Saw Mill River Road Tarrytown, NY 10591 Fax: (914) 345-3565 E-mail: employment@osip.com (Place the word NORG in the subject)

Equal Opportunity Employer M/F/D/V.



# CARDIOVASCULAR RESEARCHERS IN GENOMICS/PROTEONICS

Applications are invited for research staff positions as independent investigators in the Montreal Heart Institute Research Center. A physical expansion will create space for several new laboratories, that will complement and interact with ongoing research programs in cardiovascular electrophysiology and biophysics, vascular biology, and myocardial failure and remodelling. Candidates should have PhD and/or extensive post-doctoral training in laboratories addressing the genetic and/or proteonic basis of cardiovascular function and disease. Full start-off funding is available, as well as support for ongoing research programs. Appropriate candidates may be eligible for Canada Research chairs that provide significant financial support and a university commitment to a tenuretrack position. If you are interested in this opportunity, please send your resume and three letters of reference, by August 20, 2001, to: Dr. Stanley Nattel, Director, Research Center, Montreal Heart Institute, 5000 Bélanger Street East, Montreal, Quebec, Canada H1T 1C8. Fax: (514) 593-2521. Email: mcecyre@ icm.mhi. org.

**Please consult our website at www.icmmhi.org.** We are an Equal Opportunity Employer. NATIONAL CANCER INSTITUTE DIVISION OF CANCER TREATMENT AND DIAGNOSIS TECHNOLOGY DEVELOPMENT BRANCH Opening Date: 6-18-01 / Closing Date: 8-17-01 Announcement Number: NCI-01-2318 Extramural Science Administrator (Interdisciplinary) GS-401/403/601/602/858/1320-13/14



The Technology Development Branch of the Cancer Diagnosis Program (CDP) is accepting applications for a Program Director for Bioengineering and Device Development. This position is an administrative position in an exciting and expanding program responsible for supporting research that is translating advances in cancer biology and new technologies into clinically useful diagnostic and predictive tests and devices. The successful candidate will be responsible for evaluating and directing an area of research focused on adaptation of new technologies for clinical application through development of new devices, technology platforms and tools for molecular analysis. Successful performance is critically dependent on a substantial level of scientific knowledge in the areas of bioengineering, biophysics, nanotechnologies, microfluidics, device development, molecular analysis technologies, bioinformitics and/or related disciplines. The successful candidate will evaluate research needs and develop programs to stimulate increased research efforts in the broad scientific area outlined above.

Salary - Ranges from \$63,211 to \$97,108 per annum. Physicians may be eligible for an added allowance of up to \$30,000 per annum. Benefits include health and life insurance options, retirement, paid holidays, vacation and sick leave. U.S. citizenship is required. In order to validate your qualifications, it is necessary to describe your proficiency in the following knowledge, skills, and/or abilities (KSAs): 1) Knowledge required to manage a research program aimed at development of new technologies, tools or devices for cancer diagnosis, including knowledge of bioengineering, biophysics, nanotechnologies and/or microfluidics; 2) Ability to plan, develop, and implement research grant and contract programs, including the formulation of program objectives, goals and initiatives; and 3) Ability to establish and maintain professional relationships with scientists in academia, industry and Government.

To obtain the mandatory requirements and other necessary application information, please visit: http://careerhere.nih.gov, vacancy announcement, NCI-01-2318. You may also call (301) 594-2953 to request a fax copy of the vacancy announcement, (Fax ID: 1892).



Send application to: NIH/NCI/HRMCB, Executive Plaza South, Suite 519, 6120 Executive Blvd., MSC 7209, Rockville, MD 20852-7209, by the closing date of8-17-01. For more information, contact James W. Jacobson, Ph.D., at (301) 402-4185. NIH/NCI is an Equal Opportunity Employer



# **Faculty of Medicine**

The University of Ottawa is Canada's largest bilingual institution of higher learning and research. The Faculty of Medicine, one of Canada's 5 most research intensive faculties with over 80 million \$Cnd research funding annually, seeks dynamic academic leaders as Chairs of its Departments of Biochemistry, Microbiology & Immunology and Cellular and Molecular Medicine. Exceptional candidates (or their associates) would be considered for a Canada Research Chair within one of the University's strategic areas of research development (for additional information please visit www.uottawa.ca/research).

The successful candidates will have demonstrated track records of academic and research excellence with appropriate administrative abilities to promote innovation within their respective Departments and throughout the Faculty, including several hospital based research institutes (Ottawa Health Research Institute, Ottawa Heart Institute and the Children's Hospital of Eastern Ontario Research Institute).

Proficiency in both official languages (English and French) is desired. Appointment in the Faculty of Medicine will be made at the appropriate academic rank.

# Chair

# Biochemistry, Microbiology & Immunology

The Department of Biochemistry, Microbiology & Immunology comprises 90 full-time and cross-appointed scientists. The Department administers the largest graduate studies program in the Faculty of Medicine and is also responsible for delivering a bilingual undergraduate biochemistry program in the Faculty of Science.

The successful candidate will have a PhD or equivalent degree in a related discipline and be recognized as a leading research scientist in one of the three fields of investigation developed within the Department: receptor biology, microbial and host resistance or structural biology.

Interested individuals are requested to submit a *curriculum vitae* and the names of three referees not later than September 15, 2001 to:

Dr. Ken Dimock (kdimock@uottawa.ca), Secretary, Selection Committee, Faculty of Medicine, University of Ottawa, 451 Smyth Road, Ottawa (Ontario), K1H 8M5. Chair Cellular and Molecular Medicine

The Department comprises 80 full-time and cross-appointed scientists with strong linkages to key hospital based research institutes in the city. The current graduate and postdoctoral studies enrolment of the Department is 90 students.

Candidates should have a strong record of achievement and innovation in research in the disciplines of cellular and molecular biology or integrative biology. Current areas of research strengths include growth and development, renal physiology, neuroscience and skeletal muscle biology.

Interested individuals are requested to submit a *curriculum vitae* and the names of three referees not later than September 15, 2001 to:

Dr. David J. Parry (dparry@uottawa.ca), Secretary, Selection Committee, Faculty of Medicine, University of Ottawa, 451 Smyth Road, Ottawa (Ontario), K1H 8M5.

# FACULTY POSITION

# THE CENTER FOR COMPARATIVE MEDICINE & THE DIVISION OF INFECTIOUS DISEASES

# University of California, Davis

Qualified candidates are invited to apply for a position at the level of ASSIS-TANT PROFESSOR or ASSOCIATE PROFESSOR, depending upon qualifications of the applicant. Applicants should have M.D., or M.D./Ph.D. degrees and be board eligible in Infectious Diseases, with postdoctoral experience, a record of publication in mainstream journals, and enthusiasm for the concepts of comparative medicine and investigation of human infectious diseases in animal models. Faculty are sought whose research encompasses a variety of disciplines involving mechanisms of host-agent interactions during persistent infections, mechanisms of oncogenesis by infectious agents, and/or development of preventive or interventive strategies for persistent infections. Candidates will be expected to establish and maintain extramurally funded research programs and to participate in the teaching of medical students, residents, and graduate students. Faculty members will hold an academic appointment in the Division of Infectious Diseases within the School of Medicine. The Center for Comparative Medicine is a newly constructed and equipped research center that interdigitates with other campus-wide research programs in the School of Medicine, School of Veterinary Medicine, College of Agriculture. Division of Biological Sciences. California Regional Primate Research Center, Cancer Center, Center for Vector-borne Disease Research, Center for Neurosciences, Center for Genomics, and Mouse Biology Program. This is a tenure-track position in which generous start-up funding, long-term state sponsored 0.5 base salary support and ample laboratory space is provided. Review of applications will commence immediately and be accepted through September, 2001, or until the position is filled. Submit applications with letter of interest, curriculum vitae, concise statement of present and future research plans, summary of teaching experience/philosophy, up to 3 representative reprints, and four references (including addresses, telephone numbers and e-mail addresses) to: Recruitment Committee Chair, c/o Center for Comparative Medicine, University of California, Davis, CA 95616.

The University of California is an Equal Opportunity Affirmative Action Employer. <u>M</u> S 2 S M

# POSTDOCTORAL POSITIONS

# Molecular Analysis of Hematopoietic and Vascular Stem Cells

MOUNT SINAI SCHOOL OF MEDICINE

Two fully funded postdoctoral positions are

available to study molecules involved in activation of hematopoiesis and vasculogenesis in the mouse embryo and their relationship to the corresponding adult processes. The work will focus on inductive interactions, signaling pathways and transcription factors involved in the formation of hematopoietic/vascular endothelial stem and progenitor cells and will make use of a novel explant culture system developed in this lab (see Develop. 125:5009, 1998 and Dyer et al., Develop., in press), embryonic stem (ES) and transgenic and knockout mouse strategies.

A strong background in molecular or developmental biology is required. Preference will be given to applicants who seek their first postdoctoral position. Please send curriculum vitae, summary of research accomplishments and the names of three references to: Margaret H. Baron, MD, PhD, Departments of Medicine, Biochemistry and Molecular Biology, Mount Sinai School of Medicine, Box 1079, 1425 Madison Avenue, 11-70B, New York, NY 10029-6574. Fax: 212-849-2442. E-mail: margaret.baron@mssm.edu. EOE.



Leading the Way for a Healthier World

At **Wyeth**, a division of Fortune 500 American Home Products Corporation, we have set ourselves apart from the others in the pharmaceutical industry by discovering and developing exceptional pharmaceutical, vaccine and nutritional products. Our strong name becomes even stronger when linked to our outstanding over-the-counter products such as Advil®, Robitussin®, Dimetapp®, Chap Stick®, Anbesol® and more. Our superior research, manufacturing, sales and marketing are the result of the effort of our employees united in a shared vision – leading the way for a healthier world.We currently have openings at our **Marietta**, **PA facility**.

- Audits & Compliance: Manager
- Biological Development: Principal Research Scientist, Project Manager
- Program Manager
- Quality Assurance/Quality Control: Biochemical Specialist, Investigations Compliance Manager/Group Manager/Sr. Compliance Manager, Release Manager, Chemistry Manager, and Product Specialist
- Team Leader

The collective skills of 40,000 of the world's top talent keep us on the cutting edge. We care for our people by offering rich avenues for advancement, challenging opportunities, generous compensation, stock options, childcare subsidies, educational assistance, flexible schedules, and other great benefits. Please forward your resume with salary requirements to: Wyeth Pharmaceuticals, 206 N. Biddle Street, P.O. Box 304, Marietta, PA 17547. Fax: 717-426-6676. E-mail: wamarhr@labs.wyeth.com No phone calls. Principals only. An Equal Opportunity Employer M/F/D/V





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# Infinite Discoveries Unparalleled Opportunities

We are looking for several individuals to join our team applying molecular and cell biology approaches to the discovery of new medicines to treat disorders of the cardiovascular system.

# Staff Scientist

BS/MS or equivalent in Biochemistry/Cell Biology or a related field and 3+ years of relevant research experience. The candidate must be competent in a variety of biochemical, molecular biology, and cellular biology techniques, including DNA and RNA isolation. Northern and Western blot analyses, ELISA, PCR, tissue culture, subcloning and transfection. The scientist will be working on target validation for heart failure. Job responsibilities include the establishment and running of various molecular and biochemical assays, isolation and culturing of primary cardiac myocytes, and data analysis. The candidate must be computer proficient and have good communication skills. Code: 103HS/SCM/AMS



# **Postdoctoral Fellow**

The successful candidate should have a Ph.D. degree in Biochemistry/Cell Biology or a related field. Training and knowledge in cardiac biology and/or signal transduction is advantageous. The candidate will join our heart failure team to study signal transduction and extracellular matrix remodeling in heart failure. This position will allow an opportunity to interact with a multidisciplinary team of experts that provides the candidate an environment for pursuing a future career in the pharmaceutical industry. Code: 151HS/SCM/AMS

Our commitment to our employees includes an excellent salary and a comprehensive benefits package. To apply, please forward your cover letter and resume to: **DuPontpharma@hiresystems.com** or **DuPont Pharmaceuticals Company, P.O. Box 549262, Suite 278, Waltham, MA 02453.** Both positions are located in Wilmington, DE. To be considered for an open position, include the job code. EOE.

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DONALD DANFORTH PLANT SCIENCE CENTER

# Structural Biology and Biochemistry

The Donald Danforth Plant Science Center is soliciting applications for an Xray crystallographer to join a multi-disciplinary group of researchers in studies of plant biology. Preference will be given to candidates at the Assistant and Associate levels. Areas of interest include biochemistry, metabolic pathways, and structural genomics. Emphasis is placed on interdisciplinary research and a strong willingness to tackle cutting edge problems. See www.danforthcenter.org for more information. Send CV, four letters of reference, and statement of research interests to:

Ms. Billie Broeker Human Resources Donald Danforth Plant Science Center 7425 Forsyth Boulevard, Box 1098 St. Louis, Missouri 63105 bcbroeker@danforthcenter.org

# **DuPont Pharmaceuticals Company**

# THE UNIVERSITY OF NORTH CAROLINA

Research Compliance Officer (RCO): The University of North Carolina at

Greensboro (UNCG) seeks an administrative coordinator to oversee the University's compliance with federal and state regulations and policies on human subjects, animal care and use, biohazards, radiation safety, scientific misconduct, and conflicts of interest. This position reports to the Associate Provost for Research.

The RCO will serve as a consultant and resource specialist to faculty, staff, and students whose activities interface with University compliance committees, including the Institutional Review Board, the Animal Care and Use Committee, Biosafety Committee, and the Radiation Safety Committee; the RCO will serve in an *ex officio* capacity to all four committees. The RCO will also promote the development of training and workshop opportunities at UNCG, maintain a web page with compliance information, and monitor and analyze emerging federal and state regulations in these and other areas.

The Officer is expected to demonstrate knowledge in compliance issues and familiarity with the ethical and legal bases for assurance. Proven abilities in database management and interaction with a broad spectrum of constituencies, including regulatory agencies, are additional attributes sought in candidates. Identifying candidates who are especially familiar with compliance issues regarding human subjects is a high priority in this search; the demonstration of experience in or potential to gain mastery of compliance issues in animal use, biosafety, and radioisotopes is also expected.

UNCG is an emerging research institution with doctoral programs in diverse areas. External funding for grants and contracts during the past year reached a University record of \$33 million, including \$24.7 million in federal funds. Visit UNCG on the web at **www.uncg.edu** for more information.

To apply, send a cover letter stating your interest and your fit for this position, a resume or curriculum vitae, and the names, addresses and phone numbers of three references. Send all materials to: **Compliance Officer Search**, **The Provost's Office, The University of North Carolina at Greensboro, P.O. Box 26170, Greensboro, NC 27402-6170.** Application review will begin 1 July 2001, and the search will close when an acceptable candidate accepts the position. *EEO/AA: W/M/V/D.* 

# medicine

seeks a **News & Views Editor** to join its full-time editorial group in New York City.

This position offers an exciting and challenging opportunity to enter the world of scientific publishing while remaining at the forefront of research.

The News & Views Editor candidate will be required to have completed a PhD in any field of biomedical research, and have a sense of literacy, a lively and broad interest in science, excellent sub-editing skills and a personable and professional manner. The main responsibility will be to manage the journal's News & Views section, including the commissioning and editing of News & Views. The successful candidate will therefore be aware of the need to combine newsworthiness, exciting science and good writing. Working closely within a small group of editors, the Assistant Editor for News & Views will also contribute to other areas of the journal (including News, Commentaries, Book Reviews, Reviews and Special Projects), and will represent the journal at scientific meetings.

Please submit a curriculum vitae, a concise cover letter indicating for which position you are applying for and explaining your interest in the post, and a 600-word News & Views style article on an exciting and newsworthy recent development in any area of biomedical research to:

The Editor, *Nature Medicine*, 345 Park Avenue South, 10th Floor, New York, NY 10010-1707, Fax: (212) 683-5751 medicine@natureny.com

The deadline for application is 6 July 2001.



At Dyax, we value the total employee experience. We offer an entrepreneurial environment where you have a direct impact on the success of the business. We encourage initiative and we provide the support and necessary resources for you to achieve both personal and professional success. From scientists who are passionate about their work, to business developers with a vision, Dyax is a dynamic, exciting place to work!

# **Process Development Scientist**

In this critical and hands-on role, you will be responsible for the development of protein purification processes at Dyax. This will involve developing and scaling-up to prototype levels (<10 gm) purification processes for novel proteins and peptides and overseeing the development of appropriate product characterization assays. Once you have successfully established the purification, you will oversee the transfer of purification and assay protocols and technologies to outside parties. This position will have numerous interactions supporting both the in-house and client-based manufacturing. In order to be considered for this position, you MUST have 5-10 years of industry experience, with a PhD in biochemistry, biology, chemistry or related scientific field as well as experience with HPLC and GLP or cGMP requirements. Only candidates with industry experience will be considered.

# **Discovery Research Senior Scientist**

In this position, you will be responsible for new projects being developed within the Discovery Research group. By using phage display, you will discover antibodies or peptides that bind to targets identified in the areas of inflammation, cancer and neurobiology. You should also be able to contribute independently in a group environment working with other scientists in molecular and cell biology. Experience in molecular biology is required with strong background in immunology, cell biology or tumor biology. A Ph.D. and 3-6 years experience are required as well.

Interested candidates should apply to employment@dyax.com. For more information, please visit us at www.dyax.com. Dyax Corp., One Kendall Square, Cambridge, MA 02139



ROSETTA INPHARMATICS is the leading provider of informational genomics solutions. By combining the power of informatics and genomics, we have created proprietary technology that improves the drug discovery process. We are a fast-paced and growth-oriented biotechnology company working on the leading edge. We are currently seeking dynamic, qualified applicants to join our team in the greater Seattle, WA area.

# **Biosoftware**

- Informatics Programmer
- Technical Account Manager

# Informatics

- Senior Genome Analyst
- Senior Data Analyst
- Bioinformatics Scientist

# Molecular Biology

- Molecular Toxicologist
- Cell Biologist
- Gene Delivery Scientist

# **Operations**

- Quality Engineering Technical Support
- Lab Production Associate

For additional information, please visit our Web site at <u>www.rii.com</u>. To apply for a position, please send your resume via email to <u>hr@rii.com</u> or fax 425-821-5354. EOE. Principals only.



At **Celera**, our discoveries are changing the course of history and revolutionizing science. We currently have the following opportunities available:

# Senior Scientific Operations Manager

Responsible for the development, leadership and direction of a stateof-the-art high throughput DNA sequencing and analysis laboratory, using recombinant DNA technology and nucleic acid chemistry. The specific responsibilities for this position include:

- Manage scientific/technical staff.
- Provide scientific technical direction to manufacturing/ operation group.
- Forecast short-and long-term scientific operation needs maintaining and improving product integrity.
- Manage and coordinate resources to meet defined production commitments and project goals.
- Evaluate new methods, assays and instrumentation, enabling continuous improvement of scientific operations and product integrity.
- Coordinate scientific and administrative components of government grants and contracts.
- Manage internal cross-platform and cross-departmental projects.
- Manage external scientific collaborations and business partnerships.
  Collect, assemble and analyze data for internal and external
- Presentation.
- Represent Company to the external business and scientific communities.

Minimum requirements are: Ph.D. in Molecular Biology or a closely related discipline; a comprehensive understanding of structural and functional genomics, and a working knowledge of laboratory manufacturing principles, information systems and quality systems. At least two years' experience managing a technical staff in a large-scale effort in a life-science organization is also required. Strong communication skills including oral, written and the ability to competently communicate scientific information and interact with a variety of outside organizations. **(JOB CODE: R/I-6)** 

# Senior Scientific Product Manager

Responsible for leading efforts to integrate analysis tools and third party content into Celera's information products. The specific responsibilities for this position include:

- Define and justify new scientific products, direction including updates.
- Define scientific and computing requirements for a given product.
  Define and establish alliances with any third party scientific
- companies relevant to the Company's interests. • Work with the business development team to establish and
- work with the business development team to establish and map out alliances.
- Work with sales, marketing and customer relations to communicate products and product requirements to scientific/ biotech/pharma community.
- Liaison with appropriate departments and individuals for efficient product development.
- Maintain current knowledge base on relevant scientific data and analysis tools.
- Present at scientific conferences and company road shows.

Minimum requirements include a Ph.D. degree in Biochemistry, Chemistry, Biology, Molecular Biology, Computational Biology, Genetics or a related field, such as Pharmacology and relevant bioinformatics experience. Strong software development and bioinformatics skills. Knowledge of marketing and sales concepts as it relates to product development and strategies and market development. Strong communication skills including oral, written and scientific presentations/demonstrations. **(JOB CODE: R/I-7)** 

Our employees enjoy excellent compensation and benefits. Please send resume to: Celera, Attn: HR (insert job title), 45 West Gude Drive, Rockville, MD 20850, Fax: (240) 453-3311. Celera is

committed to a drug-free work environment. EOE, M/F/D/V.



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# Alliance for Nanomedical Technologies The Alliance for Nanomedical Technologies is a unique partnership that will unite academia and the private-sector of New York State to develop the next generation of medical devices. We seek a number of scientists including biologists, material scientists, engineers, physicists and chemists to join collaborative research teams. Research efforts carried out by these collaborating teams of faculty and scientists will be directed to exploiting the interface efforts carried out by these collaborating teams of faculty and scientists will be directed to exploiting the interface between biology and engineering to design and fabricate novel nanomedical devices. One goal of the Alliance is to create user facilities (*nanoBioFab*) as well as formulate programs to train workers whose skills will be needed to establish New York as the premier location for this new industry. The Alliance is supported by the New York State Office of Science, Technology and Academic Research (NYSTAR). It builds upon the infrastructure of the Nanobiotechnology Center, a National Science Foundation supported Science and Technology Center, the Correll Nanofabrication Facility, and the Center for Advance Technology in Biotechnology. All appointments will be negotiated through the Alliance and individual faculty should not be contacted. Faculty currently associated with the *Alliance* include: Cornell University-Carl A. Batt, Antje J. Baeumner, George Gregory Malliaras, Kevin Kornegay, Emmanuel P. Giannelis, Watt W. Webb, Frank W. Wise, Harold Craighead, Jun-Lin Guan, Michael G. Spencer, Albert J. Sievers, Manfred Lindau, David Russell, Barbara Baird. University of Rochester-Robert W. Boyd; Weill Medical College of Cornell University-Yao-Tseng Chen. Senior Research Associate The Senior Research Associate should have a Ph.D. and a minimum of 3-5 years in the area of microfabrication or associated fields. This position will report to the Project Leader for the *Alliance* and will be responsible for a group of four staff members that will form a core technical resource to the Alliance. He/She should have strong leadership skills and be able to act as a liaison with the faculty and the private-sector. In AWARDS & PRIZES addition, he/she should be able to generate an independent research that would be suitable in the field of nanobiotechnology and seek collaborators within the *Alliance* and assist private-sector users who want to partner with the Alliance Research Associates A total of three Research Associate positions are available both for the *nanoBioFab* facility and for the collaborative research teams. The *Alliance* is interested in Ph.D. level scientists and engineers with previous post-GENOMICS doctoral experience especially those with training in microfabrication, material sciences and optics. **Postdoctoral Associates** A total of ten Postdoctoral Associate positions are available for individuals interested in joining collaborative research teams. We seek Ph.D. level scientists and engineers in engineering, applied physics, chemistry, optics and the life sciences. Application WEST Please submit a current curriculum vitae and the names of at least three references to: Carl A. Batt, Project Leader, Alliance for Nanomedical Technologies CORNELL 135 Biotechnology Building, Cornell University, Ithaca, NY 14853 Fax (607) 255-8741, cab10@cornell.edu Cornell University is an Affirmative Action/Equal Opportunity Employer and Educator strongly committed to diversity. We value qualified candidates who can bring to our community a variety of backgrounds and experiences. http://www.campuslife.cornell.edu/main/ http://chronicle.com/jobs/profiles/002711.htm Director Program of Dialogue on Science, Ethics, and Religion American Association for the Advancement of Science

The Dialogue on Science, Ethics, and Religion (DoSER), a program of the American Association for the Advancement of Science (AAAS), is seeking an experienced scientist familiar with the science and religion field who will serve as full-time Director of the program reporting to the Director of the Director of the programs. Salary will be commensurate with experience. Our preference is for the successful applicant to begin September 1, 2001, but the starting date is open to negotiation. **EOE** 

**Qualifications:** a Ph.D. in a scientific discipline related to DoSER's projects and priorities  $\bullet$  research experience and publications  $\bullet$  awareness of developments related to the interface between science and religion/ethics through teaching, research, and/or participation in projects and conferences  $\bullet$  five to seven years experience in positions that involve management skills, fund raising, and budgeting  $\bullet$  excellent writing and verbal communication skills

Application deadline: August 1, 2001

Send a copy to:

Send applications by mail to: **AAAS Human Resources Dept.** Suite 100 1200 New York Avenue, NW Washington, DC 20005 OR Email to: <u>hr-temp@aaas.org</u>

Albert H. Teich, Ph.D. Director AAAS Science and Policy Programs 1200 New York Avenue, NW Washington, DC 20005 Submit Search

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Meetings and Announcements www.sciencemeetings.org

For more information about DoSER and the Director's position visit our website: <u>http://www.aaas.org/spp/dser/</u>

# PREPARATORY COMMISSION FOR THE COMPREHENSIVE NUCLEAR-TEST-BAN TREATY ORGANIZATION (CTBTO) PROVISIONAL TECHNICAL SECRETARIAT



The Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization with its Headquarters in Vienna is the international organization setting up the global verification system foreseen under the Comprehensive Nuclear-Test-Ban Treaty (CTBT), which is the Treaty banning any nuclear weapon test explosion or any other nuclear explosion. The Treaty provides for a global verification regime, including a network of 321 stations worldwide, a communications system, an international data centre and on-site inspections to monitor compliance.

We seek to recruit a highly qualified candidate for the following position:

| POST:                    | Radionuclide Technician |
|--------------------------|-------------------------|
| GRADE:                   | G-6                     |
| VACANCY ANNOUNCEMENT NO: | VA34-30-2001            |
| DATE OF ISSUANCE:        | 30 May 2001             |
| DEADLINE:                | 17August 2001           |
| REPORTING DATE:          | As soon as possible     |

# **DUTIES AND RESPONSIBILITIES:**

Under the supervision of the Chief, Radionuclide Monitoring Section, International Monitoring System Division, to: Provide support in the implementation of contracts for radionuclide stations including visits to stations; ensure the timely and correct delivery of services and equipment; review invoices for correctness and completeness and assist in the certification process. Maintain equipment held in the Secretariat and perform tests to optimize equipment. Maintain special radionuclide software; modify and/or improve software to control stations and to transfer data. Provide support in the maintenance and replacement of equipment and in the certification and operation of radionuclide laboratories for States Signatories.

#### **OUALIFICATIONS:**

Completed secondary education and training. Education beyond high school in a field relevant to the work desirable. Appropriate experience in a field related to radionuclide detection (including software). Fluency in English and a good knowledge of at least one other of the official languages of the CTBTO Preparatory Commission. Excellent communication skills in English are essential

## **REMUNERATION/CONTRACT:**

Depending on professional background and experience, indicative tax-free annual net base salary in Austrian Schillings 508,794,- subject to deductions of contributions to the CTBTO Provident Fund and Health Insurance Scheme; six weeks vacation per year. In the case of international recruitment additional benefits may include: education grant for children; rental subsidy; home leave travel every two years.

For more information, see the CTBTO Preparatory Commission's home page: http://www.ctbto.org. When applying, please quote the number of the vacancy announcement and complete the CTBTO Preparatory Commission's Personal History Form, which is obtainable from the home page. Please only e-mail ASCII text-formatted messages and attachments. If the form is not available, send a detailed curriculum vitae, including information on date of birth nationality employment history and references. Please note that it is in your interest to supply a complete and updated set of personal data

The CTBTO Preparatory Commission retains the discretion not to make any appointment to this vacancy, to make an appointment at a lower grade in particular if the selected candidate has less than the qualifications required or to make an appointment with a modified job description or for a shorter duration than indicated above. The CTBTO Preparatory Commission reserves the right to undertake correspondence only with shortlisted candidates.

CTBTO Preparatory Commission, Personnel Section, Vienna International Centre, Room E0978, P.O. Box 1200, A-1400 Vienna. Tel: (43.1) 26030 6210. Fax: (43.1) 26030 5897. E-mail: personnel@ctbto.org

THE PREPARATORY COMMISSION FOR THE COMPREHENSIVE NUCLEAR-TEST-BAN TREATY ORGANIZATION IS COMMITTED TO A POLICY OF EQUAL EMPLOYMENT OPPORTUNITY. APPLICATIONS FROM QUALIFIED FEMALE CANDIDATES ARE PARTICULARLY ENCOURAGED.



# NIH Integrated Review Group Chief For Cardiovascular Sciences

The Center for Scientific Review (CSR) at the National Institutes of Health (NIH) seeks to identify a highly qualified research scientist who is interested in serving as the Integrated Review Group (IRG) Chief for the Cardiovascular Sciences (CVS) IRG. An IRG is a group of scientifically related review groups or study sections. The CVS IRG is currently made up of eight scientific review groups with a staff of six Scientific Review Administrators (SRAs), plus support staff.

The CVS IRG Chief should have broad scientific knowledge of, and a history of proven independent research experience in one of the cardiovascular sciences disciplines. Candidates should be highly motivated individuals with excellent judgment and highly developed communication, supervision, analytic, interpersonal, organizational and writing skills. The CVS IRG Chief will help shape and lead the future of scientific review.

The CVS IRG Chief provides supervisory management and scientific leadership for the IRG and is also an SRA. An SRA is responsible for understanding the current state and identifying future directions of a specific area of biomedical and behavioral science; selecting members of review panels; managing study section meetings; facilitating interactions with study section members and communicating the results of their deliberations and recommendations to applicants and the staff of the NIH Institutes that fund the research.

Applicants must have: a Ph.D., M.D., D.V.M., or equivalent degree (or have equivalent training and experience), postdoctoral research training, a significant record of independent research accomplishment, and administrative experience. Salary will depend on experience and accomplishments. A recruitment or relocation bonus may be available.

Please send your curriculum vitae to:

Michael R. Martin, Ph.D. Center for Scientific Review National Institutes of Health 6701 Rockledge Drive, Room 6160 Bethesda, MD 20817 Or SRAJobs@mail.nih.gov

Selection for all positions will be based on merit, with no discrimination for non-merit reasons, such as race, color, sex, national origin, marital status, handicap, age, sexual orientation, or membership/non-membership in an employee organization. Deadline for consideration: July 27,2001.

NIH is an Equal Opportunity Employer

# POSITIONS OPEN

### FACULTY POSITION Electrophysiology/Membrane Transport

The Department of Physiology and Biophysics at Case Western Reserve University invites applications for a tenure-track position at the **ASSISTANT PRO**-FESSOR level. Individuals capable of establishing an independent, extramurally funded research program implementing a biophysical approach to study ion channels and/or membrane transporters are encouraged to apply. Although all outstanding candidates will be considered, we especially encourage applications from individuals interested in ion channel structure/function and individuals with experience using fluorescence imaging techniques to study signaling mechanisms regulating membrane transport. The Department offers a highly competitive compensation package, generous start-up funds, state-of-the-art research facilities, and a highly intereative research environment. A major strength of the Department is the combination of faculty working on various aspects of membrane transport, structural biology, cell biology, and integrated systems biology. Review of applications will begin immediately. Interested candidates should submit their curriculum vitae, a brief statement of research interests, reprints of three representative publications, and contact information for four references to: Membrane Transport Faculty Search, c/o Robert Harvey, Department of Physiology and Biophysics, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4970. E-mail: rdh3@po.cwru.edu; website: http://physiology.cwru.edu. Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.

#### TENURE-TRACK NEUROSCIENCE FACULTY POSITIONS University of Cincinnati College of Medicine

Two new appointments for tenure-track faculty are available in the Department of Neurology; junior and senior Investigators will be considered. We are particularly interested in candidates studying movement disorders or CNS demyelinating disease, but outstanding candidates studying any aspect of clinically relevant neuroscience are encouraged to apply. Generous start-up packages, competitive salaries, and space in the new state-of-the-art Vontz building are available. Applicants will join a vibrant and collegial universitywide neuroscience program with opportunity for interdepartmental collaborations (website: http://neuroscience.uc.edu/). The successful junior applicant will have postdoctoral and/or Fellowship experience, a robust publication record, and the potential to develop significant extramural support. More senior Investigators will be leaders in their fields. Applicants Board certified in neurology are preferred but Ph.D. Scientists will also be considered. Applicants should send curriculum vitae; statement of research accomplishments and plans; and three letters of reference by September 15, 2001, to: Dr. Joseph Broderick, M.D., Professor and Chairman, Department of Neurology, University of Cincinnati College of Medicine, P.O. Box 670525, Cincinnati, OH 45267-0525.

The University of Cincinnati Medical School is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.

## FACULTY POSITION MICROBIOLOGY

The University of Mississippi Medical Center invites applications for a tenure-track faculty position at the rank of ASSISTANT or ASSOCIATE PRO-FESSOR. It is anticipated that the position will be filled by an individual with a research interest in molecular virology or viral immunology. Interested individuals should send curriculum vitae, a statement of research interest, and the names and addresses of three references to: Dr. L. W. Clem, Department of Microbiology, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216.

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

# POSITIONS OPEN

# NEUROSCIENTIST/NEUROLOGIST

The Department of Neurology, Northwestern University Medical School and Northwestern Memorial Hospital, is seeking an M.D. or M.D./Ph.D. full-time academic Neurologist with strong cellular and molecular research interests. The Department is committed to excellence in both clinical and basic sciences, and substantial resources have been given for the expansion of the Department's research and clinical programs. Examples of areas of interest in the Department include stem cell biology, the biology of channels and receptors, sleep and circadian rhythms, molecular genetics of neurologic disease, neurooncology, and stroke. Research space and substantial support are available for development and expansion of basic research programs in each of these areas as well as other related ones. Salary will be negotiable depending upon rank and experience. Please refer to Academic Search number P-256-01

Interested candidates should send their curricula vitae to: John Kessler, M.D., Chairman, Department of Neurology, Northwestern University Medical School, 710 North Lake Shore Drive, Chicago, IL 60611. Telephone: 312-503-2775; e-mail: jakessler@northwestern.edu.

In order to ensure full consideration, applications must be received by September 1, 2001. Northwestern University is an Equal Opportunity Employer and encourages women and minorities to apply.

California Institute of Technology invites applications for one faculty position at the interface of chemistry with the biological sciences. Appointment in the Division of Chemistry and Chemical Engineering is anticipated. Candidates proposing interdisciplinary research programs in biochemistry and biophysics are of particular interrest, and strong interactions with other divisions of the Institute are expected. Joint appointments in other divisions will be arranged as appropriate. Exceptionally well-qualified applicants will be considered for a tenure-track appointment at the ASSISTANT, ASSOCIATE, and FULL PRO-FESSOR levels. Initial appointment at the Assistant Professor level will be for four years. Outstanding candidates who have completed their Ph.D. and have a strong commitment to research and teaching are encouraged to apply. Submit curriculum vitae, publication list, a concise description of proposed research, and three letters of recommendation by October 15, 2001, to: Professor John H. Richards, Chair, Faculty Search Committee, Braun Laboratory, 147-75, California Institute of Technology, Pasadena, CA 91125. The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

# TENURE-TRACK POSITION BIOCHEMISTRY/BIOTECHNOLOGY

Beginning January 2002. Ph.D. in biochemistry or related field with two years of postdoctoral experience in bioorganic chemistry, preferably in the area of drug design and interactions and/or bioinformatics. Send letter of application, statement of research interests and teaching philosophy, résumé, official transcripts, and three letters of reference to: Dr. Bea Clack, Department of Chemistry, Division of Biotechnology, P.O. Box 13006, SFA Station, Nacogdoches, TX 75962. FAX: 936-468-6915; Telephone: 936-468-6908; e-mail: bclack@sfasu.edu.

RESEARCH ASSOCIATE/RESEARCH AS-SISTANT PROFESSOR to join a highly interactive, NIH-funded cardiovascular research group studying cardiac muscle/myocyte function. Applicants should have extensive experience in biochemical and molecular approaches (e.g., Westerns, Northerns, PCR, adenovirus technology, enzyme and ligand binding assays, cell culture) and a desire to work in a multidisciplinary group studying normal and pathophysiological regulation of cardiac muscle. Reply to: Donald M. Bers, Ph.D., Professor and Chair, Department of Physiology, Loyola University Chicago, 2160 South First Avenue, Maywood, IL 60153. E-mail: dbers@lumc.edu.

# POSITIONS OPEN

#### TENURE-TRACK POSITION Department of Biochemistry University of Saskatchewan

Structural Biologist: Applications are invited for a tenure-track appointment at the level of ASSIST-ANT PROFESSOR in the Department of Biochemistry, College of Medicine (website: http:// www.usask.ca/medicine/biochem/). Applicants should have a Ph.D. with expertise in the area of X-ray crystallography of biological macromolecules or of nuclear magnetic resonance spectroscopy of biological macromolecules. Duties will include teaching at the undergraduate and graduate levels of biochemistry. The existence of new facilities, the Canadian Light Source (website: http://www.cls.usask.ca/), and the Saskatchewan Structural Sciences Centre (website: http://www.usask.ca/sssc/) will provide appointees with access to state-of-the-art equipment. The successful applicant is expected to have a strong research program and to obtain research funding from national granting agencies.

The closing date for receipt of applications is September 1, 2001, and the anticipated date of appointment is January 1, 2002. An application including curriculum vitae; names, addresses, and e-mail addresses of three references; and a statement of previous teaching experience and research interests should be sent to: Dr. L. T. J. Delbaere, Head, Department of Biochemistry, College of Medicine, University of Saskatchewan, 107 Wiggins Road, Saskatoon, SK S7N 5E5 Canada. Telephone: 306-966-4360; FAX: 306-966-4390; email: louis.delbaere@usask.ca. The University of Saskatchewan is committed to Employment Equity. Members of designated groups (women, aborginal people, people with disabilities, and visible minorities) are encouraged to selfidentify on their applications.

## FACULTY POSITION High Tech High

High Tech High (HTH) is a public charter secondary school dedicated to immersing students in authentic investigations, adult-world experiences, and a culture of community and personalization. HTH San Diego has a faculty opening in chemistry for September 2001. The successful candidate will demonstrate the ability to conduct investigations with secondary school students and contribute to the evolution of our community. Candidates should have a Ph.D. in chemistry or equivalent experience in conducting investigations and have demonstrated teaching experience. Applicants should send cover letter, résumé, and three references to: High Tech High, Reference 3674, 2861 Womble Road, San Diego, CA 92106-6025. For more information, see website: http://www. hightechhigh.org; e-mail: lwalters@hightechhigh. org. HTH is an Equal Opportunity Employer.

#### RESEARCH ASSISTANT/ ASSOCIATE PROFESSOR

The University of Illinois Section of Geriatric Medicine invites applications for a Research Faculty position at the Assistant or Associate level. An Investigator is needed for collaborative and independent research related to mechanisms of gene expression/signal transduction and senescence. Ph.D. with experience in molecular biology and/or immunology required. For fullest consideration, send curriculum vitae and names of three references by July 9, 2001, to: Joseph Wysocki, UIC Department of Medicine, Suite 172, CSN Building (M/C 787), 840 South Wood, Chicago, IL 60612. UIC is an Affirmative Action/Equal Opportunity Employer.

MICROBIAL GENETICIST position (not tenured) is immediately available at the University of Florida for. a Ph.D. with postdoctoral experience in the genetic engineering of Gram positive bacteria and modern protein methods. Please send curriculum vitae and three letters of reference to: L. O. Ingram, Microbiology and Cell Science, Box 110700, University of Florida, Gainesville, FL 32611.



The administrative structure of the LSU School of Veterinary Medicine was reorganized in December 2000. Five departments merged to form two new departments - the Departments of Comparative Biomedical Sciences and Pathobiological Sciences. The basis of reorganization was to further enhance research programs. The School is now seeking two department heads with established research records to provide leadership and direction to the new departments.

The Department of Comparative Biomedical Sciences provides teaching and training in areas of Molecular/Cell Biology, Anatomy, Physiology, Environmental Health Sciences, Pharmacology and Toxicology. The Department has excellent research/support equipment and physical facilities: Inhalation Toxicology Lab, Analytical Systems Lab, Equine Medication Surveillance Lab and the Microscopy Center.

The Department of Pathobiological Sciences provides teaching and training in areas of Immunology, Parasitology, Virology, Bacteriology, Pathology and Epidemiology. The Department has excellent research/support equipment and physical facilities: The Gene Lab, Cell and Organ Culture Lab, Flow Cytometry Laboratory and Histology Lab.

**Oualifications:** The School is seeking experienced managers with strong leadership skills that can administer the teaching and research programs of the respective departments. A Ph.D. is required in one of the fields of emphasis in the Department, and the applicant should have a record of continuing success in obtaining significant extramural funding. Candidates must be able to communicate effectively with people at all levels of the university, industry and private sectors.

Application/Nomination: Review of applications will begin July 15, 2001, and continue until the positions are filled. Qualified persons should submit a letter of application, a statement of research, teaching, and administrative philosophy, a complete CV and five references (addresses and phone numbers). Letters of nomination are strongly encouraged.

Submit applications and nominations to: Dr. Steven A. Barker, Chair, CBS Department Head Search Committee, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA 70803, Phone (225) 578-3602, Fax (225) 578-3086, E-mail: fenright@agctr.lsu.edu Additional information may be found at: http://www.lsu.edu and http://www.vetmed.lsu.edu.

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# **PROJECT MANAGER, RESEARCH**

INITIATIVE

SPARKS

Capitalize on your extensive experience in professional project management by collaborating with senior scientists in our Research Organization. Responsibilities will include forecasting resource requirements and budgets; overseeing long-range planning; identifying and spreading best practices; and managing transactions with other Biogen functions. This position requires a BS, MS or PhD in a scientific discipline, 3-5 years industrial experience and a demonstrated knowledge of biological/therapeutic research.

Foster your initiative and creativity at Blogen. We have one of the strongest financial profiles in the industry and our compensation and benefits package, including equity participation, is unmatched. For consideration, please forward your resume to: Biogen, Inc., Attn: Human Resources, Source Code: RC-207-SCI, 14 Cambridge Center, Cambridge, MA 02142; Email: resumes@blogen.com (Source Code ONLY must appear in the subject line). Blogen is an Equal Opportunity Employer. No phone calls, please.



www.biogen.com

# **POSITIONS OPEN**

# DIRECTOR University of Nebraska State Museum

The University of Nebraska–Lincoln (UNL) invites nominations and applications for Director of the University of Nebraska State Museum, a large comprehensive museum of natural history with a faculty and staff of 50, a budget exceeding \$2 million, and a research collection of more than 15 million specimens.

The Director will provide administrative leadership and is responsible for securing increased external funding, enhancing and expanding physical facilities, and developing and implementing a strategic plan to facilitate the growth of the Museum's research, education, and outreach programs.

The successful applicant will have an earned Doctorate in a natural science or related museum field, proven leadership skills in large museum with research and public programs, and excellent external relations skills.

Applications will be reviewed beginning September 15, 2001. Interested candidates should forward a letter of interest, up-to-date curriculum vitae, and names and addresses of five references. E-mail nominations and applications to: UNLresearch@unl.edu or mail to:

Search Committee Director, University of Nebraska State Museum 302 Canfield Administration Lincoln, NE 68588-0433

The University of Nebraska is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity and is responsive to the needs of dual-career couples. We assure reasonable accommodation under the Americans With Disabilities Act; contact: Ms. Sharon Walin; Telephone: 402-472-3123 for assistance.

#### POSTDOCTORAL FELLOW OPHTHALMOLOGY University of Washington School of Medicine

The University of Washington, Department of Ophthalmology, invites applications for a Postdoctoral Fellow to conduct projects related to wound healing, apoptosis, engineering of corneal cells *in vito*, gene transfer with viral vectors, and growth factor regulation of corneal development. The Department has a very active vision research program that creates an outstanding environment for training. Candidate is expected to have a Ph.D. or M.D. degree and experience in molecular or cell biology.

Applicants should send curriculum vitae and three letters of recommendation to: Steven E. Wilson, M.D., Professor and Chair, Department of Ophthalmology, University of Washington, Box 356485, Seattle, WA 98195-6485.

The University of Washington is building a culturally diverse faculty and strongly encourages applications from female and minority candidates. The University of Washington is an Equal Opportunity /Affirmative Action Employer.

A POSTDOCTORAL POSITION is available for an individual with strong experience in molecular and cellular biology. Projects focus on the role of the Src tyrosine kinase in intestinal cell growth control and the functional analysis of RACK1, an Src and PKC binding partner. This project is well funded through an NIH grant. Qualified candidates must be U.S. atizens or permanent residents with a Ph.D. degree or completing a Ph.D. graduate program. Send curriculum vitae and names and telephone numbers of three references to: Dr. Chris Cartwright, M.D., Department of Medicine, Division of Gastroenterology, CCSR Building, Room 3115C, 269 Campus Drive, Stanford University School of Medicine, Stanford, CA 94305-5187. E-mail: chris.cartwright@stanford.edu; FAX: 650-723-5488.

# POSITIONS OPEN

#### FACULTY POSITION Department of Immunology University of Washington School of Medicine

The University of Washington seeks highly qualified applicants for tenure-track appointments in the Department of Immunology. Applicants must hold Ph.D. or M.D. degrees, have a record of published research in immunobiology, and have teaching experience at the undergraduate and graduate levels. Although the emphasis will be placed on recruiting AS-SISTANT PROFESSORS to the Department, outstanding applicants at the ASSOCIATE PROFES-SOR and PROFESSOR levels are encouraged to apply. The Department of Immunology offers excellent laboratory space, flow cytometry, confocal microscopy, transgenic animal facilities, and access to contemporary analytical tools to address complex systems at the genetic and protein level. Send curriculum vitae, a brief description of proposed research, and names and addresses of three references to:

> Christopher B. Wilson, M.D. Professor and Chair Department of Immunology Box 357650 University of Washington Seattle,WA 98195-7650

The University of Washington is an Equal Employment/ Affirmative Action Employer.

#### ASSISTANT PROFESSOR DEPARTMENT OF PLANT PATHOLOGY University of Minnesota

Tenure-track, 12-month research and teaching position focusing on potato diseases with an emphasis on disease resistance. The successful candidate will develop an independent research program including molecular and classical methods, teach in the graduate and undergraduate curricula, and participate in outreach activities. Minimum qualifications: Ph.D. by date of appointment in plant pathology or related discipline, background in disease resistance research, and publication record in refereed journals. Desired: experience in potato research, teaching, and grant writing; coursework or experience in genetics, molecular techniques, and breading; willingness to collab-orate. Salary: competitive and commensurate with qualifications and experience plus standard University benefits. Send curriculum vitae; transcripts; a written statement of research, teaching, and career goals (indicate subjects you are interested in teaching); and have three letters of recommendation sent to: Dr. Linda L. Kinkel, Chair, Plant Pathologist Search Committee, 495 Borlaug Hall, University of Min-nesota, Saint Paul, MN 55108. We will begin reviewing completed applications on September 1, 2001.

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

POSTDOCTORAL POSITION in neurophysiology available to study ion channels and cellular excitability. Electrophysiology experience using single channel and macroscopic patch clamp recordings as demonstrated by publication is required. Knowledge of amino acid oxidation, mitochondrial function, aging, cell biology, molecular biology, and optical methods is strongly desirable. Send curriculum vitae, names of references, and description of previous research experience to: T. Hoshi, Ph.D., Department of Physiology and Biophysics, The University of Iowa, Iowa City, IA 52242. FAX: 319-335-7330; e-mail: Toshinori-Hoshi@uiowa.edu; website: http://www.hoshi.org. The University of Iowa is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** at Blanchette Rockefeller Neurosciences Institute/West Virginia University available immediately to investigate cellular mechanisms of learning. The position requires documented patch clamp experience. Ph.D. required and background in brain slice neurophysiology preferred. Send curriculum vitae and references to: Bernard G. Schreurs, P.O. Box 9300, Morgantown, WV 26506. E-mail: bschreurs@hsc.wvu.edu. Affirmative Action/Equal Opportunity Employer.



POSITIONS OPEN

CENTER FOR COMPARATIVE FUNCTIONAL GENOMICS University at Albany, SUNY

Seeks **POSTDOCTORAL FELLOWS** to investigate animal models of human disease including cancer/metastasis. Qualified candidates will have a Ph.D. in molecular or developmental genetics or related area. Successful candidates will work in a new stateof-the-art facility housing both academia and industry. Salary and benefits are competitive. Please direct responses to:

Dr. Paulette McCormick Center for the Study of Comparative Functional Genomics Department of Biological Sciences University at Albany, SUNY 1400 Washington Avenue Albany, NY 12222 E-mail: Genomics@albany.edu

Please include curriculum vitae and three letters of reference or the names and e-mail addresses of three references

The University at Albany is an Equal Opportunity/Affirmative Action Employer.

## ASSISTANT/ASSOCIATE PROFESSOR Microbiology/Immunology

Louisiana State University Health Sciences Center School of Dentistry and Center of Excellence in Oral and Craniofacial Biology is seeking applicants for a 12-month, tenure-track faculty position at the Assistant or Associate Professor level in the Department of Microbiology, Immunology, and Parasitology. Applicants should have a D.D.S., M.D., and/or Ph.D. in microbiology, molecular genetics, or immunology and also be committed to teach dental and medical students as well as teach/mentor graduate students. Strong consideration will be given to candidates with research interests in oral microbiology, especially molecular genetics of yeast pathogenesis and/or immunology of oral infectious diseases. We are seeking an individual who has demonstrated the ability to establish an independently funded research program. For details about the Health Sciences Center, applicants are encouraged to visit our website: http://www. lsuhsc.edu, departmental website: http:// www.lsuhsc.edu/campus/micr, and dental school website: http://www.lsusd.lsuhsc.edu. Interested candidates should submit curriculum vitae with publications; statement of present and future research goals; and names and addresses of three references by September 1, 2001, to: Dr. Paul L. Fidel, Jr., Director of the Center of Excellence for Oral and Craniofacial Biology, LSU School of Dentistry, 1100 Florida Avenue, Box F-501, New Orleans, LA 70119. The University is an Equal Opportunity Employer.

# POSTDOCTORAL POSITIONS

Available immediately to study (1) posttranscriptional regulation of Topoisomerase II in anticancer drug resistance and (2) mechanisms of etoposide-induced leukemogenesis. Respond to: Jack C. Yalowich, Ph.D., Department of Pharmacology, University of Pittsburgh School of Medicine, Biomedical Science Tower W1355, Pittsburgh, PA 15261. E-mail: yalowich@pitt.edu.

POSTDOCTORAL POSITIONS to study either novel molecular chaperones that assemble, degrade, or regulate proteins to be secreted or the nonclassical secretion of proteins of medical importance from mammalian, yeast, and bacterial cells. Requires a recent Ph.D. and a strong background in molecular and cell biology. E-mail résumé with names of three references to: Steve Chuck, Molecular Medicine Unit, Beth Israel Deaconess Medical Center and Harvard Medical School. E-mail: schuck@caregroup. harvard.edu.



A postdoctoral position is available immediately for an individual who is interested in studying genetic susceptibility in prostate cancer. The lab currently focuses on identification of genetic defects in prostate cancer using approaches ranging from functional genomics to identify candidate genes, DHPLC technology to detect genetic defects of candidate genes in cancer patients, mammalian cell culture analysis to delineate the function and mechanisms of the mutant genes in tumorigenesis (please see Nature Genetics 26:146-47, 2000). Several genes that are mutated in prostate cancer have been identified. The candidate will be required to undertake further genetics and functional analysis of these genes in prostate cancer. Applicants should have a Ph.D. degree, be self-motivated and have strong research background in cancer genetics and/or tumor biology. Salary will be determined by the successful candidate's experiences. There is also an attractive benefit package. The clinic research environment at Mayo Clinic is excellent. Those interested in applying should send a curriculum vitae as well as the names, addresses, and phone numbers of three references to:

Wanguo Liu, Ph.D. Division of Experimental Pathology Mayo Clinic/Mayo Medical School 200 First Street SW, Hilton Building, Room 860B Rochester, MN 55905 E-mail: liu.wanguo@mayo.edu

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

# POSTDOCTORAL TRAINING IN VASCULAR AND NUTRITIONAL ASPECTS OF ARTERIOSCLEROSIS

Research training is available at The Children's Hospital of Philadelphia and the University of Pennsylvania School of Medicine in the following areas: (1) Lipid and lipoprotein metabolism and vascular cell biology as applied to understanding the development of atherosclerosis. (2) Nutritional status and the role of obesity and dyslipidemias in cardiovascular disease risk, especially in children. (3) Developmental origins of adult cardiovascular disease, tissue-specific gene therapy, and site-specific treatments of vascular pathology. (4) Biochemistry and enzymology of blood coagulation reactions relevant to thrombosis and hemostasis.

The 10 faculty members are internationally recognized in their areas of expertise, and the trainees will have the opportunity to be involved with the latest methods of molecular biology, cell biology, developmental biology, pediatric and adult nutrition and body composition, protein chemistry, biochemistry and metabolism, and gene therapy. The research is multidisciplinary and includes both basic as well as translational patient-oriented projects.

Candidates should be committed to a career in research, and hold a Ph.D. or M.D. degree. Stipends are competitive and appointments are normally for 2 years. Applicants should send curriculum vitae, statement of research interests, and the names and addresses of 3 references to:

Dr. Michael C. Phillips The Children's Hospital of Philadelphia University of Pennsylvania School of Medicine Abramson Research Center, Suite 302 3615 Civic Center Blvd. Philadelphia, PA 19104-4318 Telephone: (215) 590-0587 FAX: (215) 590-0583 Email: phillipsmi@email.chop.edu Affirmative Action/Equal Opportunity Employet

# Associate Laboratory Director

The Idaho National Engineering and Environmental Laboratory (INEEL) performs basic research, technology development and field deployment to support the U.S. Department of Energy (DOE). As lead laboratory for DOE's Environmental Management Program, INEEL is seeking a qualified candidate to provide leadership for research and development programs concentrating on environmental systems, environmental technology and related activities as an Associate Laboratory Director.

In this position, you will form and direct multidisciplinary teams that will address the following issues: environmental and human systems; development of environmental clean-up/waste treatment technologies; and the management of national environmental quality programs. You will provide leadership for INEEL's lead laboratory role for the DOE's Office of Environmental Management, strengthen the science underpinning of INEEL R&D and ensure integration of R&D activities with INEEL Operations and clean-up efforts.

In this position, you will also be responsible for the following major initiatives:

**Environmental Stewardship Initiative** - Long-term stewardship encompasses all activities, including physical and institutional controls, monitoring/surveillance, information management, and other mechanisms required to protect human health and the environment from hazards remaining after the selected environmental cleanup strategies are complete.

Waste Treatment and Disposition Initiative - The DOE weapons complex has a significant inventory of legacy wastes that were generated during the Cold War. Treatment and disposition of many of these waste streams (transuranic waste, mixed waste, and high-level waste) presents a wide variety of technical and regulatory challenges.

**Environmental Management Integration** - Provides technical support in identifying, evaluating, and solving problems that hinder waste/material disposition. EM Integration develops and promotes the use of innovative technologies to perform quicker, better and cheaper DOE cleanup. The program's areas of expertise include planning and integration for radioactive waste/spent nuclear fuel disposition, nuclear material disposition, transportation and science/technology.

**Decision Making** - Ensure that a systematic approach that includes both sound science and stakeholder involvement forms the basis for decisions made by DOE. Decisions should be based upon risk and socio-behavioral sciences. You will develop an integrated program of technology development, demonstration and deployment that is based in sound systems integration. These activities must fully engage the public and other stakeholders, ensuring that sound science underlies policy decision-making as well as ultimate acceptance of such decisions.

To qualify, you must have an earned doctorate degree in a physical science, environmental/energy science or other related discipline plus 15 years' related experience – of which 8 years should be in management roles.

To apply, send a cover letter along with a detailed resume or vita to:

Environmental Technology & Engineering C/O Dr. Paul Kearns Idaho National Engineering and Environmental Laboratory P.O. Box 1625, MS3898 Idaho Falls, ID 83415-3898

This is an open-ended search. Candidates are encouraged to submit an application at their earliest convenience.



Affirmative-Action/Equal-Opportunity Employer

# **VICAN** SCIENTIFIC POSITIONS

Seeking Ph.D. SCIENTIFIC DIRECTOR, RE-SEARCH AND DEVELOPMENT TECHNI-CIAN, and PRODUCTION TECHNICIAN. Successful Director candidate will be responsible for the development of new products for detection of analytes of relevance to the food industry. Responsibilities will include some bench-level research and organization of day-to-day operations of laboratories. Only applicants with product development and supervisory experience will be considered. Small company experience a plus (Job Code: SD). For Technician positions, a degree in the life sciences is required. Send résumé with cover letter indicating salary history and Job Code to: VICAM, 313 Pleasant Street, Watertown, MA 02472. FAX: 617-923-8055; e-mail: hr@vicam.com; website: http://www.vicam.com. Principals.

#### DEVELOPMENTAL BIOLOGIST GONZAGA UNIVERSITY

The Biology Department invites applications from broadly trained Developmental Biologists for a ten-ure-track ASSISTANT PROFESSOR position to begin in January 2002. Teaching expertise should include developmental biology, cell biology, and genetics, but assignments could also include introductory (organismal) biology, courses for nonscience majors, and courses in an area of specialization. The successful applicant will be expected to establish a research program involving our undergraduates and compete for extramural funding. Interested individuals should send curriculum vitae, statement of research and teaching interests, and three letters of rec-ommendation to: Dr. Peter Pauw, Biology Department, AD Box 8, Gonzaga University, 502 East Boone Avenue, Spokane, WA 99258. Review of applications will begin July 23, 2001. Gonzaga University is a Jesuit Catholic humanistic university looking for candidates who can contribute to its educational needs and missions. For further information, contact e-mail: pauw@gonzaga.edu. Gonzaga is an Affirmative Action/Equal Opportunity Employer seeking to increase its diversity.

# **RESEARCH STAFF ASSOCIATE**

The Division of Digestive and Liver Diseases at the College of Physicians and Surgeons of Columbia University has an opening for a Research Staff Associate or **POSTDOCTORAL RESEARCH SCIENTIST** at a Master's or Ph.D. level. The candidate must have two years of documented experience in research; be proficient in a broad range of laboratory techniques including techniques of molecular biology, radioimmunoassay, protein electrophoresis, and ELISA; and have experience in working with small laboratory animals. Submit curriculum vitae to: Kaarel Laev, Divisional Administrator, Medicine/Digestive and Liver Diseases, Columbia University, 630 West 168th Street, Box 83, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

## RESEARCH FELLOW/ RESEARCH SCIENTIST

Position available in the Laboratory of Gastrointestinal Tumor Biology of the Division of Digestive and Liver Diseases at the College of Physicians and Surgeons of Columbia University to study aspects of carcinogenesis including receptor activation, signal transduction, and genetics. The candidate must have two years of documented experience in research, be proficient in a broad range of laboratory techniques including molecular biology and biochemistry, and have experience working with small laboratory animals. Submit curriculum vitae to: Harold Frucht, M.D., Medicine/Digestive and Liver Diseases, Columbia University, 630 West 168th Street, Box 83, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.

# **POSITIONS OPEN**

Baxter Healthcare Corporation is a biotechnology company dedicated to the research, development, and manufacturing and sale of vaccines. We have an opening for a qualified candidate in our process development group working on our life-saving vaccine used in the prevention of infectious diseases, principally in children. The most advanced techniques are being utilized in the production and purification of these vitally important products.

We have an immediate opening for a **RESEARCH SCIENTIST**. Qualified candidates must have a Ph.D. in chemistry/biochemistry with a minimum of five years of working experience including two years of biotechnology industry experience. This position will lead the development of purification processes for recombinant protein production. It is essential that candidates have a working knowledge in ultrafiltration, column chromatography, and downstream biological process scale-up and automation.

We offer excellent salary and comprehensive benefits including health, pension plan, 401(K), and employee stock purchase plan. Please send your résumé to: Baxter, Attention: HR AB, 10150 Old Columbia Road, Columbia, MD 21046. FAX: 410-381-3453; e-mail: hrreply\_columbia@baxter.com; website: http://www.baxter.com/job\_seekers.

**RESEARCH ASSISTANT PROFESSOR** and POSTDOCTORAL RESEARCH ASSOCIATE positions available to work on the development of innovative new methods to study signaling networks, regulation of cell proliferation by novel genes, and production of knockout mice. Applicants for the Research Assistant Professor position must have M.D. or Ph.D. degree, potential for independent funding, and at least five years of postdoctoral training. Postdoctoral positions are available to highly motivated individuals with strong experience in molecular biology. Competitive salaries based on areas of expertise, research experience, and publication record. For fullest consideration, send statement of research interest and experience; curriculum vitae; and names of three references by August 15, 2001, to: Dr. Oscar R. Colamonici (OC001), Department of Pharmacology, University of Illinois, 835 South Wolcott Avenue, Room E403 (M/C 868) Chicago, IL 60612. Email: ocolamon@uic.edu. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

#### POSITION VACANCY ASSISTANT PROFESSOR

The University of Alabama at Birmingham (UAB), Department of Obstetrics and Gynecology, is seeking to fill an entry-level, **TENURE-TRACK FACUL-TY POSITION**. Candidates must be Board eligible/ Board certified in obstetrics and gynecology. A strong commitment to teaching, clinical care, and research should exist. Position will provide patient care in gynecologic oncology. Position requires completion of a certified program in gynecologic oncology with basic research experience in the subdiscipline. Candidates should have a strong interest in both clinical and basic sciences research activities.

Interested persons please apply by July 15, 2001, to: Kathy B. Minor, Executive Director, UAB Department of Obstetrics and Gynecology, 500 South 22nd Street, Birmingham, AL 35233. UAB is an Equal Opportunity Employer.

# POSTDOCTORAL POSITIONS AVAILABLE SLOAN-KETTERING INSTITUTE

Seeking **RESEARCH SCIENTISTS** with or without postdoctoral experience who wish to join a laboratory focused on defining the molecular events underlying normal or leukemic hematopoiesis leukemogenesis. Applicants should have considerable interest and expertise in the study of stem cell biology or of signal transduction pathways, protein-protein interactions, or modern gene expression technology. Send a description of your research interests, curriculum vitae, and the names and telephone numbers of three references to: **Dr. Stephen D. Nimer, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, Box 575, New York, NY 10021**.

# POSITIONS OPEN

#### RESEARCH POSTDOCTORAL IN PROTEOMICS LABORATORY The University of Texas Southwestern Medical Center at Dallas

Proteomics Laboratory at The University of Texas Southwestern Medical Center at Dallas is recruiting enthusiastic Scientists to take key role in developing and implementing mass spectrometry technology for protein identification and protein characterization. Candidates need Ph.D. degree in biochemistry with strong background in HPLC and protein chemistry. Experience in mass spectrometry, analytical chemistry, and physical chemistry is advantage but not required. If interested, FAX curriculum vitae and names of three references to: Yingming Zhao, Ph.D., Biochemistry Department, UT Southwestern Medical Center, 5323 Harry Hines Boulevard, Dal-las, TX 75390-9038. FAX: 214-648-8856; e-mail:yzhao@biochem.swmed.edu. Equal Opportunity/Affirmative Action Employer.

# BIOSTATISTICIAN

We are currently seeking an individual to join our company as a Biostatistician. The Biostatistician will join an exciting team developing models and related tools for predictive analysis of *in vivo* and *in vitro* pharmaceutical drug properties. The Company's informatics projects generate large, high-quality data sets specifically for statistical analyses and model development.

The successful candidate will have interest and experience in applying scientific computing and programming to data manipulation and statistical analyses along with an understanding of molecular structure interactions. Requirements for the position include a scientific degree (preferably a Ph.D.) in biophysics, physics, or mathematics with an emphasis in statistics and strong knowledge of chemistry. In addition, the successful candidate will have software development experience utilizing one or more of the following: Fortran, C/C++, Python, or Perl in a UNIX environment. Pharmaceutical or biotechnology experience, excellent communication skills, exceptional analytical skills, a high degree of self-motivation, and ability to work as a proactive team member are also required.

Cerep offers a competitive total compensation package as well as a dynamic and collegial work environment. Please send your confidential cover letter and curriculum vitae with salary requirements to the following e-mail address: n.legresley@cerep.com. To learn more about Cerep, please visit our website: http://www.cerep.com.

Cerep is an Equal Opportunity Employer.

### TENURE-TRACK INVESTIGATOR NEUROPHYSIOLOGY NINDS, NIH

As an integral part of the expanding neuroscience research community at NIH, the Intramural Research program at NINDS invites applications to fill a ten-ure-track faculty position. We seek an exceptionally talented Scientist to establish an independent research program studying the physiology of synaptic transmission. A Ph.D. and at least two years of postdoctoral experience are required. The successful candidate will join a diverse, collegial group of Investigators at NINDS (see website: http://www.intra. ninds.nih.gov) and become part of a new interinstitute neuroscience initiative. The position includes salary, a highly competitive start-up package, resources to hire two Postdoctoral Fellows and a technician, and a generous annual operating budget to support an imaginative and ambitious research program. Applicants should send curriculum vitae including bibliography, statement of research interests, and the names of three references to: Story Landis, Ph.D., c/o Mr. Glenn Hartzoge, Human Resources, NINDS, 36 Convent Drive, MSC 4152 36/5A07, Bethesda, MD 20892-4152. Applications must be received by July 31, 2001. NIH is an Equal Opportunity Employer.



Postdoctoral Positions Immunobiology of the MHC

Postdoctoral positions are available to investigate molecular mechanisms of antgen presentation to cytolytic CD8+ T cells. Current projects include: i) dissecting mechanisms by which mouse y-herpesvirus-68 and Kaposi's sarcoma-associated herpes virus escape immune surveillance, ii) defining the roles of CD8 and peptide/MHC complexes in the development of CD8+ T cells using novel single chain constructs, and iii) resolving the structure and function of previously uncharacterized classI-like proteins.

Experience in biochemistry or molecular biology desirable. Send curriculum vitae and the names of references to:

Ted H. Hansen, Ph.D./Janet Connolly, Ph.D. Immunology Program Box 8232 Washington University School of Medicine 4566 Scott Avenue St. Louis, Mo 63110

> hansen@genetics.wustl.edu connolly@genetics.wustl.edu



# Yale University

# School of Medicine

The Pharmacology Department at Yale University School of Medicine has several newly funded programs for research technicians and postdoctoral and postgraduate training.

Postdoctoral fellows are sought for participation in NIH funded programs involving:
 the regulation of cytoplasmic nuclear calcium in intracellular signaling, secretion, and

- cell growth; • the roles and mechanisms of Slo (BK) and Slack potassium channels in the nervous
- system; and system; and studies encompassing signal transduction by tyrosine kinases and tyrosine phosphatases
- studies encompassing signal transduction by tyrosine kinases and tyrosine phosphatases, x-ray crystallography, and knockout mice.

**Research Technicians** qualified in molecular biology techniques, including mating and genotyping of knock-out mice, tissue culture, basic protein purification experience, and x-ray crystallography.

**Postgraduates** in biology, chemistry, biochemistry, biophysics, and cell biology ready to spend 2-3 years working in a signal transduction lab and who are interested in being trained in basic molecular biology protein purification techniques and x-ray crystallography.

Projects include analysis of genetic knockouts, x-ray diffraction structural determinations, cryo-EM structure determinations, single-channel analysis of potassium and calcium channels, interaction of intracellular signaling on calcium transients, and cellular responses to anoxia and growth factors. Students with interests in neurophysiology, biophysics, channel protein biochemistry, and intracellular signaling are especially welcome to apply. Participating faculty laboratories include Leonard Kaczmarek, Edward Moczydlowski, Fred Sigworth, Gabriel Haddad, Anton Bennett, Barbara Ehrlich, and Joseph Schlessinger.

Send a cover letter with the position desired, curriculum vitae, statement of research interests and names of references to: Attn: Richard L. Wilson, Yale University School of Medicine, Sterling Hall of Medicine, P.O. Box 208066, New Haven, CT 06520-8066 or fax to (203) 785-7665. http://info.med.yale.edu/pharm/

An Equal Opportunity/Affirmative Action Employer

# Postdoctoral position available



Starting in August 2001 or later, a postdoctoral position is available in the Department of Cell Biology of the Biozentrum of the University of Basel, Switzerland. Our research focuses on cellular interactions in induction and cell migration, using Drosophila as a model system. We use genetics, molecular biology and biochemistry to characterize signaling pathways and their effectors. In order to complement our in vivo studies, we are looking for a molecular biologist with a strong background in protein purification and characterization. The position will be for three years with possibility for extension. Please send your CV, publication record and the names of two referees.

Further information is available at: http://www.biozentrum.unibas.ch/Affolter Prof. Markus Affolter, Biozentrum der Univer-

sität, Klingelbergstrasse 70, CH-4056 Basel Email: Markus.Affolter@unibas.ch

Central Florida

# Search for Director

CD3/An Interdisciplinary Center for Biomolecular Research University of Central Florida, Orlando, FL

Florida CD3, a University of Central Florida statefunded interdisciplinary center for

biomolecular research, seeks applications and nominations for Director. The Director will provide leadership and creative vision to further develop the Center as a national leader in research and education in the post-genomic era. CD3 has active collaborations with departments of Biology, Chemistry, Molecular Biology and Microbiology, Physics, the School of Optics/CREOL, and the School of Electrical Engineering and Computer Sciences. The University of Central Florida is a rapidly growing university of 33,000 students with an outstanding technology-based infrastructure and a commitment to develop niche areas in the biomolecular sciences and biotechnology. UCF is in Orlando. a dynamic and progressive metropolitan region, which is emerging as a major player in the high-tech growth of the Central Florida region.

Applicants must have a Ph.D., M.D. or equivalent degree in a relevant area. The successful applicant should also have demonstrated leadership ability, a record of internationally recognized, competitively funded research in some aspect of biomolecular science, participation in academic programs, and proven interpersonal skills. The Director, who reports directly to the Vice President for Research, is expected to work closely with the deans and chairs of academic departments, and is also expected to contribute to the success of a newly established interdisciplinary Ph.D. in Biomolecular Sciences.

Review of applications will begin September 1, 2001, and will continue until the position is filled. Applicants should submit a letter of interest and a *curriculum vitae* to Nancy Lynch, Office of Academic Affairs, Millican Hall 311, University of Central Florida, Orlando, FL 32816. Inquiries may be made to John Schell at schell@mail.ucf.edu or 407-823-4197.

The University of Central Florida is an Affirmative Action/Equal Opportunity Employer, and it encourages applications from minority candidates. As an agency of the State of Florida. UCF makes all application materials and selection procedures available for public review. POSITIONS OPEN



# **RESEARCH ADMINISTRATOR**

A nonprofit organization that coordinates the retrieval and distribution of human biomaterials nationally to biomedical Researchers invites applications for Research Administrator for its NIH-funded project. Qualified candidates with Ph.D. in molecular biology. immunology, genetics, pathology, or a related field are expected to have submitted successful grant applications to NIH; be familiar with NIH reporting requirements; and have project management experience. Computer expertise to include strong spreadsheet, database, and reporting skills. Must have excellent presentation and written skills as well as the ability to interpret and report on studies. An energetic team player committed to organizational growth and identification of new opportunities is required. NDRI, a rapidly growing 501 (C) 3 dedicated for over 20 years to serving the nation's biomedical research community, offers a competitive salary and excellent benefits Applications should include a letter of interest and curriculum vitae. NDRI, 1880 John F. Kennedy Boulevard, Sixth Floor, Philadelphia, PA 19103, Attention: K. Jennings. E-mail: kjennings@ndri. com; FAX: 215-557-7154.

#### ASSOCIATE RESEARCH SCIENTIST CT/MICRO-CT LABORATORY University of Iowa Department of Radiology

To provide scientific and technical leadership in the management, design, and conduct of CT/micro-CT research and development with an emphasis on biomedical applications associated with projects either funded or for funding. A Ph.D. or equivalent professional degree is required with specific areas of study relating to mathematics, computer science, and image analysis and visualization, with demonstrated knowl edge of state-of-the-art CT imaging. The applicant must have an established track record of publications in these fields and must have had success in achieving grant support. Desirable qualifications include experience in programming with C/C++/Matlab and experience in image processing/analysis and visualization. Send résumé and cover letter to: Ge Wang, Ph.D., The University of Iowa, 200 Hawkins Drive, Iowa City, IA 52242. The University of Iowa is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

#### POSTDOCTORAL TRAINING IN MEDICAL RESEARCH University of Michigan

Two positions in the Department of Internal Medicine focusing on immune defense. Research projects on (1) intracellular signaling pathways important to phagocytosis and (2) regulation of arachidonic acid metabolism in animal models of disease. Candidates will join a department emphasizing the training and development of Researchers in medical research including methodology, presentation at conferences, and writing manuscripts and successful grant proposals. Send curriculum vitae with names of three references to: Dr. Thomas G. Brock, Department of Internal Medicine, University of Michigan, 6301 MSRB III, Ann Arbor, MI 48109-0642. E-mail: brocko@umich.edu. Equal Opportunity/Affirmative Action Employer. Pursuant to NAFTA, citizens of Canada and Mexico are encouraged to apply.

#### STAFF ASSOCIATE Columbia University

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

# POSITIONS OPEN

The U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), located in the National Swine Research and Information Center (Ames, Iowa), is seeking a MICROBIOLOGIST (GS-11/12/13) to join their research team. The incumbent is a Scientist who serves as a leader and team member on projects relating swine production emissions and potential pathogenic risk factors to swine productivity and environmental quality. The personal research assignment is to determine the impact that swine production systems may have on (1) microbial diversity in the local environment near animal production systems, (2) release of pathogens and microbial elements into the environment, and (3) development of quantitative models for the design of swine production practices that minimize risk factors released from swine production facilities into the external environment. Salary commensurate with experience (\$43,326 to \$80,279). U.S. citizenship required. Ph.D. is preferred. Comprehensive benefits package includes paid annual and sick leave, life insurance, health insurance, and a savings and investment plan in addition to a federal retirement plan. For further information on this position, contact: Dr. Brian Kerr; Telephone: 515-294-5993; e-mail: kerr@nsric. ars.usda.gov. Vacancy announcements and application information can be obtained by ARS DIAL-A-VACANCY at Telephone: 301-504-1482, from Janae Lentz; Telephone: 515-663-7277, or the ARS website: http:// www.ars.usda.gov. Applications in response to this ad must be postmarked by August 6, 2001, and reference Vacancy Announcement number ARS-X1W-1371. The USDA/ARS is an Equal Opportunity Provider and Employer.

#### SENIOR RESEARCH ASSOCIATES Biology

Telik, Inc., is a biopharmaceutical company working to discover, develop, and commercialize small molecule drugs to treat diseases where there is significant demand for new therapies. The company's most advanced development programs are in the fields of cancer, inflammation, and diabetes.

We are looking for highly motivated, entrepreneurial team players with experience in molecular and cellular biology. This expertise should include plasmid construction, gene cloning, biochemical assays, and the use of mammalian cell culture. Experience in high-throughput assay development and cell line isolation is highly desirable. The ideal candidates will be local to the San Francisco Bay area; have a Master's degree in biology or a Bachelor's degree and at least three or more years of related industry experience; plus strong organization, communication, and interpersonal skills.

<sup>1</sup> Telik offers an attractive compensation package along with a challenging and rewarding work environment. No relocation assistance. For immediate consideration, please mail your résumé to: Telik, Inc., Attention: SRA-BIO, 750 Gateway Boulevard, South San Francisco, CA 94080. FAX: 650-244-9240; e-mail: inquiry@telik.com. Website: http:// www.telik.com for more information. Equal Opportunity Employer.

## SCIENTIST/SENIOR SCIENTIST (PH.D.)

DGI BioTechnologies Inc. is a midstage biotechnology company integrating gene expression, partner identification and target validation, site-directed assays and high-throughput screening into a unique and integrated drug discovery platform. The ideal candidate will know Oracle and Perl and be able to support the target identification and validation programs. A background in molecular biology with experience in the computational analysis of DNA, peptides, and proteins is essential. DGI offers a competitive salary with stock options and benefits. Please send your curriculum vitae, salary requirements, and a list of three references to: Dr. Neil Goldstein, Senior Director, Molecular Biology, DGI BioTechnologies Inc., 40 Talmadge Road, Edison, NJ 08818. E-mail: goldstein@gibt.com. DGI is an Equal Opportunity Employer.





#### **RESEARCH GENETICIST (PLANTS)**

The U.S. Department of Agriculture, Agricultural Research Service (ARS), U.S. National Arboretum in Beltsville, Maryland, has a full-time, permanent position for a Research Geneticist (plants) in the Floral and Nursery Research Unit to conduct basic and applied research to provide the genetic information necessary to select, breed, propagate, and utilize new and superior landscape trees with resistance to major pests and pathogens and capable of surviving under the environmental stresses of urban areas; examine introgression between cultivated trees and native populations and develop selections that minimize introgression; and assess potential invasiveness of nonnative germplasm or hybrids and investigate nontraditional breeding methodologies to expedite breeding objectives. Must be a U.S. citizen. Salary commensurate with experience (GS-12: \$53,156 to \$69,099; GS-13: \$63,211 to \$82,180). Closing date: July 30, 2001. Telephone: 301-504-1482 to request a copy of ARS-X1E-1322 or access website: http://www. ars.usda.gov. For specific questions, Telephone: 301-504-1333. USDA/ARS is an Equal Opportunity Provider and Employer. This agency provides reasonable accommodations to applicants with disabilities.

The U.S. Department of Agriculture, Agricultural Research Service, Bacterial Disease of Livestock Research Unit, Ames, Iowa, is accepting applications for **VETERINARY MEDICAL OFFICER** to conduct basic and applied research on brucellosis. The incumbent will work as a team member and an independent Investigator in studies concerned with (1) evaluating the safety and efficacy of vaccines for prevention of brucellosis in cattle and wildlife, (2) developing delivery systems for vaccination of wildlife, and (3) characterizing immune responses of different species of animals to vaccination and challenge with Brucella sp. The incumbent will be responsible for planning and conducting research, analyzing and interpreting results, and reporting results through publication in peerreviewed journals and presentations at conferences and professional meetings. A Ph.D. in microbiology or pathology or a related field or equivalent experience is preferred. Comprehensive benefits package includes paid annual and sick leave, life insurance, health insurance, and a savings and investment plan in addition to a federal retirement plan. Salary commensurate with experience (\$51,927 to \$80,279 per year). Candidate must be a U.S. citizen. For more information about the research program, contact: Diana Whipple; Telephone: 515-663-7325; e-mail: dwhipple@nadc.ars.usda.gov. For a copy of the vacancy announcement and application forms, contact: Janae Lentz; Telephone: 515-663-7277; ARS http://www.ars.usda.gov/afm/hrd/ website: Applications should resiobs. be marked ARS-X1W-1376 and must be postmarked by August 27, 2001. The USDA is an Equal Opportunity Provider and Employer.

SITE MANAGER: Interdisciplinary Ecological Research University of Wisconsin Center for Limnology seeks a Site Manager for the North Temperate Lakes Long-Term Ecological Research site at Trout Lake Station near Boulder Junction, Wisconsin. Required: Ph.D. in aquatic sciences or related field, minimum of two years of postdoctoral experience, and significant publication in primary scientific literature. Applications due July 25, 2001. Send résumé and cover letter with references to: Denise Karns, Center for Limnology, 680 North Park Street, Madison, WI 53706 U.S.A. Details available at website: http://www.ohr.wisc.edu/pvl/pv39876.html. Unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality. UW-Madison is an Equal Opportunity/Affirmative Action Employer.



# COLLEGE OF AGRICULTURE AND NATURAL RESOURCES DEPARTMENT OF ANIMAL AND AVIAN SCIENCES UNIVERSITY OF MARYLAND, COLLEGE PARK

# TWO POSITIONS IN TRANSGENIC ANIMAL BIOLOGY Assistant/Associate Professor/Professor (Full-Time Faculty)

Two outstanding individuals are sought, at any rank, to initiate new programs of research and teaching in **Animal Biotechnology** in the Department of Animal and Avian Sciences. A University of Maryland/USDA center for transgenic animal biology is under construction for this purpose.

VERSIN

**Position 1: Molecular Geneticist/Transgenic Biologist.** The candidate will take the leadership role in developing an Animal Biotechnology Program, teach an Undergraduate genetics course and a Graduate course in the candidate's area of research interests. Potential research areas include the development of nuclear cloning or stem cell technologies to investigate genes of significance for the growth, development and physiology of domestic animals.

**Position 2: Developmental Biologist/Transgenic Biologist.** The candidate will teach a course in the Animal Biotechnology Program and a Graduate course in the candidate's area of research interests. Potential research areas are similar to Position 1, except that **applications are particularly encouraged from individuals working in avian systems**.

Minimum qualification for these positions is a Ph.D. in the Biological Sciences. For appointment at a senior level, individuals must have an externally funded research program and an established record of productivity. Applications and nominations, including curriculum vitae, a brief statement of research accomplishments, a proposed research program, and the names and addresses of three references should be sent to the following address. Applications will be accepted until August 1, 2001 or until suitable candidates are identified.

Drs. Mary Ann Ottinger and Ian H. Mather Co-Chairs, Search Committee for Transgenic Animal Biologists Department of Animal and Avian Sciences University of Maryland College Park, Maryland 20742-2311, U.S.A.

The University of Maryland is an Equal Opportunity/Affirmative Action Employer. Web site: http://ansc.umd.edu/

# POSTDOCTORAL FELLOW

The Harvard/MIT Division of Health Sciences and Technology seeks a postdoctoral fellow to join a team of investigators studying cardiovascular function with emphasis on the development of new diagnostic and therapeutic techniques. Other projects include investigating the adverse effects of space flight on the cardiovascular system. The principal responsibility of this person will be to conduct and supervise various ongoing research projects.

**Requirements:** a Ph.D. and a strong background in biomedical engineering or biophysics. Must be self-directed and able to work effectively with others. A background in signal processing and computer programming/interfacing is highly desirable.

Interested applicants should send curriculum vitae and references to: Professor Richard J. Cohen, Harvard-MIT Division of Health Sciences and Technology, MIT, Room E25-335, 45 Carleton Street, Cambridge, MA 02142; Email: rjcohen@mit.edu.

> MASSACHUSETTS INSTITUTE OF TECHNOLOGY An Equal Opportunity/Affirmative Action Employer Non-Smoking Environment web.mit.edu/personnel/www



# Faculty Position BIOINFORMATICS Virginia Commonwealth University

The Department of Biostatistics, the Massey Cancer Center and VCU Life Sciences are recruiting in the areas of genomics, expression ar-

raying and proteomics. As part of this effort, and to support ongoing research efforts in the areas of cancer and microbial genomics, expression analysis, proteomics and pharmacogenomics, we are inviting applications for one or more tenure-track positions in Bioinformatics at the Assistant or Associate Professor level.

Suitable applicants will hold a Ph.D. in Bioinformatics, Biostatistics, Statistics or related fields, such as Computational Biology or Molecular Biology. Candidates with background in analyses of data from the fields of genomics and/or proteomics of cancer or tumor development and progression or in the analyses of large gene expression data, pattern recognition and neural networks are desired. The successful candidate(s) will conduct independent, externally funded research, collaborate with other VCU investigators in

related fields, and participate in development and instruction of the Bioinformatics Curriculum in VCU Life Sciences. The positions will be located in the Department of Biostatistics and the successful candidate will contribute to the Biostatistics graduate training program by participating in teaching and in the direction of M.S. and Ph.D. student research. We offer competitive salary and benefits. Review of the applications will begin July 15 and will continue until the position(s) is (are) filled.

To apply send CV, statement of research plans, publications (if any) and three letters of reference to: Bioinformatics Search Committee, Virginia Commonwealth University, Department of Biostatistics, 1101 East Marshall Street, Richmond, VA 23298-0032; e-mail: vramesh@vcu.edu

The Virginia Commonwealth University is an Equal Opportunity Employer. Women, minorities, and persons with disabilities are encouraged to apply.

# POSITIONS OPEN

#### SENIOR FACULTY POSITION IN AUTOIMMUNITY Hospital for Special Surgery and Weill Medical College of Cornell University

Junior and senior faculty positions are available for established M.D./Ph.D., Ph.D., or M.D. Investigative Rheumatologists or Immunologists. Applicants should have demonstrated high productivity and an outstanding record of funded research.

Successful applicants will develop a research program relevant to autoimmune rheumatic disease and will participate fully in the educational activities of the Divisions of Research and Rheumatology at the Hospital for Special Surgery (HSS). They will receive faculty appointments at Weill Medical College of Cornell University (WMCCU) and the Research Division of HSS and will be candidates for appointment to the Faculty of Weill's Graduate School of Medical Sciences. Targeted areas of investigation might include genetics of autoimmune disease, antigen presentation, gene regulation, animal models of autoimmune disease, immunoregulation, or immune effector mechanisms.

Located on Manhattan's Upper East Side, HSS is renowned for outstanding research in the pathogenesis of systemic autoimmune disorders. The HSS faculty includes members of the Immunology Program of the Graduate School, an active Ph.D. training program with 34 faculty members from HSS, WMCCU, and Sloan-Kettering Institute. New state-of-the-art laboratories are available, and the Hospital has shared core facilities as well as extensive clinical and DNA registries to support basic research in rheumatic diseases. The recent opening of the Mary Kirkland Center for Lupus Research provides new funding opportunities for basic Scientists with a specific focus on SLE.

Applicants should submit a brief description of research interests; curriculum vitae; and references by August 15, 2001, to: Peggy Crow, M.D., Chair, Search Committee, Hospital for Special Surgery, 535 East 70th Street, New York, NY 10021. Email: crowm@hss.edu; Telephone: 212-606-1397.

Three federally funded POSTDOCTORAL PO-SITIONS are available immediately at the University of Arkansas for Medical Sciences (UAMS). Applicants must have Ph.D. in biochemistry, molecular biology, cell biology, genetics, or related areas. (1) Biotin research: Study biotin nutrition at the cellular and molecular level. Research will focus on biotin transport and gene expression. Curriculum vitae and three references to: Donald Mock, M.D., Ph.D., Department of Biochemistry and Molecular Biology, UAMS, Slot 516, 4301 West Markham, Little Rock, AR 72205. FAX: 501-603-1146; e-mail: mockdonaldm@uams.edu. (2) Genetic studies of osteoporosis: Identify mouse and human genetic loci associated with low bone density in aging. Curriculum vitae and three references to: Robert J. Shmookler Reis, Ph.D., UAMS/VA Medical Center, Research 151, 4300 West Seventh Street, Little Rock, AR 72205. FAX: 501-257-5578; e-mail: reisrobertjs@uams.edu. (3) Dysregulation of recombination and genomic instability in cancer: Study roles of homologous recombination and telomere maintenance in oncogenesis. Curriculum vitae and three references to: Robert J. Shmookler Reis (as above).

POSTDOCTORAL POSITION available immediately for an individual with a background in reproductive biology, radioimmunoassay, and bioanalytical methods to study the pharmacology and metabolism of hormonal contraceptives in animal and *in vitro* systems. Send curriculum vitae with names and addresses of three persons to whom letters of reference can be sent and a letter of interest to: Dr. Kalyan Sundaram, Population Council, 1230 York Avenue, Box 273, New York, NY 10021. FAX: 212-327-7678; e-mail: ksundaram@popcouncil.org.

Affirmative Action/Equal Opportunity Employer; male/ female.

# **POSITIONS OPEN**

## MASSACHUSETTS GENERAL HOSPITAL HARVARD MEDICAL SCHOOL

POSTDOCTORAL POSITIONS are available in the Division of Infectious Diseases at the Massachusetts General Hospital/Harvard Medical School to work on NIH-funded research projects focused on pathogenesis and vaccine development for enteric infections, particularly cholera and *E. coli* O157 (see website: http://www.mgh.harvard.edu/depts/ id/sbcint.html). Especially seeking candidates with experience/interest in molecular biology, studies of gene regulation, and genomics. Send curriculum vitae, description of research interests, and names of three references to: Stephen B. Calderwood, M.D., Chief, Division of Infectious Diseases, Massachusetts General Hospital, 55 Fruit Street, Boston, MA 02114. Massachusetts General Hospital is an Equal Opportunity Employer and strongly encourages applications from women and minorities.

Two **POSTDOCTORAL POSITIONS** are available immediately for candidates with keen interest to understand microbial pathogenesis. Selected candidates will study the molecular and cellular aspects of the cell-cell communication between Group A streptococci and human pharyngeal cells and their role in Group A streptococcal pathogenesis. Ph.D. with one to two years of relevant experience. Knowledge of protein purification is very helpful. Send curriculum vitae, brief résumé, and names of three references to: Vijay Pancholi, Ph.D., Associate Member, Public Health Research Institute (PHRI), 455 First Avenue, New York, NY 10021. Telephone: 212-578-0814; FAX: 212-578-0804; e-mail: pancholi@phri.org.

A POSTDOCTORAL POSITION is available immediately to develop and apply new technologies for SNP genotyping and discovery and mutation detection for studies of complex diseases and disorders. Individuals with experience in assay development, genomics/bioinformatics, sequencing, and microarray are preferred. Please respond by e-mail or FAX with curriculum vitae and three references to: Ms. Kelly Bowery, P.O. Box 980424, Virginia Institute for Psychiatric and Behavioral Genetics, Virginia Commonwealth University, Richmond, VA 23298-0424. Telephone: 804-828-5360; FAX: 804-828-3223; e-mail: kbowery@vcu.edu. Equal Opportunity Employer.

### POSTDOCTORAL RESEARCH POSITION UNIVERSITY OF WASHINGTON

Postdoctoral position available to study molecular mechanisms of kidney organogenesis. Project entails an exciting blend of state-of-the-art genomics and cell/molecular biology. Ph.D. or M.D. and strong background in molecular and/or cell biology are required. Send curriculum vitae and three references to: **Dr. Lynn Schnapp, Box 359762, 325 Ninth Ave**nue, University of Washington School of Medicine, Seattle, WA 98104. E-mail: lschnapp@ u.washington.edu.

**RESEARCH** ASSOCIATES/INSTRUC-TORS: Positions are immediately available to study molecular biology and immunology of mammalian fertilization. The goal is to examine structurefunction relationship and develop contraceptive vaccine. Ph.D. degree with demonstrated experience in molecular biology required. Send résumé to: **Professor Rajesh K. Naz, Medical College of Ohio, HED 211, 3055 Arlington Avenue, Toledo, OH 43614. Telephone: 419-383-3502.** 

**POSTDOCTORAL POSITION** is available immediately to study the role of MDM2 signaling in cancer/cardiac cell survival. Strong background in one or more of the following areas is highly desirable: apoptosis, signal transduction, cardiomyocytes, and/ or adenoviruses. Send curriculum vitae along with names of references to: Dr. Peter Erhardt, Boston Biomedical Research Institute, 64 Grove Street, Watertown, MA 02472. E-mail: erhardt@bbri. org.

# **POSITIONS OPEN**

#### TWO NIH-FUNDED POSTDOCTORAL POSITIONS AVAILABLE IMMEDIATELY

(1) Involves investigations into the neurotoxic interactions between methamphetamine and HIVrelated proteins Tat and gp120. Applicants should have strong background in neurochemistry and be competent in small animal stereotaxic brain surgery and/or cell culture. (2) Will focus on the role of dopamine in both toxin-induced and genetic models of Huntington's disease. Techniques include small animal surgery, fluorescent dye assays, cell culture (primary and transfected neuronal cell lines), and behavioral testing. Send curriculum vitae and names of three references to: Dr. William F. Maragos, Neurology Department, University of Kentucky, KY Clinic L-445, Lexington, KY 40536-0284. E-mail: maragos@pop.uky.edu; Telephone: 859-323-2522 or 859-323-0200; FAX: 859-323-5943. Affirmative Action/Equal Employment Opportunity Employer.

## NEUROPROTEOMICS AND PARKINSON'S DISEASE

**POSTDOCTORAL FELLOWSHIP** at Vanderbilt University Medical Center available July 1, 2001. Will apply novel neuroproteomics methods to identify proteins in tissue sections (imaging MS; see *Nature Medicine* 7:493, 2001) whose expression is altered in Parkinson's disease. Applicants should possess excellent chemistry or neuroscience and communication skills. Send curriculum vitae and the names of three references to both: Dr. Richard Caprioli; e-mail: r.caprioli@vanderbilt.edu and Dr. Ariel Deutch; e-mail: ariel.deutch@mcmail.vanderbilt.edu. Applicants must be U.S. citizens or permanent residents. Vanderbilt University is an Equal Employment/Affirmative Action Employer.

## POSTDOCTORAL POSITION Yale University

Available immediately in the laboratory of **Dr. Peter M. Glazer** to study gene targeting and genetic therapy using sequence-specific DNA binding ligands including triple helix-forming oligonucleotides. Projects will focus on cellular and molecular mechanisms of gene targeting and gene modification with an emphasis on relevant DNA repair pathways and on structure/function analyses (for reference, see K. M. Vasquez et al., *Science* 290:530–534, 2000; H. J. Datta et al., *J. Biol. Chem.* 276:18018–18023, 2001; P. P. Chan et al., *J. Biol. Chem.* 274:11541–11548, 1999; L. Lacroix et al., *Biochemistry* 38:1893–1901, 1999).

Please send curriculum vitae and references to email: lisa.cabral@yale.edu.

#### POSTDOCTORAL POSITION

Postdoctoral position is available to study steroid hormone control of breast cancer growth and cell function. Highly motivated candidates must have a Ph.D./M.D. degree with experience in cell culture, molecular biological techniques, and animal (mice) models. A familiarity with current knowledge of the steroid/retinoid/vitamin D receptor superfamily mechanisms of gene regulation would be highly desirable but not essential. For further information, contact: Dr. Neil Sidell, Emory University School of Medicine, Department of Gynecology and Obstetrics, Division of Research, 1639 Pierce Drive, WMB 4303, Atlanta, GA 30322. E-mail: nsidell@emory.edu.

**POSTDOCTORAL POSITION** to study Srcclass tyrosine kinases in synapse formation and function at the neuromuscular junction. Molecular and cellular approaches will be used to clarify the (1) regulation of Src kinases by innervation and extracellular factors, (2) signaling mechanisms involving Src kinases, and (3) role of Src kinases in synaptogenesis and synaptic transmission at the neuromuscular junction. See JNS 21:3806. Great scientific and living environments. Dr. Sheridan L. Swope, EPO8 Research Building, Georgetown University Medical Center, 3970 Reservoir Road, Washington, DC 20007. E-mail: swopes@giccs.georgetown.edu.



# Director, Environmental Technology Laboratory (ETL)

(A Senior Executive Service Position in the Federal Government)

# Office of Oceanic & Atmospheric Research National Oceanic and Atmospheric Administration, Boulder, Colorado \$122,083 - 133,700 annually • NOAA#01-06

The applicant selected for this position will be responsible for planning, coordinating, and evaluating the operation of the Laboratory; providing general guidance to scientific program managers; determining the relative priorities of different research tasks and allocating resources accordingly; identifying and exploiting new and promising lines of research; appraising the progress of the research; and authorizing and conducting negotiations with other agencies for the conduct by ETL of appropriate other-agency research tasks. The program of the laboratory involves the development and research application for a wide range of technologies (e.g. optical, infrared, submm, microwave, and lower radio frequency electromagnetic wave systems, and acoustic wave systems) to active and passive remote sensing of the atmosphere and oceans.

- Broad understanding of the theory, application and current state of remote sensing of atmospheric and oceanic parameters by active and passive electromagnetic and acoustic techniques application of remote sensing in improved understanding and forecasting of atmospheric sensing of atmospheric and/or oceanographic phenomena. This expertise must be applicable to the improvement of predictions in weather and marine service, climate, and air quality. Incumbent must be able to conceive, initate and direct program to research and develop remote sensing techniques.
- 2. Demonstrated competence in the physical sciences sufficient to perceive complex problems in broad perspective to coach and infuse ideas, and to participate meaningfully in direction and evaluation of atmospheric and oceanographic research. Competence in atmospheric science is required to meaningfully direct the study of atmospheric processes to improve weather forecasting.
- Demonstrated ability to perform senior-level research with particular emphasis on remote sensor development and application to the environmental sciences, and to publish significant research findings in refereed literature.

# Please contact 301/713-0530, x106 (301/713-0973[TDD] (Internet: address: dede.epstein@noaa.gov) for an announcement package, including



mailing instructions—referring to announcement number - ORyou may access the entire full-text vacancy from NOAA's Executive Resources Homepage (see below). Incomplete applications will not be considered. http://www.rdc.noaa.gov/~hrmo/er-home.htm This vacancy will close on July 20, 2001 NOAA Values a Diverse Workforge and is an Equal Decolvert



# Infinite Discoveries Unparalleled Opportunities

The pharmaceutical market is rapidly changing; evolving and maturing everyday as new ways and tools are being developed to improve the quality of human life. Ideas, outstanding performance and the growth and caring of our people are at the core of our value system. Our future is in the hands of the individuals who make up our company.

# Senior Staff Scientist

The successful candidate must have a good working knowledge of molecular biology and cell biology. A familiarity with various assay technologies, receptor binding, kinetic enzyme assays, and molecular cloning techniques is required. The ability to adapt to new technologies and state-of-the-art HTS technology is essential. Desired experience: MS with minimal 3 years industry experience in the fields of molecular biology and cell biology.

Our commitment to our employees includes an excellent salary and a comprehensive benefits package. Please note that all positions are located in Wilmington, Delaware. To apply, please forward your resume to: DuPontpharma@hiresystems.com or to DuPont Pharmaceuticals Company, P.O. Box 549262, Suite 278, Waltham, MA 02453. Please include Job Code: LD:LZ/VRF101HS. EOE.



**DuPont Pharmaceuticals Company** 

# HEAD OF BIOLOGY

A pioneer in the field of proteomic-enabled drug discovery, MDS Proteomics' goal is to significantly improve the productivity of the pharmaceutical industry in discovering and developing new medicines for the treatment of disease. The company has developed exceptional capabilities in proteomics systems, technology, supercomputing, drug screening and biology and is uniquely positioned to build an effective bridge between gene discovery and therapeutic development. This distinctive capability is being used in collaborations with pharmaceutical and biotechnology companies as well as for the development of the company's own product pipeline. In its proteomics "facilities" in Europe and North America, the company focuses on drug target discovery and validation for both antibody and small molecule therapeutics. MDS Proteomics is a majority-owned subsidiary of MDS Inc.

As the Head of Biology for MDS Proteomics, you will be responsible for the coordination of research programs and innovative approaches to therapeutic target discovery. You will provide leadership for talented interdisciplinary teams of scientists with skills in cell and molecular biology, protein chemistry, mass spectrometry, and bioinformatics. Your efforts to define human biology by application of our most advanced proteomic platform will be realized in the discovery of new drug and antibody targets.

Location: Appointments are available at the level of Vice-President at both our North American (Toronto) and European (Odense) locations. Additional positions are available as described at our web site www.mdsproteomics.com.

**Requirements:** Qualified candidates will have earned a PhD and/or MD, and possess a strong background in one or more of oncology, metabolic disease, signal transduction and cell biology. Applicants will have at least ten (10) years post-doctoral experience, during which time they will have distinguished themselves with a track record of peer-reviewed publications as evidence for their scientific innovation and industry. Success in project management and pre-clinical development in a biotech or pharma setting is essential.

We offer a competitive compensation and benefits package, and the promise of a stimulating scientific and collegial environment. For consideration, please forward your resume and cover letter stating "Head of Biology" to: MDS Proteomics, Attn : HR/MM, 75 International Blvd., Toronto, ON., Canada M9W 6L6; Email: hr@mdsproteomics.com; or Fax : (416)213-4199.



Leading the Science of Proteomics, Guiding the Discovery of New Medicines

# EPILEPSY FOUNDATION<sup>®</sup> RESEARCH GRANTS AND FELLOWSHIPS

GRANTS

The Epilepsy Foundation awards grants and fellowships for cutting-edge research into the causes of epilepsy. Program goals include understanding basic mechanisms, developing new therapeutic approaches, understanding the behavioral and psychosocial aspects of having epilepsy, and encouraging the professional growth of scientists and healthcare professionals.

The Epilepsy Foundation supports Junior Investigator Research Grants and training fellowships at the post-doctoral, predoctoral, and student levels. We are currently inviting applications for the funding cycle beginning July 1, 2002.

For further information, including applications and deadlines, please visit our website: www.epilepsyfoundation.org

> Epilepsy Foundation Research Department 4351 Garden City Drive Landover, MD 20785-2267 phone: (301) 459-3700 fax: (301) 577-2684 e-mail:grants@efa.org

# The Science Meetings & Announcements Database



# GRANTS

# **GRANT ANNOUNCEMENT**

Berkeley Citizens Humane Commission is accepting Grant Applications from Research Organizations Engaged in Developing

# ALTERNATIVES TO ANIMAL RESEARCH

BAYER CORPORATION and the CITY OF BERKELEY have entered into a 30-year development agreement. Under an amendment to the agreement, in 2001 Bayer will award a total of \$25,000 to a research organization engaged in developing alternatives to animal research. The Berkeley Citizens Humane Commission is authorized by the development agreement to select grant recipients in consultation with Bayer. Only U.S. organizations will be considered for the grant.

How to apply: There is no formal application form. To apply, submit a resume for the researcher in charge, a description of the organization and any previous grants received, a description of the work being done (or contemplated), a description of how grant funds would be used, and an assessment of the work's potential to replace one or more animal tests. Any grantee will be expected to submit two reports: an interim report on the status of the funded research, due six months after the date of the grant, and a final report within one year of the grant accounting for expenditure of all funds.

Deadline to submit applications: OCTOBER 15, 2001

Send applications to: Nancy L. Ober, Berkeley Citizens Humane Commission, 1595 Le Roy Ave., Berkeley, CA 94708. Or e-mail to: nlober@mindspring.com. Direct telephone inquiries to Nancy Ober at 415-677-3127

# ENDOWED CHAIR IN CHEMICAL BIOLOGY

The University of Texas Medical Branch at Galveston (UTMB) is seeking outstanding candidates for a newly endowed Robert A. Welch Chair in Chemistry. Appointment of our first Chair led to the development of the Sealy Center for Structural Biology, which now consists of 13 primary and 19 adjunct faculty. The goal of this recruitment is to appoint a highly motivated and dynamic individual to the Chair to provide the scientific leadership in the development of a Center in Chemical Biology. The successful applicant should be an outstanding chemist with research interests at the chemistry/biology interface, with a strong record of publication and independent grant support. Individuals employing computational, structure-based, and combinatorial approaches to elucidate novel chemical mechanisms in biology are especially encouraged to apply. The new Chair is expected to play a lead role in recruitment of additional chemical biology faculty. An attractive recruitment package of salary, start-up and newly renovated space will be offered.

The primary appointment is with the Department of Pharmacology and Toxicology. Rich opportunities exist for interactions and affiliation with a number of departments, centers or programs of excellence, in particular, the Sealy Center for Structural Biology, the Sealy Center for Cancer Cell Biology, the Sealy Center for Environmental Health and Medicine, the WHO Center for Tropical Diseases, and the Membrane Protein Program supported by the The Howard Hughes Medical Institute. These and other centers provide a wide variety of core services including: computational biology, mass spectrometry, membrane protein crystallization, NMR, protein expression and purification, recombinant DNA, X-ray crystallography and biophysical solution chemistry.

Interested applicants should submit a curriculum vitae, a summary of research accomplishments and future goals (3-5 pages), and names, addresses and telephone numbers of 5 references to:

James C. Lee, Ph.D. Robert A. Welch Chair in Chemistry Department of Human Biological Chemistry & Genetics The University of Texas Medical Branch 5.138 Medical Research Building Galveston, TX 77555-1055



EO/AA. M/F/D/V. UTMB hires only individuals authorized to work in the United States.

# Facility Head Rocky Mountain Laboratories, Hamilton, Montana Salary Commensurate with Experience/Education

NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DIS-EASES. NATIONAL INSTITUTES OF HEALTH. Doctoral position available for Facility Head to manage the operation, maintenance, repair, upgrading and development of all equipment for DNA sequencing, microarray analysis, DNA chip development, microarray scanning, automated PCR quantitation, proteomics, computing hardware and software analysis (Linux and Unix-based). The incumbent will advise laboratory staff on projects requiring genomic and microarray analyses with collaboration on written projects when appropriate. The incumbent will also oversee and maintain state-of-the-art awareness about new hardware and software technologies pertinent to the laboratory's scientific directives and goals.

Please send CV and three letters of reference to:

James Musser, M.D., Ph. D. Chief, Laboratory of Human Bacterial Pathogenesis NIAID, NIH Rocky Mountain Laboratories 903 S 4th Street Hamilton, MT 59840 Email: jmusser@niaid.nih.gov

NIH is an Equal Opportunity Employer.

# MEETINGS

# MARCH OF DIMES PRIZE IN DEVELOPMENTAL BIOLOGY

Nominations of candidates are solicited for the seventh annual prize to be awarded in 2002. Please make your recommendations on or before September 14, 2001.

The prize, consisting of a medal and \$250,000, is awarded to investigators whose research has profoundly advanced the science that underlies our understanding of birth defects.

Nomination forms are available upon request from:

Michael Katz, M.D. Vice President for Research March of Dimes Birth Defects Foundation 1275 Mamaroneck Avenue White Plains, NY 10605 Telephone: (914) 997-4555 Facsimile: (914) 997-4560 e-mail: mkatz@modimes.org

The previous recipients were:

2001 - Thomas M. Jessell and Corey S. Goodman 2000 - H. Robert Horvitz
1999 - Richard L. Gardner and Martin J. Evans 1998 - Davor Solter
1997 - David Hogness and Walter Gehring
1996 - Beatrice Mintz and Ralph L. Brinster

# POSITIONS OPEN

## NIH 2001 = [OPPORTUNITY]<sup>N</sup>

Train at the bench, the bedside, or both. The NIH offers **POSTDOCTORAL** and **CLINICAL FELLOWSHIPS** as well as tenure-track positions.

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**POSTDOCTORAL POSITION** in cell biology and physiology of retinal degenerative disease. Two positions are available in the new Cole Eye Institute at the Cleveland Clinic Foundation for POSTDOC-TORAL FELLOWS or RESEARCH ASSOCI-ATES with an interest in understanding the basis of retinal degenerative disease. Our laboratory employs in vitro and animal models of Best macular dystrophy, a juvenile onset-inherited maculopathy, to understand the pathophysiologic process involved in both Best disease and age-related macular degeneration. These studies include analysis of the molecular basis of RPE contributions to the electrooculargram and the formation of drusen. The positions require independent individuals with a strong background in cell biology or physiology. Experience in any of the following areas would be helpful: electrophysiology, microsurgery, histology, molecular biology, or gene therapy. Interested individuals should send/FAX/e-mail their curriculum vitae and the names of three references to: Alan D. Marmorstein, Ph.D., Cole Eye Institute, i-31, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. FAX: 216-445-3670; e-mail: marmora@ccf.org.

#### RESEARCH ASSOCIATE Laboratory of Dr. Broderick CUNY Medical School

Research opportunity in the neurochemical and behavioral processes underlying mechanisms for affective disorders, drugs of abuse and epilepsy, and training in the real-time technique of in vivo microvoltammetry (electrochemistry). Qualifications: M.D. and/ or Ph.D. in neuropharmacology or electrochemistry or related field, e.g., neuroscience, psychology, or electrophysiology. Experience in animal brain stereotaxic surgery; handling animals and injection proce-dures highly desirable. Evidence of skills in writing publishable manuscripts in English also highly desirable. Salary: \$40,000 to \$50,000 commensurate with experience and qualifications. Details at website: http://www.rfcuny.org/hr/pvn. Send letter of interest, curriculum vitae, and names of three professional references to: Dr. Patricia A. Broderick, Physiology and Pharmacology, CUNY Medical School, Room J910, The City College, CUNY, Convent Avenue and West 138th Street, New York, NY 10031. FAX: 1-212-650-7754. Curriculum vitae review begins July 9, 2001.

# STAFF ASSOCIATE

Liaison between data coordinating center and research projects. Design and implement database systems, supervise data entry staff; develop programmed reports and data files for statistical analysis. Knowledge of SPSS or SAS and at least four years of experience in data management required. Bachelor's degree required; higher degree preferred. Contact: Howard Andrews; e-mail: hfal@columbia.edu or send curriculum vitae to: Columbia University, 1051 Riverside Drive, Unit 47, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.

Molecular Dynamics, APBiotech in Sunnyvale, California, is looking for a MICROARRAY DIREC-TOR. You must posses a Ph.D. in a life science and more than three years of related experience. Please forward résumés to: Professional Staffing, Molecular Dynamics, APBiotech, 928 East Arques Avenue, Sunnyvale, CA 94085. E-mail: jobs.mdyn@ am.apbiotech.com. Equal Opportunity Employer.

# POSITIONS OPEN

# PROTEOMICS, PROTEIN ENGINEERING, AND INFORMATICS

The Programs for Genomic Applications (PGA) at the Massachusetts General Hospital have **POST-DOCTORAL OPENINGS** available in the fields of proteomics, protein-protein interactions, protein engineering for signal detection and deconvolution, novel biosensors, and bioinformatics projects related to these and broader data visualization aims. A strong background in molecular biology and/or informatics is essential; for positions involving protein engineering or proteomics, familiarity with *in vivo* expression systems and basic protein chemistry is also a prerequisite.

# MOLECULAR BIOLOGY/ SIGNAL TRANSDUCTION AUTOMATION

The Programs for Genomic Applications (PGA) at the Massachusetts General Hospital have openings available at several levels for individuals interested in developing robotic methods for implementing many of the core techniques of modern molecular biology including plasmid construction and validation, *in vivo* expression, immunoprecipitation and blot analysis, and diverse functional readouts in mammalian cells. A strong background in molecular biology and/or informatics is essential. Familiarity with or affinity for software coding tools a plus.

software coding tools a plus. Participating faculty: Fred Ausubel, Mason Freeman, Brian Seed, Jack Szostak. Contact: Carol Whooley, Jackson 13, Massachusetts General Hospital, Boston, MA 02114.

POSTDOCTORAL RESEARCH POSITION (MOLECULAR BIOLOGY) is currently available at the Centers for Disease Control and Prevention (CDC) in Atlanta, Georgia. The Poxvirus Section performs research to understand molecular differences between orthopoxviruses in an effort to develop new rapid diagnostics. Platforms will include real-time PCR technologies. Sequencing techniques will be utilized in addition to cloning and expression of gene products. Other fundamental projects may include investigation of function of orthopoxvirus immunomodulatory protein function. Some biochemical analysis in addition to nucleic acid-based techniques will be required. Salary will be competitive and based on experience and publication record. Please send curriculum vitae including publications list and names of three references to: Dr. Inger Damon, CDC, 1600 Clifton Road, N.E. (G-18), Atlanta, GA 30333. E-mail: iad7@cdc.gov.

Developmental neurobiology **POSTDOC-TORAL RESEARCH SCIENTIST** position available starting August 1, 2001, to study the molecular and cellular events that establish embryonic retinal precursor cells. Targeted gene expression, knockdown, and transgenesis will be employed to study determination of retinal fate and acquisition of amacrine phenotypes in *Xenopus*. Must have Ph.D. and experience in molecular biology. Knowledge of developmental biology and/or neuroscience preferred. Send curriculum vitae and three letters of recommendation by July 1, 2001, to: Sally A. Moody, Professor, Department of Anatomy and Cell Biology, George Washington University, 2300 Eye Street, N.W., Washington, DC 20037. E-mail: anasam@gwumc.edu; website: http:// www.gwumc.edu/anatomy/1sallymoody.html.

**POSTDOCTORAL POSITIONS** are available immediately to study organophosphorous antagonism with recombinant enzymes in various drug delivery systems. The project involves generation, expression, and purification of recombinant enzymes and use of drug delivery systems. Candidates should have a Ph.D. in pharmacology, toxicology, or biochemistry. Must be willing to relocate to San Francisco. Please send curriculum vitae and names of three references to: James L. Way, Ph.D., Department of Medical Pharmacology and Toxicology, Texas A&M University, HSC, College Station, TX 77843-1114. FAX: 979-845-0699; e-mail: jlway@tamu.edu.

# **POSITIONS OPEN**

NERVOUS SYSTEM IMMUNOLOGY

**POSTDOCTORAL** openings; start date flexible; NIH funded. Basic and clinical projects: how local neurotransmitters affect immune control, implications for immunotherapy of metastatic brain tumor, MS/EAE, AD, etc. A variety of backgrounds welcome. Apply to: Dr. L. Lampson, Neurosurgery, HarvardMedicalSchool;e-mail:lalampson@ mediaone.net.

#### STAFF SCIENTIST NHLBI, NIH

Staff Scientist position immediately available in the Laboratory of Lymphocyte Biology of the National Heart, Lung, and Blood Institute, National Institutes of Health. The candidate, a Ph.D. or M. D. Scientist with at least three years of postdoctoral research experience and a strong publication record in molecular immunology, will be expected to assist in the development and execution of the laboratory research programs studying mechanisms of T lymphocyte signal transduction in collaboration with the Laboratory Chief. To apply, please send curriculum vitae, bibliography and brief statement of research interests, and have sent three letters of recommendation to: Dr. Barbara E. Bierer, Chief, Laboratory of Lymphocyte Biology, 10 Center Drive, Room 6C208, Bethesda, MD 20892. Telephone: 301-402-6786 (office); e-mail: BiererB@nih.gov. Applications must be received by August 1, 2001. NIH is an Equal Opportunity Employer.

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

**POSTDOCTORAL POSITION** available for studying the role of nuclear myosin I (*Science* 290: 337–341, 2000) in regulating transcription using state-of-the-art cell biology, molecular biology, and biophysical techniques. Experience with transcription, replication, RNA processing, and/or cytoskeletal proteins is especially desirable. Salary negotiable. Please send curriculum vitae and the names of three references to: **Primal de Lanerolle**, **Ph.D.**, **Department of Physiology and Biophysics**, **835** South **Wolcott Avenue (M/C 901)**, **Chicago**, **IL 60612**. **E-mail: primal@uic.edu**. University of Illinois, Chicago, is an Affirmative Action/Equal Opportunity Employer.

# POSTDOCTORAL POSITIONS

Postdoctoral positions available in bacterial chemotaxis and global transcriptional regulation. Both projects cover a wide range of approaches from molecular genetics to biochemistry to structural biology. Expertise in any of these approaches is desirable. Please send curriculum vitae, statement of research interests, and the names of three references to: Dr. Philip Matsumura, University of Illinois at Chicago, Department of Microbiology/Immunology, 835 South Wolcott (M/C 790), Chicago, IL 60612-7344. UIC is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

# POSITIONS OPEN

## POSTDOCTORAL RESEARCHER Directed Evolution and Gene Therapy

A position is immediately available to lead our efforts in reengineering of recombinant viruses for human gene therapy. The project will employ directed evolution to alter virus tropism and other properties for specific therapeutic indications. We are looking for a creative, dynamic individual who enjoys working in a collaborative environment. The ideal candidate will have experience in directed evolution strategies such as error-prone PCR, DNA shuffling, and other techniques for constructing mutated gene libraries. Knowledge of mammalian cell culture techniques, mammalian gene expression, and virology is desirable. Please send curriculum vitae including names, tele-phone numbers, and e-mail addresses of references to: Dr. Daniel W. Pack, MC-712 Box C-3, Department of Chemical Engineering, University of Illinois, 600 South Mathews Avenue, Urbana, IL 61801. E-mail: dpack@uiuc.edu.

# POSTDOCTORAL POSITIONS Medical College of Georgia

Positions are available immediately to study molecular regulation of corneal wound healing and infection. Techniques involved include cell culture, gene transfection, PCR, gene cloning, Western and Northern blotting, DNA microarray, and immunocytochemical staining. Requirements: Ph.D. with experience in cell biology and molecular biology of gene regulation or M.D. with basic knowledge of cell and molecular biology. Send curriculum vitae and names of three references to:

Dr. Fu-Shin Yu Department of Cellular Biology and Anatomy Medical College of Georgia Augusta, GA 30912 E-mail: fushinyu@vision.eri.harvard.edu

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## POSTDOCTORAL POSITION RETROVIROLOGY

Position available for a Postdoctoral Fellow in laboratory studying aspects of HSV infection. Research area will be on interaction of HSV and HIV using molecular probe techniques. Experience with primary cell/viral culture, cell line establishment (including construction of expression vector), or viral gene transfer preferred. The candidates must have an M.D. or Ph.D. or equivalent degree. Job will remain open until filled. Salary commensurate with experience; excellent benefits. Please send curriculum vitae and the addresses of three references to: Dr. Larry Corey, Virology Division, Department of Laboratory Medicine, University of Washington, 1100 Fairview Avenue North, Mailstop D3-100, Seattle, WA 98109 U.S.A. FAX: 206-698-6189; e-mail: lcorey@u.washington.edu. University of Washington is an Affirmative Action/Equal Opporunity Employer.

## POSTDOCTORAL POSITION Wake Forest University School of Medicine

Available immediately to study signal transduction by Gram-negative flagellin. Experience in molecular biology and cell culture essential. Send curriculum vitae and three letters of recommendation to: Dr. Steve Mizel, Department of Microbiology and Immunology, Wake Forest University School of Medicine, Medical Center Boulevard, Winston-Salem, NC 27157-1064. Wake Forest University is an Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** is available immediately to study interactions of angiogenic growth factors and endothelial cells with matrix proteins. Candidates should have a Ph.D. in biochemistry or a related field and experience in cell and molecular biology will be helpful. Send curriculum vitae to: **Charles W. Francis, M.D., University of Rochester Medical Center, Vascular Medicine Unit, Box 610, Rochester, NY 14642.** An Equal Opportunity/ Affirmative Action Employer.

# POSITIONS OPEN

POSTDOCTORAL POSITION available immediately at the Molecular Neuropharmacology Laboratory, Department of Neurology, Boston University School of Medicine, to investigate the neurobiological function of adenosine receptors in basal ganglia and in Parkinson's disease/drug addiction models. Transgenic and pharmacological approaches are being used to explore adenosine-dopamine interactions as well as novel neuroprotective role for adenosine receptors at the molecular, cellular, and behavioral levels. Please send curriculum vitae and the names of three references to: Dr. Jiang-Fan Chen, Department of Neurology, Boston University School of Medicine, 715 Albany Street, 314, Boston, MA 02118. E-mail: chenjf@bu.edu; FAX: 617-638-5354.

POSTDOCTORAL POSITION is available immediately to study the molecular mechanisms of arrhythmias during heart failure using confocal imaging, patch clamp electrophysiology, and molecular biology techniques. Candidates should have experience in patch clamp electrophysiology. Interested individuals should send curriculum vitae and name/ contact information for three references to: Dr. L. F. Santana, Department of Physiology and Biophysics, University of Washington, Box 357290, Seattle, WA 98195-7290. E-mail: Isantana@neurobio. upr.clu.edu. The UW is an Equal Opportunity Employer.

# GLOBAL OPPORTUNITIES

#### FACULTY POSITION School of Chemical Engineering Seoul National University

We invite applications from highly qualified individuals in the area of semiconductor and/or display materials. Requirements are a Ph.D. in any discipline and a strong record of research accomplishments. A background in physics and postdoctoral experience is preferred. The successful candidate will be expected to independently develop a strong, externally funded research program and teach undergraduate and graduate courses. The position is available from as early as September 1, 2001. Applicants will have to submit the required documents directly to the Administration Office of Seoul National University (website: http://www.snu.ac.kr) when the official procedure starts in this summer. In the meantime, interested applicants are encouraged to send curriculum vitae, a list of publications, and a research plan to: Chair of Faculty Search Committee, School of Chemical Engineering, Seoul National University, Seoul 151-744, Korea. E-mail: honghlee@snu.ac.kr; Telephone +82-2-880-7403; FAX: +82-2-888-1604.

#### FREELANCE EDITOR

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# FELLOWSHIPS

#### ADVANCED AIDS CLINICAL RESEARCH FELLOWSHIP

Beginning July 2001; two- to-three-year privately funded combined clinical and laboratory Research Training Fellowships at the Center for AIDS Research at Stanford University. The bench research program will have a focus on antiviral therapy and/or viral resistance in HIV infection, whereas the clinical work will be on antiviral therapy. M.D. trainees will already be trained in clinical infectious diseases, whereas Ph.D. trainees should already have experience in relevant HIV research. The Center is affiliated with the NIAID AIDS Clinical Trials group. Interested applicants contact: Thomas C. Merigan, Jr., M.D., Director, Center for AIDS Research at Stanford, S-156, Stanford Medical Center, Stanford, CA S4305-5107. Stanford University is an Equal Opportunity Employer and welcomes applications from women and minorities.



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