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# NEW PRODUCTS

## KIT FOR MOUSE ANTIBODIES ON MOUSE TISSUES

The Mouse-on-Mouse Iso-IHC Kit offers immunohistochemical (IHC) staining with mouse primary antibodies on mouse tissues. The kit's exclusive detection system delivers strong, specific staining with no background. Mouse monoclonal antibodies

### InnoGenex

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can now achieve outstanding IHC staining results on routinely processed mouse tissue sections. Any mouse antibody preparation can be used because a proprietary biotin-labeling reagent labels only antibodies, even in the presence of contaminating proteins. And an exclusive MouseBlock reagent eliminates background staining due to endogenous tissue components. The kits are available with a choice of chromogen/substrate.

## HIGH-YIELD PROTEIN SYNTHESIS

PROTEINscript II and PROTEINscriptPRO Kits are optimized for the transcription of DNA into RNA followed by the robust translation of the produced RNA into protein. These kits can be used to translate either eukaryotic or prokaryotic proteins and are some of the highest yielding, most flexible protein synthesis kits available. Either linear or supercoiled DNA or unpurified polymerase chain reaction products can be used as a template for protein synthesis.

### Ambion

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## FLUOROMETER

The VICTOR F fluorometer is an advanced detector for fluorescence-based assays on microplates that is suitable for both endpoint and kinetic assays. It accepts all types of microplates with between six and 864 wells. It can be used with standard plates, black or white opaque plates, filter plates, membranes, filters, slides, Petri dishes, and Terasaki plates.

### EG&G Wallac

For more information call +358 2 2678111 or **circle 146** on the Reader Service Card

Nonstandard configurations can be defined using the instrument's 32-bit Windows workstation software. The instrument is suitable for cell-based assays, molecular biology applications, environ-

mental testing, and toxicology applications, offering specialties such as a scanning function and top and bottom fluorescence measurement. For cell ion-channel studies, dual ratio measurements can be performed. Delays and repeats can be specified by plate, row, or well.

## AIR LINE DRYERS

Air lines that contain excess moisture can reduce the life of every connected instrument and compromise data. The HD Series Heatless Dryers keep the air used in instruments dry. The units provide a fully automatic, continuous flow of dry air, maintaining a dew point as low as  $-50^{\circ}\text{C}$ . The units install in minutes and operate for years without

### Perma Pure

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maintenance. They rely on the pressure of the air supply to regenerate their drying agent. They are about the size of a dictionary, compact enough to fit easily onto existing air output hardware.

## TEFLON REACTOR BLOCKS

FlexChem Teflon Reactor Blocks are designed for high-temperature chemistries in performing high-throughput solution and solid-phase synthesis of small molecules. The reactor blocks are fabricated from pure Teflon and are available in both 96- and 48-well formats. They come ready to use with a replaceable Teflon filter (30-

micron pores) inserted into the bottom of each well. The 96-well block has a well volume of 1.9 ml, while the 48-well block has a well volume of 4.75 ml for larger-scale synthesis. Chemistries that require temperatures above  $100^{\circ}\text{C}$  or that are incompatible with polypropylene can be conducted in them with confidence. The reactor blocks are designed to be reused after cleaning and replacement of the Teflon filters.

## IR FIBER OPTICS FOR REMOTE SAMPLING

These infrared (IR) fiber optics are suitable for analyzing samples that are not the optimum shape or size to fit in Fourier transform-IR sample compartments or that do not conform to traditional sampling accessories. This offers enormous flexibility for applications involving hazardous environments, samples that produce toxic vapors, reaction monitoring, restricted access sampling vessels, nondestructive sampling, and oddly shaped samples. The rugged probes, cables, and optical interface have been optimized to give double the throughput and sensitivity of previous versions.

### Spectra-Tech

For more information call 203-926-8998 or **circle 149** on the Reader Service Card

## LITERATURE

*Lynx Tissue Processor* describes a device that can reduce sample preparation cost and time and improve results. Primary uses of the instrument include ultrastructural studies, extremely hard tissues (such as undecalcified bone), high-resolution light microscopy, immunohistochemistry, dehydration for scanning electron microscopy, and deparaffinization. The programmable, enclosed benchtop unit features stainless steel working surfaces.

### Electron Microscopy Sciences

For more information call 215-646-1566 or **circle 150** on the Reader Service Card

### Robbins Scientific

For more information call 408-734-8500 or **circle 148** on the Reader Service Card

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS of any products or materials mentioned is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Reader Service Card and placing it in a mailbox. U.S. postage is free.

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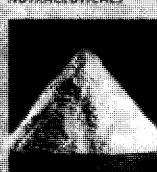
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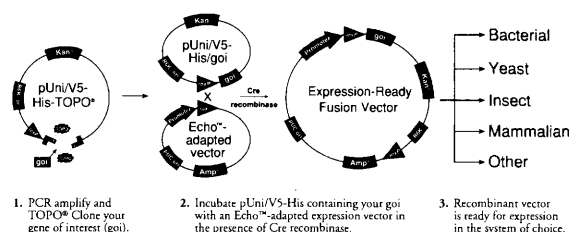
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## THE CANON NATIONAL PARKS SCIENCE SCHOLARS PROGRAM

*"Creating the next generation of environmental scientists"*

A collaboration among

Canon U.S.A., Inc.

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National Park Foundation

American Association for the Advancement of Science

The Canon National Parks Science Scholars Program will award scholarships to eight doctoral students in 2000. Each student selected will receive \$25,000 per year for up to three years to conduct research in the national parks. The Program is underwritten by Canon U.S.A., Inc.

The 2000 competition will focus on four research topics within the biological, physical, social and cultural sciences. The research topics are of critical importance to the management of the National Park System and selected by the National Park Service. Students applying for 2000 scholarships must submit dissertation proposals that address these topics.

Visit <http://www.nps.gov/socialscience/waso/acts.htm> for an application and guidelines, or contact Dr. Gary Machlis, Program Coordinator, Canon National Parks Science Scholars Program, Natural Resource Stewardship and Science, National Park Service, 1849 C Street, NW (MIB 3127), Washington, DC 20240, [gmachlis@uidaho.edu](mailto:gmachlis@uidaho.edu).

Applications are due 1 June 2000. Winners will be announced in early August 2000.



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### POSITIONS OPEN

#### CHAIR, DEPARTMENT OF CHEMICAL ENGINEERING CASE WESTERN RESERVE UNIVERSITY

The Case School of Engineering is seeking an outstanding leader to become the Chair of the Department of Chemical Engineering. The new Chair will serve as the academic, research, and administrative leader of the Department. This individual must be committed to excellence, must demonstrate strong leadership and interpersonal skills, should be an effective advocate for the Department, and be able to attract top new faculty and additional resources. A documented record of excellence in both teaching and research is an essential qualification. We welcome outstanding candidates at all senior ranks. Currently, the Chemical Engineering Department serves over 40 graduate students and 150 undergraduate majors. Its 13 faculty have strong, well-established research programs in fuel cells, advanced electrodeposition, materials synthesis, microfabrication and sensors, polymer microdevices, particle and colloidal processes, and process control. The faculty is active in major interdisciplinary research centers in materials, sensors, and electrochemistry and in integrated programs with the Weatherhead School of Management. The new Chair will continue to build upon existing strong ties with the Macromolecular and Materials Science Departments and develop new ties to other areas of excellence, including the life sciences. The Chair will have the opportunity to expand the Department and its programs. As part of the \$150 million "Campaign for the Case School of Engineering," the Department has assembled a Development Committee of dedicated alumni and, as a result of these activities, the Department is now the beneficiary of two newly endowed chairs. The new Chair will be working closely with the Development Committee and the Dean to build on these successful efforts. Case Western Reserve University is a diversified private university with 9,800 students (undergraduate and graduate) from all 50 states and 101 countries. CWRU is located in the center of Cleveland's vibrant cultural district and medical hub. The immediate region is home to a broad industrial base, extensive recreational activities, and an unusually wide range of artistic, cultural, and musical opportunities. The duties of the new Chair will begin in the 2000-2001 academic year. Please send applications and nominations (including curriculum vitae and the names of at least three references) to: Professor Eric Baer, Search Committee Chair, c/o Dean of The Case School of Engineering, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-7220. Website: <http://cheme.cwru.edu/>. In employment as in education, CWRU is committed to Affirmative Action and Equal Opportunity.

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

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

Carnegie Mellon's College of Engineering seeks to add a FACULTY MEMBER at any level to teach and do research in air pollution and atmospheric chemistry, including fine particles, urban and regional air pollution, and global change. Appointments possible in Mechanical, Civil and Environmental, or Chemical Engineering, or jointly with Engineering and Public Policy. Résumé and list of references to: Professor Cliff Davidson, 123E Porter Hall, Carnegie Mellon University, Pittsburgh, PA 15213.

### POSITIONS OPEN

#### FACULTY POSITION IN PHYSICAL OCEANOGRAPHY OLD DOMINION UNIVERSITY Department of Ocean, Earth, and Atmospheric Sciences

Old Dominion University invites applications and nominations for a position in physical oceanography at the ASSOCIATE or FULL PROFESSOR level. Candidates with demonstrated ability to teach and do research in physical oceanography are sought to contribute to the educational and research programs in the Department of Ocean, Earth, and Atmospheric Sciences (website: [www.ocean.odu.edu](http://www.ocean.odu.edu)). Superior candidates of international stature who merit appointment at the level of Full Professor will be considered for the Samuel L. and Fay M. Slover Chair in Oceanography. The Department and the Commonwealth Center for Coastal Physical Oceanography (website: [www.ccpo.odu.edu](http://www.ccpo.odu.edu)) provide unique opportunities to focus on physical oceanographic processes and their relationship to other ocean sciences. The Department and Center are comprised of oceanographers who address all aspects of the ocean environment.

The position is open to individuals who have a broad and strong background in physical oceanography and related fields and are interested in establishing an internationally recognized program in physical oceanography. The successful candidate will have a Ph.D. in oceanography or a related science; have a record of significant research, publication, and teaching; and have a demonstrated ability to attract external funding. Interaction with faculty in the Department of Ocean, Earth, and Atmospheric Sciences and other departments at Old Dominion University is desired.

Applicants should send a complete curriculum vitae, names of three references, a statement of research interests, and an e-mail address to: Chairman, Search Committee, Center for Coastal Physical Oceanography, Department of Ocean, Earth, and Atmospheric Sciences, Crittenton Hall, Old Dominion University, Norfolk, VA 23529 U.S.A. Nominations for this position should be sent to the same address. Review of applications will begin February 15, 2000, and continue until the position is filled.

Old Dominion University is an Affirmative Action/Equal Opportunity Institution and requires compliance with the Immigration Reform and Control Act of 1986.

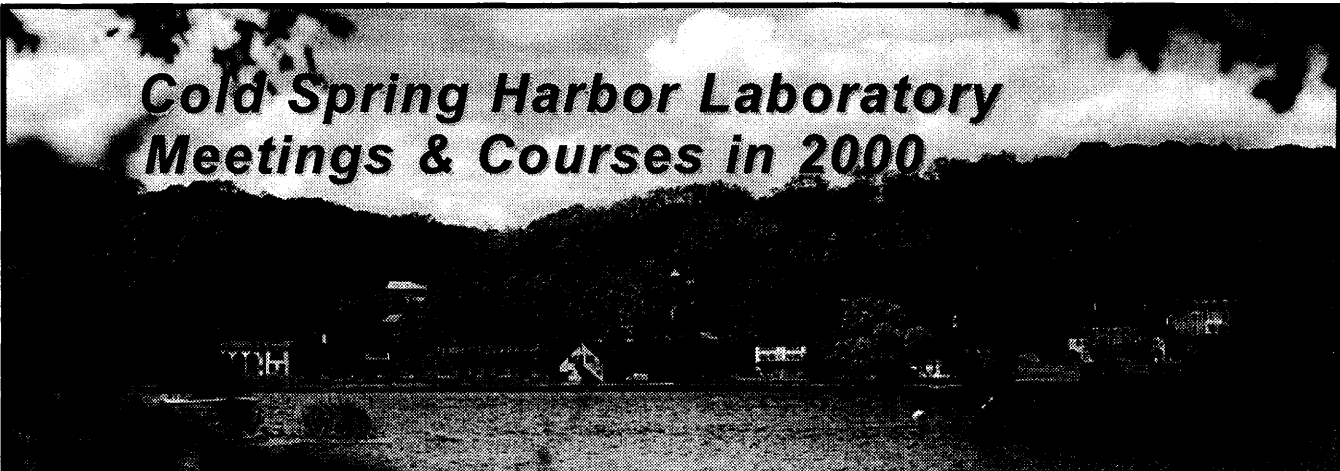
#### FACULTY POSITION IN CELLULAR OR MOLECULAR BIOMECHANICS University of Michigan, Ann Arbor

The Department of Mechanical Engineering and Applied Mechanics at the University of Michigan, Ann Arbor, invites applicants for tenure-track faculty positions in emerging areas, such as cellular and molecular biomechanics and biophysics. Applications are welcomed from individuals with diverse backgrounds, including those outside of traditional engineering but whose research concerns the manipulation and measurement of mechanical properties of cells, biomolecules, or biopolymers. Applicants should have an earned Ph.D. in biophysics, engineering, or related fields. Candidates should have a demonstrated record of conducting independent research and the potential for building a vigorous and innovative program of teaching and research. The selected candidate is expected to teach at both the undergraduate and graduate levels. Applications will be reviewed upon receipt until April 30, 2000.

All applicants should submit four copies of a detailed résumé; cover letter, which includes a statement of research and teaching interests; and the names of at least four references to:

Professor Gretar Tryggvason  
Mechanical Engineering and Applied Mechanics  
University of Michigan  
2250 G.G. Brown Building  
Ann Arbor, MI 48109-2125  
Website: <http://www.engin.umich.edu/dept/meam/>

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# Cold Spring Harbor Laboratory Meetings & Courses in 2000

## Meetings

### **Zebrafish Development & Genetics**

**April 26 - 30**

*Abstract Deadline - February 2*

Michael Brand, Marnie Halpern, John Kuwada,  
Christine Thisse, Leonard Zon

### **Molecular Chaperones & the Heat Shock Response**

**May 3 - 7**

*Abstract Deadline - February 9*

Elizabeth Craig, Carol Gross, Arthur Horwich

### **Genome Sequencing & Biology**

**May 10 - 14**

*Abstract Deadline - February 16*

Mark Boguski, Steve Brown, Pui-Yan Kwok

### **The Cell Cycle**

**May 17 - 21**

*Abstract Deadline - February 23*

Frederick Cross, Stephen Elledge, J. Wade Harper, Jim Roberts

### **Retroviruses**

**May 23 - 28**

*Abstract Deadline - March 1*

Jonathan Stoye, John Young

### **65th Symposium: Biological Responses to DNA Damage**

**May 31 - June 5**

*Abstract Deadline - March 8*

Bruce Stillman

### **Cancer Genetics & Tumor Suppressor Genes**

**August 16 - 20**

*Abstract Deadline - May 24*

Terri Grodzicker, Douglas Hanahan, David Livingston, Scott Lowe,  
Bruce Ponder, Carol Prives

### **Molecular Genetics of Bacteria & Phages**

**August 22 - 27**

*Abstract Deadline - May 31*

Tania Baker, Alan Grossman, Thomas Silhavy

### **Mouse Molecular Genetics**

**August 30 - September 3**

*Abstract Deadline - June 7*

Richard Behringer, Carmen Birchmeier, Maja Bucan,  
Richard Harvey

### **Translational Control**

**September 6 - 10**

*Abstract Deadline - June 14*

Alan Hinnebusch, Michael Mathews, Stuart Peltz

### **Dynamic Organization of Nuclear Function**

**September 13 - 17**

*Abstract Deadline - June 21*

Thomas Cremer, Robert Goldman, Pamela Silver, David Spector

### **Axon Guidance & Neural Plasticity**

**September 20 - 24**

*Abstract Deadline - June 28*

Tobias Bonhoeffer, Marc Tessier-Lavigne, Larry Zipursky

### **Gene Therapy**

**September 25 - 29**

*Abstract Deadline - July 5*

Jeffrey Leiden, Margaret Liu, Gary Nabel, James Wilson

### **Germ Cells**

**October 5 - 8**

*Abstract Deadline - July 12*

Geraldine Seydoux, Chris Wylie

### **Human Origins**

**October 25 - 29**

*Abstract Deadline - August 2*

Michael Brown, Luca Cavalli-Sforza, Aravinda Chakravarti,  
Colin Renfrew, Christopher Stringer, Antonio Torroni,  
Douglas Wallace

## Biotechnology Conferences

### **Targets & Molecules:**

#### **The Science of Drug Discovery**

**March 8 - 10**

*Abstract Deadline - January 14*

Jan Witkowski, David Stewart, Bruce Stillman

#### **Therapeutic Opportunities in**

#### **Neurodegenerative Diseases**

**November 30 - December 3**

*Abstract Deadline - September 27*

Sam Gandy, Harry LeVine III, Marcy MacDonald

#### **Arabidopsis Genomics**

**December 7 - 10**

*Abstract Deadline - October 4*

Michael Bevan, Robert Martienssen



## Laboratory & Lecture Courses



**Spring Application Deadline: January 15, 2000**

### Advanced Genome Sequence Analysis

March 15 - 28

Elaine Mardis, W. Richard McCombie, John McPherson

### Protein Purification and Characterization

April 5 - 18

Richard Burgess, Albert Courey, Sue-Hwa Lin, Sheenah Mische

### Cell & Developmental Biology of *Xenopus*

April 8 - 18

Paul Krieg, Sally Moody

**Summer Application Deadline: March 15, 2000**

### Genetic-Epidemiological Studies of Complex Diseases

June 7 - 13

Elizabeth Squires-Wheeler, Neil Risch

### Advanced Bacterial Genetics

June 7 - 27

Bonnie Bassler, Colin Manoil, Jameslauch

### Molecular Embryology of the Mouse

June 7 - 27

Andras Nagy, Patrick Tam

### Physiological Approaches to Ion Channel Biology

June 7 - 27

Thomas Otis, Angeles Ribera, Laurence Trussell

### Computational Neuroscience: Vision

June 15 - 28

Eduardo-Jose Chichilnisky, Paul Glimcher, Eero Simoncelli

### *Arabidopsis* Molecular Genetics

June 30 - July 20

Katherine Barton, John Bowman, Ueli Grossniklaus

### Molecular Cloning of Neural Genes

June 30 - July 20

Jim Boulter, Catherine DuLac, Cary Lai, Dan Lavery

### Neurobiology of *Drosophila*

June 30 - July 20

Kendal Broadie, Steven DeBelle, Guy Tear

### Brain Development & Function

July 6 - 19

Ronald McKay, Michael Posner

### Mouse Behavioral Analysis

July 7 - 20

Michael Fanselow, Michela Gallagher, Mark Mayford, Alcino Silva

### Molecular Mechanisms of Human Neurological Diseases

July 21 - 27

Adriano Aguzzi, Sam Gandy, John Hardy

### *C. elegans*

July 25 - August 14

Michael Hengartner, Erik Jorgensen, Ronald Plasterk

### Eukaryotic Gene Expression

July 25 - August 14

Brian Dynlacht, Grace Gill, James Goodrich, Jacqueline Lees

### Imaging Structure & Function in the Nervous System

July 25 - August 14

Kerry Delaney, Venkatesh Murthy, Karel Svoboda

### Yeast Genetics

July 25 - August 14

Daniel Burke, Orna Cohen-Fix, Dean Dawson, Tim Stearns

### Advanced *Drosophila* Genetics

July 31 - August 13

Michael Ashburner, Scott Hawley

**Fall Application Deadline: July 15, 2000**

### Bioinformatics:

#### Writing Software for Genome Research

October 11 - 24

Steve Rozen, Lincoln Stein

### Gene Isolation:

#### Advanced Methods in Positional Cloning

October 11 - 24

Howard Jacob, Gary Silverman, Forrest Spencer

### Macromolecular Crystallography

October 11 - 24

William Furey, Gary Gilliland, Alexander McPherson, James Pflugrath

### Immunocytochemistry, *In Situ* Hybridization & Live Cell Imaging

October 18 - 31

John Murray, Thomas Ried, David Spector

### Computational Genomics

October 26 - 31

William Pearson, Randall Smith

### Phage Display of Combinatorial Antibody Lib

November 7 - 20

Carlos Barbas, Greg Silverman,

Don Siegel



## Research Grants for the 21st Century

*The American Cancer Society, the largest private, not-for-profit funding source for cancer research, is expanding its commitment to support gifted and innovative investigators in the field of cancer research. Beginning in the year 2000, two new research grants, with increased funding and extended grant periods, will replace the former Research Project Grants:*

### **Research Scholar Grants for Beginning Investigators**

Offer funding up to \$250,000 a year for a period of four years, renewable for an additional four years. These grants support basic, preclinical, clinical, cancer control, health services, health policy, or epidemiologic research projects initiated by investigators in the first eight years of their independent research careers.

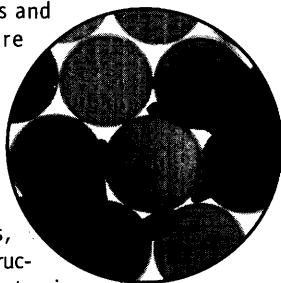
### **Research Scholar Grants in Psychosocial and Behavioral Research**

Provide up to \$500,000 per year for five years with optional renewal for an additional five years. These grants support research projects centered on the psychosocial and behavioral aspects of cancer and are for investigators at any stage of their careers.

**DEADLINES: APRIL 1 AND OCTOBER 15**

**ELIGIBILITY:** US citizens and permanent residents are eligible for these grants.

The American Cancer Society also offers several other research and training grants. For full descriptions of these and other grants, eligibility requirements, instructions, and applications (*electronic applications now available!*), please visit the American Cancer Society web site. Click on "Research Program" to link to grants information.



**www.cancer.org**  
Email: **grants@cancer.org**  
Or call **404-329-7558**



## FACULTY POSITION CHEMICAL BIOLOGY/PROTEOMICS

The newly-created **Center for Chemical Biology** at **Duke University Medical Center**, together with the **Department of Pharmacology and Cancer Biology**, invites applications for a tenure-track position at the level of Assistant or Associate Professor. We seek an individual who will establish, or has established, a dynamic research program that exploits functional proteomics to identify proteins and elucidate their functions. We are especially interested in programs that combine proteomics with the use of small molecules to explore and control regulatory networks. The successful candidate will hold an appointment in the Department of Pharmacology and Cancer Biology, and will be expected to contribute to the education mission of the Department. A statement of research interests, curriculum vitae, and three letters of reference should be sent to: **Faculty Search Committee, Center for Chemical Biology, Box 3686, Duke University Medical Center, Durham, NC 27710.**

**Duke University  
Medical Center**

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## ANNOUNCEMENTS

### NEUROSCIENCE

### THE EJLB FOUNDATION SCHOLAR RESEARCH PROGRAMME

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

Eligibility for such grants is restricted to young scientists who are pursuing an independent research career and have given evidence of having significant potential. It is also a requirement that these scientists (i) have earned an MD and/or a Ph.D. degree; (ii) have completed their post-graduate training; and (iii) have been admitted after **June 15, 1995** as faculty members of a leading university, or an affiliated non-profit research centre, in Canada or elsewhere in the world.

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

The next closing date for receipt of letters of intent is **May 1, 2000**. Full details regarding this programme and required letter of intent forms may be obtained from:

**The EJLB Foundation**  
**1350 Sherbrooke Street West - Suite 1050**  
**Montréal, Québec**  
**CANADA H3G 1J1**

Fax (*for inquiries only*) 514-843-4080).

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### **Senior Director**

You will actively participate in the scientific management and direction of Millennium's portfolio of therapeutic proteins and therapeutic antibodies. You will strategically lead specific pre-clinical projects for the Millennium family of companies. In addition, you will manage the production of small-scale and in vivo pharmacology-scale proteins and antibodies for research purposes for the entire company. Candidates must have a PhD and experience in scale-up protein production.

To apply for this position, please submit your resume in confidence to Christine Savage at [cmsava@aol.com](mailto:cmsava@aol.com), or via fax to 781-444-8077. For questions regarding this position, you may contact Christine at 781-444-4900.

**Multiple opportunities exist in this  
area for Scientists and Research  
Associates at all levels.**

*Additional opportunities available:*

**Sr. Scientist, Pharmacology**

**Sr. Research Associate, Metabolic  
Disease Biology**

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

Our Protein Sciences team is expanding rapidly to support the volume of proteins and antibodies we are screening for our pharmaceutical partners. This expansion is driving the need for talented individuals at all levels with expertise in diverse expression systems (bacterial and mammalian), scale-up expression, purification (particularly purification of enzyme targets for high throughput screening) and the production of phage antibodies.

Join us in building the biopharmaceutical company of the future at our Cambridge facilities. Please respond by sending only one resume using only one of the following methods, indicating the position of interest. Mail your resume to: Millennium Pharmaceuticals, Resume Processing Center, Source Code SC11400, PO Box 798, Burlington, MA 01803. Email: [millennium@webhire.com](mailto:millennium@webhire.com). Fax: (800) 370-6925. A source code must be included with all submissions. We are an equal opportunity employer committed to discovering the individual in everyone.

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## Faculty Opportunity

### Environmental Neurodevelopmental Biologist

Mount Sinai School of Medicine is a leader in medical education and research. We seek an Environmental Neurodevelopmental Biologist for a tenure-track or tenured Associate Professor position in the Department of Community and Preventive Medicine with joint appointment in the appropriate basic science department.

The candidate should be a basic cell, developmental, or neuro-biologist who specializes in the area of developmental alterations arising from environmental exposures. Examples would include the molecular basis of brain development, neurogenerative disorders, and endocrine regulations. The candidate must exhibit strong collaborative skills across the disciplines of epidemiology, biology and the molecular basis of disease.

The Department, with Divisions of Environmental Health Science, Epidemiology, and Biostatistics, undertakes highly interdisciplinary research, chiefly epidemiologic, related to etiology as well as gene-environment interactions in human disease related to environmental and occupational exposures. We seek to expand our mechanistic research to enhance multidisciplinary research within the institution.

Mount Sinai NYU Health has an outstanding scientific environment, with Institutes dedicated to research in neurobiology, aging, molecular biology and genetics as well as providing rich clinical resources and medical expertise which facilitate collaborations. We are in a phase of growth in basic and translational research.

We offer an excellent salary, a comprehensive benefits package, and a challenging work environment. For consideration, send C.V. to: **Mary S. Wolff, Chair, Search Committee, Box 1057, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.** We are an equal opportunity employer fostering diversity in the workplace.



University of Colorado  
Health Sciences Center

### Endowed Chair in Craniofacial/Developmental Biology

The University of Colorado Health Sciences Center Schools of Dentistry and Medicine are seeking candidates to develop a nationally/internationally recognized research program in the area of mammalian craniofacial growth and development, with emphasis on cellular and molecular mechanisms. Candidates should have a doctoral degree, an outstanding research record, proven leadership and a history of developing an interactive research program. Additional resources and faculty positions will be made available for the development of this program. Interested individuals should send a CV, one page description of current research activities and names of three references to:

**Dr. Howard M. Landesman**  
Dean, University of Colorado School of Dentistry  
4200 E. 9th Ave., C-284  
Denver, CO 80262

*The University of Colorado Health Sciences Center is committed to equal opportunity and affirmative action*

#### ANNOUNCEMENTS

### NATIONAL SPACE BIOMEDICAL RESEARCH INSTITUTE

*Special Announcement to Institutions*

The National Space Biomedical Research Institute (NSBRI) announces an opportunity to participate in the core research program of the NSBRI. The release date for this announcement is December 28, 1999.

NSBRI Announcement 99-02

An Opportunity to Participate in the Core Research  
Program of the National Space Biomedical Research  
Institute: Formation of New Research Teams

This announcement is available electronically via the Internet at <http://www.nsbri.org>

Letter of Intent Due: March 17, 2000  
Proposals Due: May 5, 2000

Paper copies of this Announcement are available to those who do not have access to the Internet by calling 713-798-7412 or by writing to:

**R. J. White, NSBRI**  
One Baylor Plaza  
NA-425  
Houston, TX 77030

**The Merck Research Laboratories (MRL) division of Merck & Co., Inc., a world leader in biomedical research, is recruiting a limited number of excellent scientists with proven expertise in animal physiology and pharmacology.**

## **IN VIVO SPECIALISTS**

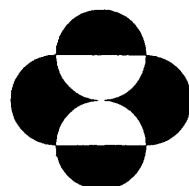
Successful candidates will participate in drug discovery programs at our research facilities in the U.S.A., Canada and the United Kingdom, working with renowned colleagues in other disciplines to explore the full range of therapeutic opportunities in central nervous system disorders, cancer, infectious diseases, and diseases affecting cardiovascular, pulmonary, endocrine and immune function. Our major international research sites possess state-of-the-art facilities, including remote acquisition of biological data through telemetry, non-invasive imaging using both NMR and PET, and the capability to generate and phenotypically characterize transgenic animals.

Merck Research Laboratories has achieved unparalleled success in the pharmaceutical industry as a result of its unwavering commitment to fundamental research. A listing of scientific publications from MRL through 1998 can be obtained at our Web site <http://www.merck.com/scipubs> or by writing to the address below.

Applicants may be drawn from disciplines that include, but are not limited to, Pharmacology, Physiology, Neurosciences, Psychology, and Veterinary Medicine, but must have significant expertise in in vivo techniques. Candidates preferably will have some postdoctoral experience, a superior record of accomplishment in biomedical research as demonstrated by a strong publication record, and excellent communication skills. We seek individuals who share our core research values in the development of innovative medicines for the treatment of disease.

Our salaries, benefits and growth potential are excellent. Applicants interested in working at any of our sites should send their CV (including names and addresses of three potential references), a statement describing their research interests, and their preference (if any) with respect to work location, to **Neyda Conklin, Merck & Co., Inc, P.O. Box 2000, R80Y-135, Rahway, New Jersey 07065**, or by e-mail to **[neyda\\_conklin@merck.com](mailto:neyda_conklin@merck.com)**.

If applying by e-mail, please attach your resume, preferably as an MS Word document. Merck Research Laboratories is an equal opportunity employer.



**MERCK**  
Research Laboratories

## ENDOWED CHAIRS IN VETERINARY MEDICINE AND SURGERY

### The Texas A&M University College of Veterinary Medicine Announces The Wiseman-Lewie-Worth Chair in Cardiology and The Tom and Joan Read Chair in Surgery

The Texas A&M University College of Veterinary Medicine seeks nominations and applications for newly endowed chairs in cardiology and cardiothoracic surgery. The successful candidates will be integral participants and leaders of the college's Signature Program in cardiovascular sciences, and expected to develop innovative research and/or clinical programs in their specialty areas as part of the recently established Michael E. DeBaKey Institute for Comparative Cardiovascular Science and Biomedical Devices. Special emphasis areas include myocardial failure and surgical implantation of biomedical devices, but highly qualified individuals in other areas are encouraged to apply. Strong interdisciplinary collaborations exist with Texas A&M Colleges of Medicine, Engineering, Science, and Rural Public Health, the Baylor College of Medicine, and University of Texas Medical Schools throughout Texas.

Primary academic appointments may be in any college department, although strong interactions with the clinics will be necessary. The Veterinary Medical Teaching Hospital is a spacious and well-equipped facility staffed by specialists in soft tissue and orthopedic surgery, internal medicine, cardiology, neurology, oncology, diagnostic imaging, ophthalmology, dermatology, nutrition, anesthesia and behavior, who evaluate more than 17,000 animal patients yearly. The clinical departments have excellent laboratory and animal housing facilities and clinical research is a rapidly expanding component of their missions.

Qualified applicants should have the DVM and/or Ph.D. or M.D., or equivalent and have specialty board certification in the appropriate area. Applicants should have credentials appropriate for appointment as professor with tenure, and must be nationally and internationally recognized scholars with strong leadership, communication, and interpersonal skills. Candidates should have demonstrated excellence as an extramurally funded independent investigator.

Interested candidates should submit a letter of introduction outlining goals and professional interests, a curriculum vitae, and the names and addresses of three references to: Dr. L. Garry Adams, Associate Dean for Research and Graduate Studies, College of Veterinary Medicine, Texas A&M University, College Station, TX 77843-4461. Inquiries may be directed to Dr. Adams at 409/845-5092 (telephone), 409/845-5088 (fax), or gadams@cvm.tamu.edu. Information about Texas A&M University, the College of Veterinary Medicine and the surrounding community may be found at <http://www.cvm.tamu.edu/>. Application review will begin on February 28, 2000, although applications will be accepted until the positions are filled. Texas A&M University is an Equal Opportunity Employer committed to excellence through diversity.



**Genetic Therapy, Inc. (GTI)**, a Novartis company, is a leader in the research and development of human gene therapy products and technologies for the treatment of genetic and acquired diseases.


### Senior Scientists

#### Molecular and Cellular Biology

We are seeking two highly motivated Ph.D. scientists to join our Core Technologies Department. Candidates must have extensive molecular and cellular biology expertise. Experience in protein expression, tissue culture and immunological assays is preferred. Previous experience in retrovirus and/or adenovirus is a plus. Must have good communication and computer skills and the ability to work in a fast-paced, team oriented environment. Minimum qualifications include a Ph.D. in a scientific discipline plus 2 to 5 years of relevant experience or equivalent.

All of our positions encourage creative thinking! GTI offers a stimulating and innovative environment with competitive salaries and benefits. Please specify **job code 88994022** when applying. Fax or send curriculum vitae to: **Genetic Therapy, Inc., 9 West Watkins Mill Road, Gaithersburg, MD 20878. Fax: (301) 258-4605**

Email: [gti.jobs@pharma.novartis.com](mailto:gti.jobs@pharma.novartis.com)



**GENETIC THERAPY, INC.**  
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## ANNOUNCEMENTS

### MAMMALIAN GENOTYPING SERVICE

The Mammalian Genotyping Service is funded by the National Heart, Lung, and Blood Institute to assist in linkage mapping of genes which cause or influence disease. Genotyping is carried out using short tandem repeat polymorphisms at Marshfield, Wisconsin under the direction of Dr. James Weber. Capacity of the Service is currently about 5,000,000 genotypes (DNA samples times polymorphic markers) per year and growing. Although the Service was initially established for genetic projects dealing with heart, lung, and blood diseases, the Mammalian Genotyping Service will now consider all meritorious applications.

To ensure that the most promising projects are undertaken, investigators must submit brief applications that are evaluated by a scientific advisory panel. At this time, only projects involving humans, mice or rats and only projects with > 10,000 genotypes will be considered. DNA samples must be in hand at the time of application. **There are no genotyping fees for approved projects.** Application deadlines are every six months.

View instructions online:  
<http://www.marshmed.org/genetics>

Call or e-mail for an application:  
(715) 389-3525  
[cywinski@marshfield.edu](mailto:cywinski@marshfield.edu)

Upcoming Deadlines:  
March 31, 2000  
September 30, 2000

## Librarian (Cataloger)

### Vacancy Announcement #990341

GS-1410-09 (9304) \$35,310 - \$45,900

GS-1410-11 (9305) \$42,724 - \$55,541

GS-1410-12 (9306) \$51,204 - \$66,664

\*Salary reflects locality pay for calendar year 2000.

The Library of Congress is seeking a Librarian to perform descriptive and subject cataloging of monographs and serials in an online mode in the medical disciplines and biotechnology. The incumbent will search bibliographic databases to determine relationship of items to existing bibliographic records; analyze material to determine proper access points, classifications and content designation; and perform research to establish and recommend new subject headings and new classification numbers.

The ideal candidate must have demonstrated reading knowledge of the German language and experience in cataloging rules, procedures and practices. Knowledge of automated systems and excellent communication and writing skills are required.

Applicants must obtain a copy of Vacancy Announcement #990341 in order to apply for this position. The vacancy announcement lists knowledge, skills, and abilities (KSAs) that must be addressed. For a copy of this vacancy announcement and an application form, please call the Library of Congress Employment Office at (202) 707-4315 or (202) 707-5627. One can also obtain copies from our web site at [lcweb.loc.gov/hr/employment](http://lcweb.loc.gov/hr/employment) or by visiting the Library of Congress Employment Room LM-107, 101 Independence Avenue, SE, Washington, DC Mon. - Fri. 8:30 a.m. - 4:30 p.m. Applications must be received no later than March 3, 2000.



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Hoffmann-La Roche not only develops innovative treatments, but also provides an innovative environment to facilitate our research staff in the discovery of novel medicines. Our scientists and technicians are able to participate in the development of new assays from the very beginning stages - allowing them to have the satisfaction that comes only from seeing a project through from its conception to its end. Currently, we are seeking the following skilled individuals to become valuable additions to our research team.

### **BIOCHEMICAL HTS - PRINCIPAL SCIENTIST**

You'll be responsible for developing and optimizing assays and analytical procedures for biochemical high throughput screening with an emphasis on regulation of enzymatic activity for metabolic disease, lipid metabolism, and oncology projects. You will perform high throughput enzymatic assays, dose-response analysis, and follow-up studies examining enzyme kinetics; and analyzing HTS and enzyme activity data.

To qualify, you must have a Ph.D. in a biological science or MS/BS with 2-3 years of biological experience, experience with *in vitro* enzymatic assay methods development, analysis of enzyme kinetics, and excellent PC, organization, and communication skills. Familiarity with HTS robotics, automated workstations, and software such as ActivityBase, Isis, GraphPad, Prism, and Excel preferred.

### **SCIENTIST/SR. SCIENTIST**

You'll be responsible for developing and optimizing assays and analytical procedures for high throughput screening; performing high throughput and confirmatory assays as well as dose-response analysis using automated robotic systems and semi-automatic workstations; and analyzing HTS data.

To qualify, you must have MS/BS with some biological experience, experience with *in vitro* enzymatic assay methods development, analysis of enzyme kinetics, and excellent PC, organization, and communication skills. Familiarity with HTS robotics, automated workstations, and software such as ActivityBase, Isis, GraphPad, Prism, and Excel preferred.

### **TECHNICIAN**

You'll be responsible for acquiring, receiving, distributing, and tracking all new compounds. You will prepare and replicate sample plates and utilize the stored compound database as needed.

To qualify, you must have strong PC skills, solid laboratory techniques, the ability to work both independently and as a member of a team, and excellent communication skills. Experience with robotics preferred.

As one of *NJ Monthly's* "Best Companies to Work for in New Jersey" we offer competitive salaries and an outstanding benefits package that includes on-site childcare and a state-of-the-art fitness center. For consideration, please forward your resume, indicating position of interest and salary requirements to: **Hoffmann-La Roche Inc., Human Resources, Building 123, Room 5113, 340 Kingsland Street, Nutley, NJ 07110; Fax: 973-235-2767; E-mail (ASCII text only, no attachments): [nutley.research@roche.com](mailto:nutley.research@roche.com)**. We appreciate your interest in Hoffmann-La Roche Inc., but can only respond to qualified candidates. We are an equal opportunity employer, fully committed to diversity in the workplace. For more information visit our web site at [www.RocheUSA.com](http://www.RocheUSA.com)

### **CELL-BASED HTS SCIENTIST/SR. SCIENTIST**

You'll be responsible for performing and coordinating cell-based high throughput screens; utilizing data analysis and initiating the appropriate validation assays. You will contribute to assay development, choosing assay formats, and giving periodic assistance to biochemical HT assays.

To qualify, you must have a BS/MS in a biological science or related field and the ability to work both independently and as part of a team. Experience in cell biology and familiarity with Excel, ActivityBase, and PowerPoint preferred.

### **ROBOTICS TECHNICIAN/SCIENTIST**

You'll be responsible for supporting the high throughput screening process of compound inventory through the production of stock, mother, and daughter plates; tracking plate inventory in new EMAX "Optima" database; and assisting in the processing of new compounds.

To qualify, you must have a high school diploma or bachelor's degree, the ability to concentrate on detail-oriented work, and a desire to learn robotic operations, troubleshooting, and data processing. Computer and robotic skills preferred.

### **ROBOTICS SUPPORT SCIENTIST/SR. SCIENTIST**

You'll be responsible for supporting the Zeiss, Saigan, and Tecan robotic systems and workstations such as Plate Mate, Tomtec, and Biomek; supporting Hudson/Kardex robotic compound storage and retrieval system; serving as a resource to assist in troubleshooting, programming, and crash recovery; and working with service personnel.

To qualify, you must have a BS or MS in Computer Science, Chemistry, or a biological science and hands-on automated robotics systems experience. Familiarity with Windows programming, Visual Basic, and C++ preferred.

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**MAYO CLINIC  
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Mayo Clinic and Foundation invites applications for a full-time career scientist position at the level of assistant, associate or full professor with joint appointments in the Department of Oncology and an appropriate basic science department. Candidates should have an outstanding, NIH-funded research program in basic or translational aspects of cancer chemotherapy. Preference will be given to applicants with an interest in the area of proliferative signaling pathways and their inhibition. An attractive package of salary, benefits, and research support will be provided. Please send a curriculum vitae and a one page statement of research interests by March 1, 2000 to:

**Scott H. Kaufmann, M.D., Ph.D.**  
Chair, Search Committee  
1301 Guggenheim Building  
Mayo Clinic  
Rochester, MN 55905

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



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MDS Panlabs, the global market leader in providing Pharmacology Profiling Services to the pharmaceutical industry, is expanding its US team of scientific professionals in the field.

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A Ph.D. in pharmacology or related discipline and at least 5 years pharmaceutical or CRO industry experience is required. Excellent interpersonal and oral/written presentation skills, problem solving acumen, and technical proficiency are essential. Candidates will reside on either East Coast or West Coast and have the ability to work from in-home office and travel to client companies to support field sales team. Competitive salary and benefits package. Send CV and references to:

**MDS Panlabs, Inc.**  
Attn: Human Resources  
(Position #99-39 East Coast)  
(Position #99-41 West Coast)  
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Bothell, WA 98011-8890  
Fax: 425.487.3787 or  
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**Senior Scientist**

As an integral member of our Biomaterials Research department located in Minneapolis, MN, the selected candidate will be responsible for conducting pre-clinical evaluations of cell and molecular biology concepts/products as well as developing in vivo research models among other related duties. Qualifications include an MD or PhD in cardiovascular physiology with 2-3 years laboratory research experience and a background in animal-based pre-clinical research. Experience with microscopy methods, immunohistology and related procedures essential. Ideal candidates are preferred to have an academic and practical understanding of molecular biology methods and training in electrophysiology.

We offer excellent compensation, great benefits, and limitless advancement potential. Apply directly by sending your skills-based scannable resume, which must reference Job#16234.SM, to: [employment@medtronic.com](mailto:employment@medtronic.com) Or mail to: Medtronic Employment Center, Job# 16234.SM, P.O. Box 976, Minneapolis, MN 55440-0976. Job Hotline: 612.514.7724. No agencies or phone calls, please.

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New York, NY 10010

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**For more information:**

AACR Office  
 Public Ledger Building  
 100 S. Independence Mall West  
 Philadelphia, PA 19106-3621

**Advance  
 Registration  
 Rates Until  
 February 1,  
 2000**

# AMERICAN ASSOCIATION FOR CANCER RESEARCH

# 91st

## ANNUAL MEETING

### April 1-5, 2000



The Moscone Center • San Francisco, CA

(Topics with Confirmed Speakers/Organizers as of 12/1/99)

**EDUCATIONAL SESSIONS AND  
 METHODS WORKSHOPS**

(SATURDAY AFTERNOON, APRIL 1, 2000)  
 To Be Announced

**OFFICIAL OPENING EVENT**

(SUNDAY MORNING, APRIL 2, 2000)

Presidential Address (Daniel D. Von Hoff)

Plenary Session: New Frontiers in Cancer Research

Genetic Approaches to Cancer Prevention (Malcolm C. Pike)

Genomics: What Is It, Where Is It Going? (Francis Collins)

Chromatin and DNA Methylation (Adrian P. Bird)

25 Years of Monoclonal Antibodies: Are We There Yet? (Ellen S. Vitetta)

Therapeutic Targeting of Genetic Alterations (Dennis J. Slamon)

**SYMPOSIA**

Chemoprevention of Cancer of the Respiratory Tract (Lee W. Wattenberg)

Cancer Vaccines (Drew M. Pardoll)

Apoptosis: Basic Mechanisms (John C. Reed)

DNA Repair and Genetic Stability (James E. Cleaver)

Transcription (Beverly M. Emerson)

Gene/Environment Interactions

Diet and Cancer: Molecular Determinants (John P. Pierce)

The Cancer-Chromatin Connection (Alan P. Wolffe)

Angiogenesis (Douglas Hanahan and S. Gail Eckhardt)

Breast Cancer (Karen S. H. Antman and Edith A. Perez)

Melanoma (Nicholas Hayward)

Prostate Cancer (Alice S. Whittemore and Otis W. Brawley)

Bladder Cancer (Margaret Knowles and Richard J. Cote)

Colorectal Cancer (Stanley R. Hamilton)

Brain Tumors (Francis Ali-Osman and Webster K. Cavenee)

Exploiting the Genetic Defects of Pediatric Tumors (Mark A. Israel)

Apoptosis: Therapeutic Implications (John A. Hickman)

Cytotoxic Chemotherapy: Making the Transition to the New Millennium  
 (Joseph R. Bertino and Susan P. C. Cole)

Molecular-targeted Therapeutics: New Strategies (William G. Kaelin)

Radiation Oncology and Chemotherapy: Understanding the Issues

(C. Norman Coleman and Silvia Formenti)

Aging and Cancer: Focusing on Preneoplastic Changes (J-P. Issa)

Mouse Models and Cancer (Terry A. Van Dyke)

Development and Cancer (Matthew P. Scott)

Epigenetics of Cancer: New Mechanisms for Silencing

Tumor Suppressor Genes (Paula M. Vertino)

The Tumor Microenvironment and Cancer Biology: Role of Epithelial

Cells in Metastasis (Mina J. Bissell and Ann F. Chambers)

MAP Kinase Signaling (Channing Der)

Prevention and Treatment of Intraepithelial Neoplasia (Joyce A. O'Shaughnessy)

Late-Breaking Science (Speakers To Be Selected Shortly Before the Meeting)

**FORUMS (To Be Announced)****"MEET-THE-EXPERT" SUNRISE SESSIONS**

Quality of Life Issues

Inherited Cancers of the Kidney (Berton Zbar)

Cloning Animals (Tony Perry and Terri Wakayama)

Pharmacogenomics: Drug Discovery in the Post-Genomic Era (Roland Somogyi)

Molecular Approaches to Cancer Detection (Jonathan W. Uhr)

Papillomaviruses and Cervical Cancer (Denise A. Galloway)

p13 Kinase (Julian Downward)

Hepatitis Viruses and Liver Cancer (Setsuo Hirohashi)

*Helicobacter pylori* and Gastric Cancer (Eiichi Tahara)

The Steroid Receptor Superfamily

p53: Structure, Function, and Clinical Potential (Karen H. Vousden)

Growth Regulation through Protein Phosphorylation (Tony Hunter)

New Approaches in Cancer Cytogenetics (Joe W. Gray)

Perspectives on Cancer Chemotherapy: Past, Present, and Future (Emil Frei, III)

Genetic Imprinting (Benjamin Tycko)

The Li-Fraumeni Syndrome and Cancer (Louise C. Strong)

Drug Discovery (Neil W. Gibson)

Pancreatic Cancer (James L. Abbruzzese)

New Platinum Compounds (Nick Farrell)

Physical Activity and Cancer (Leslie Bernstein)

Tobacco and Cancer (Stephen S. Hecht)

Genetic Testing

TGF $\beta$  Receptor Signaling (Jeffrey L. Wrana)

Ink 4/ARF Tumor Suppressor Locus (Martine F. Roussel)

Her-2 neu Signaling and Epithelial Neoplasms (Yosse Yarden)

Mammary Stem Cells and Carcinogenesis in Mice

(Daniel Medina and Gilbert Smith)

Tamoxifen and SERMS (C. Kent Osborne)

Molecular Fingerprinting and Its Impact on Therapy (Edison T. Liu)

Clinical Trials in Gene Therapy (Stanton L. Gerson)

Cox-2 Regulation and Function (Harvey Herschman)

The E-Cadherin System: Function and Dysfunction in Cancer (Barry Gumbiner)

Signaling by IGFs (David R. Clemmons)

Inhibition of Bone Resorption (James R. Berenson)

Monoclonal Antibodies in the Treatment of Hematologic Malignancies

Ubiquitin/Proteasome System (Michele Pagano)

HIV-related Malignancies (Ellen G. Feigal)

Tumor-Stromal Interactions (Gerald R. Cunha)

Hypoxia and Cancer (Amato J. Giaccia)

Cancer Treatment-related Secondary Tumors (Margaret A. Tucker)

Overview of Cancer in High-Risk Families (Frederick P. Li)

Radiation Oncology (W. Gillies McKenna)

New Methods in Clinical Trials (Susan G. Arbuck)

Lung Cancer (Takashi Takahashi)

Nuclear Organization and Gene Expression (David L. Spector)

Viruses and the Immune System as Promoters of Cancer Development

(Jay A. Levy)

Mismatch Repair and Cancer Therapy (Robert Brown)

## Staff Scientist

### Center for Structural and Molecular Biology Oak Ridge National Laboratory

The Oak Ridge National Laboratory (ORNL) invites applications for Staff Scientists for the Center for Structural Molecular Biology (CSMB), funded by the Office of Biological and Environmental Research (OBER). The Center is being established as a result of a proposal submitted to OBER by a team of scientists from ORNL and Los Alamos National Laboratory and will include the construction of a specially designed facility for the study of biological molecules using small angle neutron scattering (SANS). This instrument is planned on the new cold source being constructed on the High Flux Isotope Reactor (HFIR), currently operating at a power of 85 MW, and will complement a suite of instruments funded by the Office of Basic Energy Sciences (BES). More information is available at: [neutrons.ornl.gov](http://neutrons.ornl.gov)

The HFIR has a core flux exceeding  $10^{15}$  neutrons/sec/cm<sup>2</sup>, which is similar to the High Flux Reactor at the Institut Laue-Langevin in France, currently the most powerful source of "cold" neutrons. Thus, the flux of the HFIR SANS instrumentation will rival that of the best facilities in the world. The Center will also include mass spectrometry (MS), computational biology resources and a laboratory for preparation of SANS and MS samples.

ORNL is seeking qualified candidates to assist with the design, construction and optimization of the SANS facility and when the instrument has been brought on line. CSMB staff responsibilities will include assisting visiting researchers to conduct experiments, calibrating and maintaining the spectrometer, and participating in instrument and equipment development projects, including software development. These duties should occupy no more than two-thirds of the time of the instrument scientists, who will be expected to maintain an independent research effort using the OBER and BES-funded instrumentation. The ideal candidate will have experience in small angle neutron and x-ray scattering instrumentation and data analysis, its applications to structural biology, and computing expertise.

For immediate consideration, send your resume and list of three or more references to: Michelle Buchanan, CSMB Director, Oak Ridge National Laboratory, PO Box 2008, Oak Ridge, TN 37831-6124; phone: (865) 574-4521; FAX: (865) 574-3036. More information about ORNL can be found at: [www.ornl.gov](http://www.ornl.gov)

ORNL, a multiprogram research facility managed by Lockheed Martin Energy Research Corporation for the US Department of Energy, is an equal opportunity employer committed to building and maintaining a diverse workforce.

**ornl** *Bringing Science to Life*

### FOOD AND DRUG ADMINISTRATION DIRECTOR, NATIONAL CENTER FOR TOXICOLOGICAL RESEARCH

The Food and Drug Administration (FDA) is seeking candidates for the position of the Director, National Center for Toxicological Research (NCTR) of the FDA. This position will be filled as either a Senior Executive Service or Senior Biomedical Research Service position. The incumbent provides overall direction and management for the Center; coordinates and works to integrate NCTR's research programs with the research needs of the other FDA Centers/Offices; serves as the scientific liaison between FDA and other government agencies, academic institutions and private organizations; and is responsible for the direction, performance and quality of NCTR research efforts. It is desirable that candidates be nationally or internationally recognized as an authority in toxicology or a related scientific discipline. The salary range is \$108,305 to \$151,800. The position is located in Jefferson, Arkansas. Further information regarding qualification requirements and procedures for applying for the position may be obtained from Ms. Arlene Karr at 301-827-4183 or Ms. Laura Taylor at 301-827-4178, or from the Office of Personnel Management website at [www.usajobs.opm.gov](http://www.usajobs.opm.gov).

**Ms. Arlene Karr/Ms. Laura Taylor**  
Office of Human Resources and Management Services  
Food and Drug Administration  
Room 7B-32, HFA-408  
Parklawn Building  
5600 Fishers Lane  
Rockville, MD 20857

### ING Barings-Biotech Research Associate

ING Barings is the corporate and investment banking arm of ING Group. With a network of eighty-nine offices in forty-nine countries we are able to provide an extensive range of financial products and services to corporate and institutional clients. We are seeking a Research Associate to work in our biotechnology equity research group in New York. The Research Associate's primary responsibility is to support and work closely with our senior analysts. This includes assisting in the performance of technical due diligence, updating financial models, the preparation of company research reports, as well as frequent interactions with leading academicians and senior managers in the biotechnology and financial industries. The ideal candidate would possess the following: completed at least a doctoral program in the biological sciences (PhD, MD or DVM), excellent computer and communication skills and exceptional analytical ability coupled with highly developed people skills. ING Barings offers a competitive compensation and benefits program. Please send your resume and qualifications to:

**Jennifer Tarcelli**  
ING Barings, Human Resources  
55 East 52nd Street, 31<sup>st</sup> Floor  
New York, NY 10055  
Fax: 212-409-5321  
E-mail: [jennifer.tarcelli@ing-barings.com](mailto:jennifer.tarcelli@ing-barings.com)



**St. Jude Children's  
Research Hospital**

ALBAC • Danny Thomas, Founder

### POSTDOCTORAL CANDIDATE

A position is available for a postdoctoral candidate (Ph.D. or M.D.) interested in contributing to an HIV Vaccine Program translating bench discovery to clinical application. Individual projects include the development of novel recombinant virus vectors to characterize CTL responses. As well as the characterization of B cell responses (via neutralizing antibody studies and ELISPOT assays) among adult recipients of a novel multi-envelope HIV vaccine. Experience with cellular immunology and/or recombinant technology preferred. Send curriculum vitae to **Julia Hurwitz, Ph.D. or Karen Slobod, M.D., Department of Infectious Diseases, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105.** Affirmative action/equal opportunity employer. We provide a smoke-free environment.

## Discover the Power of Protein Engineering



**APPLIED MOLECULAR EVOLUTION (AME)**, formerly Ixsys, is a rapidly growing private company with a proven track record in developing biopharmaceuticals using Directed Evolution technologies. AME is now expanding our protein engineering technology platform into the fields of specialty & commodity chemicals and agricultural biotechnology.

This strategic growth has created an immediate need for Ph.D. scientists with expertise in:

- Molecular biology
- Protein biochemistry/enzymology
- Plant biology/biochemistry
- Antibody engineering

AME seeks scientists who can work independently while applying problem-solving skills to achieve critical project goals. AME provides a high level of responsibility in a dynamic working environment with the opportunity to develop and implement leading-edge protein engineering technologies. Additionally, AME scientists receive excellent benefits and compensation, including equity participation and generous performance-linked incentives.

Send cover letter and resume to:  
HR Department, AME  
3520 Dunhill Street, San Diego, CA 92121  
careers@AMEvolution.com



### CALIFORNIA INSTITUTE OF TECHNOLOGY FACULTY POSITION

THE CALIFORNIA INSTITUTE OF TECHNOLOGY offers a faculty position at any level in the DIVISION OF BIOLOGY working in MAGNETIC RESONANCE IMAGING

The successful candidate is expected to maintain an active independent research program, to teach, and to lead the development and administration of a planned magnetic resonance (MR) center. The position is open at the Assistant, Associate or Professor level, depending on experience. Applicants should have relevant training such as MR physics or imaging. They must have a Ph.D. degree and should have extensive experience in magnetic resonance research, particularly as applied to brain imaging. Qualifications for a successful candidate include the ability to develop techniques in MR, to apply MR to solve important biological problems, and/or to apply MR techniques to important issues in Cognitive Neuroscience.

Applications should include a curriculum vitae, a statement of research plan, and three letters of recommendation. This material should be sent to the **Magnetic Resonance Faculty Search Committee, California Institute of Technology, MC 216-76, 1201 E. California Blvd., Pasadena, CA 91125**. Review of applications will begin on February 1, 2000 and will continue until the position is filled.

*Caltech is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.*



ICAgen is a leader in the discovery and development of small molecule drugs that target ion channels in a wide variety of therapeutic areas. Located in the Research Triangle Park, North Carolina, close to the resources of three major universities, the company has assembled a world class group of electrophysiologists, chemists, molecular biologists, and pharmacologists and is adding key new members to the team. We are looking to attract talented individuals for the following positions who are able to make an impact in an exciting and challenging environment.

#### **Electrophysiologists** (Job Code: EP-151 (Ph.D.), EP-152 (B.S./M.S.))

Positions are available in Biology for both Ph.D. and M.S./B.S. level scientists. The responsibilities for these positions will include conducting electrophysiological experiments in support of both collaborative and internal discovery projects. Strong theoretical background in ion channel biology required with demonstrated proficiency in electrophysiological techniques and data analysis. Preference will be given to candidates with direct experience doing neuronal slice recordings or primary neuronal culture. These positions also require strong communication skills, both written and verbal, and the ability to work in a team environment.

#### **Pharmacologist** (Job Code: Pharma-2)

Requires a Ph.D. in pharmacology or related life science and 2-5 years post-doctoral experience. Applicant must be skilled in conducting in vivo experiments (dosing, surgery, etc.) to evaluate efficacy and side effects of pharmacological agents. Preference will be given to candidates with industry experience and for direct experience in the area of pain research. Candidates must exhibit a willingness to work in multiple therapeutic areas, have strong communication skills, and be able to work effectively in a team environment.

ICAgen provides a comprehensive compensation and benefits package including competitive salaries, stock options, medical and dental plans, and a 401(k) retirement plan. For consideration, please submit your resume or CV and salary history directly to **ICAgen, Inc., P.O. Box 14487, Research Triangle Park, NC, 27709, Attn: Human Resources** and include the appropriate job code with your cover letter. ICAgen, Inc. is an equal opportunity employer.



## ASSISTANT/ASSOCIATE/FULL PROFESSOR DEPARTMENT OF MOLECULAR BIOLOGY AND BIOCHEMISTRY

The Department of Molecular Biology and Biochemistry at Rutgers, The State University of New Jersey, New Brunswick (Busch Campus), invites applicants for a **FACULTY POSITION**. The Department has a scientifically diverse faculty and is especially interested in applicants in the areas of RNA processing, DNA replication, transcriptional control, signal transduction, cell cycle control, developmental genetics, and structural biology. Strong candidates in other areas will also be considered. The department is an important part of the expanding program in molecular biology at the Busch campus where the Center for Advanced Biotechnology and Medicine, the Waksman Institute and the Robert Wood Johnson Medical School are also located. We have strong consolidated, interdepartmental graduate programs in molecular biosciences. The position offered is highly competitive with regard to start-up funds, laboratory space and salary. Please send a curriculum vitae, list of publications, summary of research activities, a research plan, and three letters of recommendation by March 1, 2000, to: **Dr. Stephen Anderson, Chairman, Department of Molecular Biology and Biochemistry, Rutgers, The State University of New Jersey, Center for Advanced Biotechnology and Medicine, 679 Hoes Lane, Piscataway, NJ 08854.**

*Rutgers University is an Equal Opportunity/Affirmative Action Employer*

## Toxicogenomics / Gene-Toxicant Interactions

### Faculty Position

### College of Veterinary Medicine

### Texas A & M University

The Department of Veterinary Anatomy and Public Health invites applications for a tenure track position in toxicogenomics at the Assistant Professor level. The successful candidate is expected to maintain an independently funded research program in toxicogenomics (interactions of genetic background and chemical exposure) or genetic toxicology (the effects of chemical exposure on gene regulation and expression).

Work should complement the broad scientific areas represented in the department or in the interdepartmental faculties of toxicology and genetics. Graduate programs in toxicology (supported in part by an NIEHS training grant in environmental toxicology), genetics, and reproductive biology include faculty with interests in veterinary biotechnology, comparative genetics, identification and characterization of animal models of human disease, generation of transgenic animals, bioremediation, neurotoxicology, molecular toxicology and carcinogenesis. Further information on the Department of Veterinary Anatomy and Public Health may be found on the internet at <http://www.cvm.tamu.edu/vaph/>.

Successful candidates will be expected to contribute to the undergraduate teaching program and to develop a graduate course in his/her field of expertise. Criteria for selection include a terminal degree (PhD, PhD/DVM or PhD/MD) and post-doctoral experience in a biomedical or physical science, a publication record in peer-reviewed journals, and demonstrated potential for extramural funding.

A letter of application with curriculum vitae, statement of research objectives, reprints of two or three recent publications, and names and addresses of three references should be sent to Dr. Deborah Kochevar, Chair, Toxicogenomics Search Committee; Veterinary Physiology and Pharmacology; College of Veterinary Medicine; Texas A & M University; College Station, TX 77843-4466; e-mail: [dkochevar@cvm.tamu.edu](mailto:dkochevar@cvm.tamu.edu). Review of applications will begin February 14, 2000 and will continue until position is filled. Texas A & M University is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.

## Biotechnology

Novartis Agricultural Discovery Institute Inc. (NADI), is one of the largest single fully funded research endeavors dedicated to agricultural genomics. We apply cutting-edge biotechnology to match genes with traits and provide advanced technologies that can be used widely in agribusiness research for the development of gene-based products. We currently seek the following exceptional individual to join NADI's growing team:

## POSTDOCTORAL FELLOW

We are looking for a creative individual in the field of plant molecular, cellular and developmental biology who is interested in a highly collaborative, discovery-focused research environment. This position will involve developing methods to screen for new enzymes or proteins from different types of plant libraries. An understanding of genomic approaches in gene identification is expected. Areas of focus include but are not limited to transcriptional regulation, immunology, and human nutrition. Successful candidate will have a Ph.D. with 0-2 years' research experience. Strong communication and organizational skills are essential.

NADI offers excellent compensation and a great benefits package, including 401(k). For immediate and confidential consideration, please send resume including salary history and expectations to: **Novartis Agricultural Discovery Institute, Inc., HR Dept. - PD/XG-SCI, 3115 Merryfield Row, Suite 100, San Diego, CA 92121-1102. Fax: (858) 812-1102. EOE**

 **NOVARTIS**



Diagnostics

## Postdoctoral Fellowships

### Who we are

Roche Diagnostics, a subsidiary of world-renowned Hoffmann-LaRoche, Inc., is a world leader in the development, manufacture and marketing of analytical systems and in vitro diagnostics for hospitals, clinical laboratories, physicians and consumer markets.

### The position

In support of the recently established Research center in Indianapolis, we have created a Postdoctoral Research Program to support our basic research activities. We currently have several postdoctoral fellowship openings. The successful candidates will participate in the research and development of automated and decentralized immunochemically-based testing systems on the leading edge of discovery in the Drug Monitoring area. The positions are well suited for scientists with Chemistry or Biochemistry backgrounds that are interested in applying their expertise to problems of biochemical interest. Much of the research involves interdisciplinary studies and we are looking for individuals to bridge knowledge in the physical sciences with that of the biological sciences.

### Who to contact

Roche offers a generous compensation package which also includes benefits and moving expenses. Send CV and 3 reference letters to: **Roche Diagnostics, Postdoctoral Fellowship-401023/24, 9115 Hague Road, P.O. Box 50457, Indianapolis, IN 46250-0457.** Principals only, please. Roche is committed to providing equal opportunity to a diverse workforce.

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

# nature medicine

## seeks research editors

These are full-time positions within an established editorial team based in New York City.

Applicants should have a strong research background in the biomedical sciences, a broad understanding and interest in biomedical research, excellent literary skills and a commitment to the communication of science. Expertise in immunology and/or infectious diseases is particularly welcome.

This is an exciting opportunity to play a key part in a top-ranked science journal while staying at the forefront of modern research. Although the successful candidates will focus on research manuscript selection and communication with authors and referees, they will participate in all aspects of the editorial process, including commissioning articles, writing and attending conferences.

We offer a highly competitive salary and excellent working conditions within a dynamic editing and publishing group that is also responsible for *Nature*, *Nature Genetics*, *Nature Structural Biology*, *Nature Biotechnology*, *Nature Neuroscience* and *Nature Cell Biology*.

Please submit a CV (with names of three references), a concise letter outlining your credentials, and a 500-word *News & Views*-style article on a recent exciting and newsworthy development in any area of biomedical research to: The Editor, *Nature Medicine*; 345 Park Avenue South, New York, NY 10010-1707 (FAX 212-683-5751; e-mail [medicine@natureny.com](mailto:medicine@natureny.com)) to arrive as soon as possible and **no later than 11 February 2000**.



Nature America, Inc.  
345 Park Ave. South  
New York, NY 10010

# NRC-CMRC

NRC is a dynamic, nationwide R&D organization committed to helping Canada realize its potential as an innovative and competitive nation. Our strengths are: outstanding people, core science and engineering expertise and information, research programs focused on key technologies and technology diffusion. Combining our strengths with those of industrial and academic partners, we foster Canada's emerging national system of innovation.

**You can make a difference at NRC!**

## Research Associates and Postdoctoral Fellows

**The Institute for Marine Biosciences (IMB)  
Halifax, Nova Scotia, Canada**

### Your Challenge

The Institute for Marine Biosciences (Halifax, NS) of the National Research Council of Canada invites applications for research associates and postdoctoral fellows to work with Drs. Christoph Sensen, <http://www.cbr.nrc.ca/sensenw>, Mark Ragan, e-mail: [mark.ragan@nrc.ca](mailto:mark.ragan@nrc.ca) or Neil Ross, e-mail: [neil.ross@nrc.ca](mailto:neil.ross@nrc.ca) in the following areas:

**Genomics technologies (C.S.)**  
**High-density arrays (C.S.)**  
**Molecular machines (Golgi) (C.S.)**  
**Proteomics (N.R.)**  
**Computational genomics (M.R.)**  
**Microbial bioinformatics (M.R.)**

Duration of these positions is to March 31, 2002.

### Your Credentials

Successful candidates must have a Ph.D. in computer science with a biology and bioinformatics background or a Ph.D. in life sciences with several years experience programming in a UNIX environment or a Ph.D. in life sciences with extensive experience in protein chemistry (for proteomics position only). Successful candidates will be expected to develop a research program within the NRC Genomics Initiative at IMB.

As an employer who values diversity in its workforce, we encourage candidates to self identify as members of the following designated groups: women, visible minorities, Aboriginal peoples and persons with disabilities.

Preference will be given to Canadian citizens and Permanent Residents; however worldwide applications are encouraged.

To explore any of these opportunities, send your application by February 15, 2000, **indicating reference number 63-99-26RA**, to: **Dian Marciniak, Human Resources Assistant, Institute for Marine Biosciences, 1411 Oxford Street, Halifax, N.S., Canada, B3H 3Z1.** e-mail: [Dian.marciniak@nrc.ca](mailto:Dian.marciniak@nrc.ca). You can apply on our Web site at [www.nrc.ca/careers](http://www.nrc.ca/careers).

*We thank all those who apply and advise that only those selected for further consideration will be contacted.*

*Vous pouvez obtenir ces renseignements en français.*



National Research  
Council Canada

Conseil national  
de recherches Canada

Canada



**St. Jude Children's  
Research Hospital**

ALSAC • Danny Thomas, Founder

## POSTDOCTORAL POSITIONS IN CYTOKINE SIGNAL TRANSDUCTION

Postdoctoral positions are immediately available to study the biochemistry of the regulation of signal transduction by the cytokine receptor superfamily. The emphasis of the laboratory is in the area of cytokines that affect hematopoietic lineages, particularly erythropoietin, although studies involving other cytokines are ongoing. The approaches being utilized in the laboratory include biochemical and genetic approaches to identify proteins that participate in cytokine receptor complexes. The laboratory extensively utilizes gene manipulations in mice to explore the function of individual and combinations of gene products. M.D., M.D./Ph.D. or Ph.D. training in molecular biology and/or biochemistry is essential with some training in hematopoiesis being desirable. Competitive stipends are available as well as a benefit package that includes professional developmental funds for journal subscriptions and travel. Applicants should submit a curriculum vitae with names for three references and a cover letter indicating future goals to: **James N. Ihle, Ph.D., Howard Hughes Medical Institute, Department of Biochemistry, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105. E-mail: james.ihle@stjude.org**

SJCRH IS AN AFFIRMATIVE ACTION/  
EQUAL OPPORTUNITY EMPLOYER



## CONSERVATION BIOLOGIST

The Department of Organismic Biology, Ecology and Evolution (OBEE) and the campus-wide Institute of the Environment (IoE) at UCLA invite applications for an **open rank, tenure-track, shared faculty position in Conservation Biology**. We desire an integrative biologist who uses a wide variety of approaches to document and understand the causal factors affecting biodiversity in either aquatic (marine or freshwater) or terrestrial habitats. The successful candidate's research program should include basic and applied studies that rely on both field and laboratory data. The position is open with regard to research specialization and taxonomic groups studied by the candidate. The IoE (<http://www.ioe.ucla.edu>) is a campus-wide research unit that is devoted to interdisciplinary research and teaching related to environmental issues at local, regional and global scales. OBEE (<http://www.lifesci.ucla.edu/bio/>) has 23 faculty, whose research ranges from cellular to evolutionary biology, including strong research programs in animal behavior, evolution and ecology. Candidates are expected to maintain a vigorous research program and contribute to both undergraduate and graduate teaching in both OBEE and the IoE. UCLA has outstanding academic support for faculty including access to the UC Natural Reserve System and attractive startup packages.

Send CV, statements of research and teaching interests, and the names and addresses of three references by March 1, 2000 to: **Chair, Conservation Biology Search, Department of Organismic Biology, Ecology and Evolution, University of California, Box 951606, Los Angeles, CA 90095-1606**. For more information, contact Dr. Philip Rundel at [rundel@biology.ucla.edu](mailto:rundel@biology.ucla.edu).

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

## DIRECTOR, CANCER CENTER New Jersey Medical School

The New Jersey Medical School of the University of Medicine and Dentistry of New Jersey (UMDNJ) seeks an M.D., or an M.D., Ph.D. to become the Director of the newly established Cancer Center. This major Center of Excellence has a strong commitment of support from both the New Jersey Medical School and University Hospital. Selected candidate will be expected to bring additional resources to support an active research program in cancer research and should qualify for a tenured professorship in one of the School's academic departments.

Located in the University Heights section of Newark, a few minutes from New York City and pleasant New Jersey suburbs, UMDNJ - New Jersey Medical School provides a stimulating and collegial environment with substantial resources. The Cancer Center has been established as a priority initiative of the Medical School. It is housed in newly renovated laboratory space and has the mission of providing clinical services to cancer patients and fostering basic and clinical cancer research. The New Jersey Medical School and the University of Medicine and Dentistry of New Jersey have made other major commitments to promote research in medical sciences, including the development of a Center for the study of Emerging and Re-emerging Pathogens and construction of an International Center for Public Health in University Heights Science Park.

To apply, please send your curriculum vitae to:

**Linda C. Reich, MBA, Director of Special Projects, NJMS-Office of the Dean, 185 South Orange Avenue, MSB C-662, University Heights, Newark, NJ 07103**



The UMDNJ is an Affirmative Action/Equal Opportunity Employer M/F/D/V and a member of the University Health System of New Jersey.



**PERINATAL  
RESEARCH CENTRE**  
UNIVERSITY OF ALBERTA

### FACULTY POSITIONS:

#### DEVELOPMENTAL BIOLOGY and PERINATAL RESEARCH

The University of Alberta Perinatal Research Centre is seeking new faculty with research interests in the areas of developmental neurobiology, myogenesis, or lung development, although excellent candidates in any area of perinatal investigation (maternal, fetal or newborn health) are strongly encouraged to apply. Academic appointments will be arranged through appropriate departments and faculties at a level commensurate with experience and proven academic track record, therefore candidates should be competitive for salary awards from the Alberta Heritage Foundation for Medical Research, Medical Research Council of Canada or similar agencies. Qualifications include a Ph.D. or equivalent, postdoctoral research training and a demonstrated ability to conduct high quality research with the potential to establish an externally funded research program. The Perinatal Research Centre is internationally renowned with strong infrastructure and excellent graduate student and fellow recruitment programs. Its basic research strengths include maternal and fetal cardiovascular health, lung development, pregnancy and birth and research programs in neuromotor development, perinatal immunology, growth and embryology.

Applicants should submit a curriculum vitae, brief statement of research interests, and the names of three references to the Search and Selection Committee, Perinatal Research Centre, 220 HMRC, University of Alberta, Edmonton, AB, T6G 2S2. Applications for immediate consideration must be received by February 18, 2000. For further information, consult <http://www.ualberta.ca/PERINATAL.htm>

*At Monsanto, we share a common goal - to help people lead longer, healthier lives. We are pioneering the use of life-science technologies to understand how the connections between human health, nutrition and agriculture can be used to develop products to improve the quality of life for everyone, everywhere.*

The Biotechnology Pipeline Program of Monsanto has openings at all advanced educational levels for individuals with skills in plant cell or molecular biology. Some positions are available immediately, and others will be filled throughout the first half of 2000. Positions exist at research centers in St. Louis, MO; Middleton, WI; and Mystic, CT.

## Plant Transformation Technicians and Specialists

Positions are available on our transgenic plant production and discovery teams. We require an AA, BS, or MS degree in a relevant biological sciences discipline. Preference will be given to individuals with at least two years hands-on experience in plant transformation and/or large-scale media preparation. Experience with corn, wheat, soybeans, or cotton is particularly desirable.

**Ad Code: 99-2912** Locations: St. Louis, Middleton, and Mystic

## Plant Transformation Discovery Team Leaders

These positions require a PhD in an appropriate discipline and at least five years post-doctoral experience in genetic transformation, preferably with plants. Preference will be given to individuals with demonstrated leadership abilities, and with significant research experience with corn or soybeans, and/or experience with Agrobacterium vectors. Industrial experience in plant transformation is preferred but not essential.

**Ad Code: 99-3405** Locations: St. Louis, Middleton, and Mystic

## High Throughput Screening Team Leader

A person enthusiastic about robotics and automation is sought to lead the high throughput screening team within the Seed Quality group in St. Louis. Implementation of robotics to accomplish high throughput DNA isolations from plant tissue and PCR reaction setup is underway.

The individual in this position will have the following responsibilities: 1) Complete the design and implementation of robotics to accomplish high throughput capacity. 2) Work with the assay development team to adapt PCR-based assays to a high throughput platform. 3) Lead the high throughput screening team to manage screening requests. 4) Collaborate with the Seed Quality Discovery team, Quality Control groups at other sites and other groups utilizing robotics and automation to maintain cutting edge technologies for QC screening needs.

A person with excellent communication skills and a drive to be on the cutting edge of technology will be highly desirable for this position. This position is open to individuals with a BA, MS or PhD.

**Ad Code: 99-2973** Location: St. Louis

## Plant Molecular Biologists

Openings are available on teams of molecular biologists working in the areas of: 1) molecular characterization of transgenic crop plants, 2) development and improvement of diagnostic DNA-based assays for transgenic plants, and 3) development and improvement of enabling vector technologies for crop transformation.

Successful candidates will have an MS or BS plus 5 years' experience in plant molecular biology. Experience in plant DNA extractions, Southern hybridization, cloning, PCR, and ELISAs is highly desirable, with experience in high-throughput platforms or plant gene expression a plus.

**Ad Code: 99-2911** Locations: St. Louis, Middleton, and Mystic

## Functional Genomics

Several positions are available for PhD-level scientists in the area of corn functional genomics. Responsibilities include planning and executing discovery research and coordination of research efforts across the Mystic research site and in collaboration with Monsanto locations throughout the U.S. and abroad.

We are seeking scientists with 2+ years of post-doctoral experience who have demonstrated the capacity to perform independent research in the fields of genetics, molecular biology and/or biochemistry. Successful candidates will be self-motivated, possess excellent communication skills and have demonstrated abilities to work within an interactive, multidisciplinary team environment. Critical thinking and innovation also required.

**Ad Code: 99-3406** Location: Mystic, CT.

Successful candidates for all positions must have good communication skills and a demonstrated ability to work well within a team-based atmosphere. To apply, please forward your resume and the names and contact information of three references to: **Monsanto Life Sciences Company, above Job Code Preference 99-XXXX, 700 Chesterfield Parkway North, Mail Code: GG4J, St. Louis, MO 63017. FAX: 636-737-6567. E-mail: june.j.huch@monsanto.com** EEO/AA Employer M/F/D/V. For more information, please visit our website at: [www.monsanto.com](http://www.monsanto.com)

**MONSANTO**

Food • Health • Hope™



## NATIONAL INSTITUTES OF HEALTH NATIONAL CANCER INSTITUTE ORGAN SYSTEMS BRANCH

### PROGRAM DIRECTOR OF SPECIALIZED PROGRAMS OF RESEARCH EXCELLENCE (SPORES)

**NCI-99-3010**

**GS-601/602-13/14**

**Opening Date: December 30, 1999**

**Closing Date: February 3, 2000**

The National Cancer Institute is seeking qualified applicants for a Program Director position at the Organ Systems Branch (OSB). The OSB manages an extramural multi-disciplinary translational research program termed Specialized Programs of Research Excellence (SPORES). SPORES are teams of extramural basic, clinical, and population scientists who focus on a single organ-site cancer and dedicate themselves to translational research that will have an impact on early detection, prevention, diagnosis and treatment of human cancer. The NCI defines translational research as the movement of laboratory discoveries into patient and population research settings or observations in patients and populations back into research laboratories. The incumbent will function as a key member of the OSB extramural staff and will be responsible for the management, planning, implementation, and coordination of breast, ovarian, prostate, lung, or gastrointestinal SPORES. In addition, the incumbent will be responsible for promoting and facilitating interactions among SPORES, between SPORES and the scientific community, and between the SPORE program and other extramural units of the NCI, and the NIH.

**SALARY RANGE AND FRINGE BENEFITS:** Salary ranges from \$60,890 to \$106,071 per annum. Benefits include health and life insurance, retirement, paid holidays, vacation and sick leave. Salary includes locality pay.

**BASIC QUALIFICATIONS:** U.S. Citizenship is required. Applicants must meet the basic experience and educational qualifications for U.S. Government Medical Officer and or Health Scientist Administrator positions. In order for qualifications to be validated and considered, it is **mandatory** that you submit the following with your application: a) an undergraduate and graduate transcript or course list which includes grades and semester hours received per course for all courses; b) a current curriculum vitae; and, c) a description of your proficiency in the following Knowledge, Skills and Abilities (KSAs):

- 1) **Knowledge of Federal grant application, review and management process, including site-visit planning, organization and execution.**
- 2) **Knowledge of basic, clinical and/or population cancer research.**
- 3) **Ability to plan, develop and evaluate research programs, including the formulation of program objectives and goals and assessing research programs.**
- 4) **Ability to establish and maintain professional relationships with scientists in academia, industry and government.**
- 5) **Ability to communicate scientific information orally and in writing.**

**APPLICATION PROCEDURES:** The NCI recruitment bulletin for this position contains complete application procedures and lists all mandatory information which you must submit in your application. To obtain the recruitment bulletin, call 1-800-728-JOBS (for local calls, 301-594-2953). When prompted, enter the "Fax ID Number" 1937. You will be prompted for your fax machine number. If you have any questions on qualification requirements or application procedures, or if you wish to obtain a position description or other information, please call (301) 402-2812. **PREVIOUS APPLICANTS NEED NOT REAPPLY.**

Please submit your resume, SF-171 Application for Federal Employment or OF-612 Optional Application Form by the closing date to:

**NATIONAL CANCER INSTITUTE  
NATIONAL INSTITUTES OF HEALTH  
HUMAN RESOURCE AND CONSULTING BRANCH  
6120 Executive Boulevard, MSC 7211  
Executive Plaza South, Suite 550  
Rockville, Maryland 20852-7211**

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**FACULTY POSITIONS  
IN FISHERIES AND AQUATIC CONSERVATION  
SCHOOL OF FISHERIES  
UNIVERSITY OF WASHINGTON**

We are pleased to announce the availability of five new faculty positions to cover emerging areas in systems ecology and modeling, quantitative genetics, marine stock assessment, and population dynamics related to resource conservation and management in aquatic sciences. In all cases, there is substantial opportunity for research collaboration with faculty in allied departments, and with scientists in State and Federal agencies, especially with respect to issues under the Endangered Species Act and the Magnuson-Stevens Fishery Conservation and Management Act. Teaching within increasingly integrated programs and curricula in the natural and physical sciences will be an important component of these positions.

**TENURE-TRACK POSITIONS:** Two 9-month state-funded positions will be filled at the assistant professor level, effective fall quarter 2000. Applicants must have a strong commitment to undergraduate teaching, and are expected to build an active, externally funded research program that supports graduate students. 1) **Quantitative geneticist** who will contribute to existing strengths in the areas of conservation, resource, and molecular biology. Ability to teach some combination of courses in statistics/quantitative sciences, evolutionary ecology, and general aquaculture is desirable. We particularly seek candidates whose research integrates classical and advanced molecular approaches into the study of evolutionarily important phenotypic traits, and who could make use of unique School facilities for the breeding and rearing of anadromous salmonid fishes. 2) **Aquatic Systems Modeler** who will contribute to our teaching and research programs in physical-biological coupling, modeling of systems processes, and statistics. We encourage candidates with interest in estuarine-nearshore systems. Substantial collaborative opportunities exist in modeling physicochemical forces (e.g., climate, circulation, watershed) and anthropogenic activities (e.g., exotic introductions, pollution, commercial exploitation, habitat restoration) that affect species/community dynamics.

**RESEARCH POSITIONS:** Three positions are available in the general areas of marine fisheries stock assessment, trophic ecology, and hydroacoustic methodology.

**Groundfish Stock Assessment:** Two junior research faculty positions are available to work on assessment and management of groundfish stocks in the eastern North Pacific. A candidate with exceptional qualifications may be considered for appointment at the Associate or Full Research Professor level. The successful candidates will work to augment a major program in groundfish stock assessment and population dynamics as part of an existing team of University researchers, as well as scientists at the National Marine Fisheries Service and commercial fishing groups. The successful applicants will be expected to advise graduate students, maintain an independent research program through external funding, publish in the peer reviewed literature, and serve as key liaison with government and industry. We seek applicants with experience in fisheries stock assessment as well as a strong interest in developing cooperative science programs with University, Government, and the private sector. Initial funding is anticipated for both positions for a 2-year period. The successful applicants will be responsible for perpetuating the funding for these positions and will be expected to raise additional support for students and research activities.

**Hydroacoustic Assessment of Schooling Pelagic Fishes:** One Research Assistant Professor to work on population biology and trophic ecology of marine fishes in the eastern North Pacific, to develop and test new acoustic methods to investigate community roles of dominant stocks in marine ecosystems, and to evaluate assumptions relevant to application of the technology. Desirable experience includes application of sampling design and acoustic resource surveys to estimate population abundance and development of acoustic hardware and software as research tools. The successful applicant will be expected to develop a strong, externally funded program, participate in ongoing NMFS surveys, support and supervise graduate students, and add to undergraduate research opportunities. Team research interaction with University, NOAA scientists and industry is encouraged. Applicants must be able to identify funding for initial and ongoing support of this position.

For further information about the School of Fisheries visit our website at <http://www.fish.washington.edu>

Application deadline for all positions is 15 February 2000. Qualified individuals must have an earned Ph.D. and may apply for more than one of these positions. Send a statement indicating qualifications for each position of interest, research and teaching philosophy, curriculum vitae, three reprints, and names and addresses of three references to:

**Dr. David Armstrong, Director  
Faculty Search Committee  
School of Fisheries, Box 355020,  
University of Washington, Seattle, WA 98195-5020**

*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.*

**BIOINFORMATICS AT THE  
UNIVERSITY OF MICHIGAN**

The Departments of Biology and Mathematics at the University of Michigan solicit applications for a faculty position in bioinformatics. We seek individuals who have established or show exceptional promise toward establishing a research program that applies methods of mathematical and/or computational science to fundamental questions in molecular biology. The successful candidate must have a Ph.D. in Mathematics, Biology, Cell Biology, Molecular Biology, or related field, as well as postdoctoral experience. The successful candidate will be involved in a major expansion of bioinformatics at the University of Michigan. As part of a \$200 million Life Sciences Initiative, the University of Michigan is expanding faculty, buildings, and infrastructure in the life sciences. As part of the Life Sciences Research Corridor Initiative, the State of Michigan is also investing substantial resources in a new program that will benefit the Universities, Industries and Research Foundations with Michigan. Bioinformatics will be a major component in both of these initiatives.

In addition to establishing a successful research program, the candidate will be expected to participate in undergraduate and graduate teaching and curriculum development of the departments. To apply, send a curriculum vitae, copies of selected reprints, a brief summary of present and future research plans, and arrange to have three letters of reference sent directly by February 18th, 2000 to:

**Chair, Bioinformatics Search Committee  
Department of Biology  
University of Michigan  
Ann Arbor, MI 48109-1048**

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

**WORKSHOPS**



**Base Excision Repair (BER)  
Workshop  
University of Texas Medical  
Branch  
Galveston, Texas, USA**

**March 10-13, 2000**

This meeting is designed to promote extensive discussions of a variety of issues in Base Excision Repair, ranging from the structures of the BER proteins, to regulation of repair, and relevance to disease etiology.

For more information,  
<http://www.scms.utmb.edu/ber>  
409-772-1788

## Formulation Opportunities

Human Genome Sciences, Inc. is a company with the mission to develop products to predict, prevent, detect, treat and cure disease based on technology derived from its leadership position in the discovery and understanding of human, microbial, and plant genes. We seek highly motivated individuals for:

### Scientist

Will be responsible for developing a program to produce and evaluate chemical modifications of therapeutic proteins via addition of polyethylene glycol (PEGylation). The ideal candidate will have a strong background in protein chemistry, purification, and formulation. Position covers all aspects of development from identifying PEGylation strategies, synthesizing PEGylated proteins, purification, formulation, and stability analysis. Individual will work closely with pharmacology and analytical development in evaluating candidate compounds. Qualified candidate will have a Ph.D. in Chemistry, Biochemistry, or related field with 0-5 years of experience. Preference will be given to candidates with previous PEGylation experience. Strong written and oral communication skills are expected, and knowledge of cGMPs and regulatory requirements is desired. Job Code: TS-1.

### Research Associate

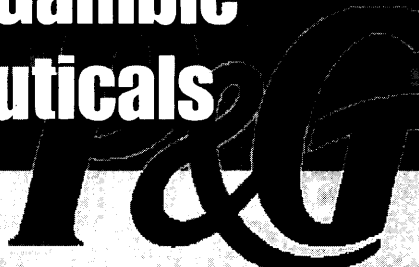
Individual will develop and test novel protein formulations for liquid, lyophilized and topical delivery. Position includes developing chemically modified proteins (PEGylated) for pre-clinical evaluation. Ideal candidate will have strong background in analytical biochemistry, protein chemistry, purification and finished product development. In addition, individual will assist in preparing batch records, SOPs and FDA documentation and work as part of a team to determine requirements of dosage forms. Qualified candidate will have a B.S./M.S. in scientific discipline with 0-3 years of experience. Strong written and oral communication skills are expected, and experience in a GMP/GLP environment and analytical techniques to evaluate product stability is preferred. Job Code: TS-2.

HGS encourages the pursuit of academic excellence and offers competitive benefits including educational reimbursement, subsidized health club membership, medical/dental/life/disability insurance programs and a 401(k) plan with employer match. Please FAX (301) 309-1845 or send your resume (indicating appropriate Job Code) to Human Resources Dept., Human Genome Sciences, 9410 Key West Avenue, Rockville, MD 20850. EOE.



Visit our Web site to learn more about us  
<http://www.hgst.com>

# Procter & Gamble Pharmaceuticals



## Ph.D. Scientist/Senior Scientist Biochemistry, Molecular Biology

*The Procter & Gamble Pharmaceuticals Discovery Anti-Infectives Biology Research department has an opening for a Ph.D. level Scientist/Senior Scientist with 2+ years previous pharmaceutical industry experience.*

The successful applicant will join an upstream research effort to evaluate new antibacterial targets, their bacteriological spectrum, and their suitability for assay development. The preferred candidates will have a Ph.D. and industrial experience in biochemistry, microbial genetics and/or molecular biology. A demonstrated working knowledge of biochemistry and prokaryotic molecular biology/genetics is required. Desirable previous experience includes: gram positive genetic systems, in vitro and in vivo models of bacterial pathogenesis, generalized protein-binding assays and/or HTS assay development, a working knowledge of biochemical pathways, and genomic/proteomics data evaluation.

The successful candidate will be able to apply new technologies as well as classical biochemical and genetic techniques as required by changing project needs. The candidate must have good organizational, interpersonal, communication, and documentation skills, as well as general bioinformatics/genomics computer skills.

*If you meet the qualifications for this position, please apply on-line at P&G's web site: <http://www.pg.com/careers/applynow>.*

*Please use ad code **NAUSR000419**.*

*Only applicants WITHOUT a U.S. Social Security Number can apply to: [doctoral.im@pg.com](mailto:doctoral.im@pg.com)*

## Ph.D. Pharmacologist

*Procter & Gamble Pharmaceuticals seeks an Antibacterial Pharmacologist for a research position in Anti-Infectives Discovery.*

The successful candidate will establish an experimental program to meet the pharmacodynamics and efficacy testing needs of all Anti-Infectives research projects. Refining existing in vivo models and establishing additional models will be an important part of the job. The ideal candidate will have a Ph.D. in microbiology, pharmacokinetics, pharmacology, or a related discipline. Hands-on laboratory research experience with in vivo models for assessing efficacy or pharmacodynamics of anti-infective agents is required.

Excellent interpersonal and leadership skills, strong communication skills, and a good working knowledge of antibacterial agents are also required.

*If you meet the qualifications for this position, please apply on-line at P&G's web site: <http://www.pg.com/careers/applynow>.*

*Please use ad code **NAUSR000385**. Only applicants WITHOUT a U.S. Social Security number can apply to: [doctoral.im@pg.com](mailto:doctoral.im@pg.com)*

*The Procter & Gamble Company is a world leader in the research, development, manufacture and marketing of a wide variety of health care, beauty care, laundry & cleaning, cosmetics & fragrances, food & beverage and paper products. P&G's annual sales exceed \$38 billion and our annual R&D investment is more than \$1.7 billion. P&G offers a competitive salary and benefits package placing us in the top 5% of U.S. firms. The Company's R&D organizations provide excellent opportunities for both personal and professional growth.*

## Procter & Gamble

**No agency referrals, please.**

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**BIOINFORMATICS POSITIONS**  
**University of North Carolina at Chapel Hill**

The School of Medicine at the University of North Carolina at Chapel Hill invites applications for four tenure-track faculty positions in Bioinformatics, Ph.D. required. Outstanding candidates at all levels with promising or established research programs will be considered. Successful applicants will be provided with laboratory space and competitive start-up funds. Applicants will have excellent opportunities for active research collaborations within the University as well as with industrial partners in the area.

This recruitment is part of a major University initiative in Genomic Sciences, in addition to similar ongoing searches on campus, including the College of Arts and Sciences. Hence, the multiple individuals to be recruited here are part of a large commitment to Bioinformatics. Focus areas of this initiative include, but are not limited to, evolutionary modeling and computational biology, high-throughput expression analysis, proteomics, structural genomics, functional genomics and genetic screens in model organisms.

**Applicants should send a curriculum vitae, a description of research plans, and three letters of reference to:**

**Dr. Dede Corvinus**  
**Office of Research**  
**43 MacNider, CB#7000**  
**University of North Carolina at Chapel Hill**  
**Chapel Hill, NC 27599-7000**

*The University of North Carolina at Chapel Hill is an equal opportunity/ADA employer. Women and minorities are encouraged to apply.*

The Search Committee will begin reviewing applications on February 15, 2000.

**DEPARTMENT OF PEDIATRICS**  
**UNIVERSITY OF PITTSBURGH SCHOOL OF**  
**MEDICINE**  
**Professor and Chair**

The University of Pittsburgh School of Medicine is seeking candidates for the Chair, Department of Pediatrics. The Chair also serves as Physician-In-Chief at the Children's Hospital of Pittsburgh. One hundred sixteen full time faculty as well as over 500 volunteer faculty comprise the Department's 16 divisions which include: asthma-allergy, cardiology, emergency medicine, endocrinology, gastroenterology, general academic pediatrics, genetics, hematology-oncology, infectious diseases, neonatology, neurology, pulmonology, renal, rheumatology and immuno-genetics. The University of Pittsburgh Department of Pediatrics is recognized nationally for its teaching, research and clinical care programs. The department enjoys substantial extramural research support and its residency training and fellowship programs consistently attract top candidates from the nation's medical schools.

- Candidates should have documented experience in academic pediatrics including demonstrated leadership abilities to direct major clinical, research, and training programs. The successful candidate must qualify for appointment as Professor of Pediatrics (tenured).

Nominations and/or letters of interest from prospective candidates will be taken until March 31, 2000 and should include a current Curriculum Vitae. Address correspondence to:

**Chair of the Search Committee**  
**Richard L. Sweet, M.D.**  
**Department of Obstetrics, Gynecology**  
**and Reproductive Sciences**  
**Magee-Women's Hospital**  
**300 Halket Street**  
**Pittsburgh, PA 15213-3180**

*The University of Pittsburgh is an equal opportunity, affirmative action employer.*

TGC is a growing Seattle-based biotech company developing gene and cell therapy products for the treatment of acquired and inherited diseases. Continued success has created the following opportunity to join our team:

**Postdoctoral Scientist**

We seek a highly motivated postdoctoral researcher to work on the Company's exciting synthetic gene delivery systems technology. This challenging position is expected to last up to three years and may provide an opportunity to join our talented team thereafter.

**Formulations/in vivo biology scientist**

Develop and characterize lipid and polymer based gene delivery systems through in vitro analysis followed by in vivo evaluation in appropriate therapeutic models of cancer and other diseases. Requires familiarity with lipid and/or polymer delivery systems and ability to characterize them with respect to in vivo suitability. Knowledge of animal disease models, histology, and technical ability to perform appropriate pharmacokinetic and formulation deposition studies, as well as assessment of gene expression in specific cell types is desired.

For consideration, please forward C.V. to:

**Targeted Genetics Corporation**  
**Human Resources**  
**1100 Olive Way, Suite 100**  
**Seattle, WA 98101**  
**Fax: (206) 521-7872**  
**e-mail: careers@targen.com**  
**homepage: www.targen.com**

Laboratory

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Your work can make a difference in our lives! **SAIC Frederick** is a contemporary biotechnology organization dedicated to the development of knowledge and tools for diagnosis, treatment and prevention of human cancer and AIDS. In fact, our headstart efforts at the NCI-Frederick Cancer Research & Development Center often pave the way for new programs at other labs worldwide.

**Sr. Scientist, DNA Array Facility**

You will direct a facility devoted to microarray analysis of gene expression and genetic variation, focusing on problems related to the induction, prevention or treatment of cancer. The position provides an opportunity to develop all aspects of this exciting technology, including creating and using the microarrays, scanning and bioinformatics approaches to analyzing gene expression data. The Frederick Array Facility Head will interface with counterparts at the NCI Advanced Technology Center in Gaithersburg and at NIH, Bethesda, as well as with NCI Principle Investigators. You will also be closely associated with a DNA sequencing laboratory located at the NCI-Frederick campus.

A strong background in molecular biology and an interest in technology development are essential. Experience with analysis of differential gene expression, especially using array technology, is preferred. Candidates must have an advanced degree and be US citizens or permanent residents with at least 2 years of previous post doctoral experience.

At Science Applications International Corporation (SAIC), we believe that people are our most valuable resource. If you desire to be part of an organization that is rapidly driving the future of science, send your resume, curriculum vitae and bibliography, letter of interest stating research goals and related experience, and three letters of reference to: SAIC Frederick, Human Resources, PO Box B, Frederick, MD 21702-1201; FAX: (301) 846-5172; e-mail: hr@mail.ncicrf.gov. EOE, M/F/D/V.

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A Division of Science Applications  
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## THREE TENURE TRACK POSITIONS LABORATORY OF NEUROSCIENCES

A newly reorganized Laboratory of Neurosciences of the National Institute on Aging is recruiting scientists for three tenure-track positions within its intramural program. Applicants must have an established record of scientific accomplishment within the neurobiology of aging or related fields and possess a strong publication record. Preference will be given to applicants with expertise in the following area:

**(1) stem cell biology; (2) electrophysiological and/or imaging analyses of synaptic plasticity in brain slice preparations; (3) invertebrate molecular biology** focused on identifying genes and cellular mechanisms that either promote or suppress aging and age-related neurodegenerative disorders, but other interests will be considered. These positions are 100% research, include an attractive set-up package and operating budget, and provide a unique and stimulating, interactive research environment that includes laboratories headed by Mark Mattson (Chief), Donald Ingram, Mark Lane, and Nigel Greig. Applicants should send curriculum vitae, bibliography, and 1,000-word overview of a proposed program along with three letters of recommendation to:

**Chair, LNS Tenure Track Search Committee,  
Vacancy # NIA 99-40(GRC), c/o Personnel Office,  
Box 26 National Institute of Aging, 5600 Nathan  
Shock Drive, Baltimore, MD 21224-6823.**

Applications must be postmarked by March 15, 2000.

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## MEETINGS

### 16th Annual Meeting on Oncogenes and Tumor Suppressors: The Evolution of the Cancer Cell



June 22nd - 25th, 2000

**The Salk Institute**

Organizers:

David Foster, Martin McMahon, Ann Marie Pendergast

The meeting is to be held on the West Coast in beautiful La Jolla, California. Emphasis will be placed on the evolution of the cancer cell through genetic changes that affect cell cycle progression, senescence, apoptosis, DNA repair, signaling pathways, cytoskeletal reorganization and metastasis. Principal Investigators, graduate students and postdoctoral fellows are all encouraged to attend. The format will consist of short oral presentations, poster sessions and plenary lectures by distinguished investigators. The meeting is an exciting forum for young investigators to present and discuss their research. Co-sponsored by the Foundation for Advanced Cancer Studies, Inc. and the Salk Institute for Biological Studies.

-Information on registration can be found at  
<http://www.salk.edu/meetings.html>

Registration: \*Abstract deadline is March 31, 2000\*  
\$750 US (includes housing and meals)  
\$600 US (includes meals only)  
\$400 US (special rate for predoctoral students  
includes housing and meals)  
\$150 US (no meals, no housing)

Application and abstract forms can be obtained from Sheila Moles,  
The Salk Institute 10010 N. Torrey Pines Rd., La Jolla, CA 92037  
(858)453-4100, Fax (858)546-0838. Email: [moles@salk.edu](mailto:moles@salk.edu)

## GLOBAL OPPORTUNITIES



## NATIONAL UNIVERSITY of SINGAPORE

### DEPARTMENT OF COMPUTATIONAL SCIENCE

#### *Faculty Appointments*

National University of Singapore (NUS) solicits applications for full-time tenure track faculty positions in the Department of Computational Science.

NUS is in the same league as the top 88 "Research Universities 1" in USA (Carnegie Classification). The Department of Computational Science is one of the few in the world that offers an interdisciplinary undergraduate major programme in computational science. Research areas in the Department include nonlinear dynamics and complex systems, computational statistical and condensed matter physics, computational quantum chemistry and molecular modelling, computational biology and computer aided drug design, computational fluid dynamics, wavelet analysis and applications, neural computing and optimization.

Applications are invited for faculty appointments at any levels in any of the following areas:

*Numerical Analysis/Scientific Computing*

*Computational Fluid Dynamics*

*Computational Electrodynamics*

*Computational Structural Mechanics*

*Computational Biology/Bioinformatics*

*Computational Chemistry*

*Computational Materials Physics*

*Geometric Modelling and Scientific Visualization*

*Complex Systems*

Successful candidates would be expected to teach undergraduate and graduate courses, supervise master and doctoral students, conduct excellent research as well as do some administrative work.

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

*Faculty Search Committee*

*Department of Computational Science*

*National University of Singapore*

*3 Science Drive 2*

*Singapore 117543*

*Facsimile: (+65) 774 6756*

*E-mail: [cshead@nus.edu.sg](mailto:cshead@nus.edu.sg)*

Deadline for submission is 31 March 2000.

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

*Only shortlisted candidates will be notified.*



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An equal opportunity employer.



**Schering-Plough**

### **MULTI-DISCIPLINARY INITIATIVES AT THE SCRIPPS INSTITUTION OF OCEANOGRAPHY**

The Scripps Institution of Oceanography, University of California, San Diego, is searching for a significant number of tenured/tenure-track faculty members who will communicate or work effectively across disciplinary interfaces. The search is open to candidates at all levels, and we particularly encourage women and minorities to apply. We anticipate that a majority of the appointments will be at the Assistant Professor level. The level of appointment will be commensurate with qualifications and experience, with salary based on published UC pay scales. Applicants must hold a Ph.D. degree and will be expected to teach and supervise students, primarily at the graduate level, conduct an extramurally funded research program, and participate in administrative functions of the department and the university.

Multidisciplinary search committees concerned with the broad areas listed below will evaluate candidates for their capacity for leadership in research and teaching.

- Biology and ecology: organismal diversity, interrelations, and connections with the physics and chemistry of the ocean
- Geology and geophysics: geological, biological, and chemical dynamics of earth and ocean systems
- Earth's climate: oceanic, atmospheric, biogeochemical, and hydrological aspects
- Coastal science: physical, geological, biological, and chemical aspects

In choosing within and across areas, the Institution will stress observations, and hopes to strengthen its teaching curriculum and broad capabilities in such areas as instrumentation, platform development, remote sensing, information management, and numerical computations. Nonetheless, the excellence of the individual candidate remains the primary qualification.

Interested candidates should submit a letter of application, a curriculum vitae, a statement of research interests, and the names and addresses of three referees to:

**Professor W. K. Melville, Chair  
Graduate Department  
Scripps Institution of Oceanography/0208  
University of California, San Diego  
9500 Gilman Drive  
La Jolla, CA 92093-0208**

The search committees will commence formal consideration of candidates on January 31, 2000, but applications will be accepted until the search is successfully completed.

*UCSD is an Affirmative Action/Equal Opportunity Employer.*

### **MEETINGS**

#### **BRAIN UPTAKE AND UTILIZATION OF FATTY ACIDS**

**Applications to Peroxisomal Biogenesis  
Disorders  
(An International Workshop)**

**March 2-4, 2000**

Holiday Inn Bethesda, Bethesda, MD

Presentations and round table discussions will explore mechanisms of fatty acid transport across the blood-brain barrier, the role of astrocytes and neurons in processing and distribution of polyunsaturated fatty acids in the brain, the physiologic roles of docosahexaenoic acid in the neuron and the feasibility of using animal models for the study of neuronal structure and function.

**POSTER SESSION** All participants are invited to submit an abstract for poster presentation by February 1, 2000.

**TRAVEL AWARDS** for graduate students are available.

**REGISTRATION** deadline is February 1, 2000.

#### **Organizers:**

Paul Watkins (Kennedy Krieger Institute)  
James Hamilton (Boston University)  
Arthur Spector (University of Iowa)  
Robert Katz (Omega-3 Research Institute, Inc.)

#### **Sponsors:**

Kennedy Krieger Institute  
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**INFORMATION** and forms are available on our web site: [www.kennedykrieger.org/whatsnew/newevents/events.htm](http://www.kennedykrieger.org/whatsnew/newevents/events.htm)



**National Institute on Aging  
BLSA DIRECTOR  
Intramural Research Program  
National Institute on Aging/Laboratory of Clinical Investigation  
National Institutes of Health**

The NIA's Laboratory of Clinical Investigation is searching for a Director of the Baltimore Longitudinal Study of Aging (BLSA). The tenured position requires an M.D. or M.D., Ph.D., knowledgeable in aging or age-related research. Applicant should have senior leadership in biomedical or epidemiological science, understanding of strengths of long-term longitudinal study design, strong record of peer-reviewed extramural funding and outstanding publication record.

Please submit a curriculum vitae, summary of current research, selected publications, and three letters of recommendation to:

**Mrs. Teri N. Stachowiak  
Personnel Management Specialist  
National Institute on Aging  
5600 Nathan Shock Drive  
Baltimore, MD 21224**

Applications must be postmarked by February 28, 2000.

*NIA is an Equal Employment Opportunity Employer.*



**MAYO CLINIC  
POSTDOCTORAL POSITION**

A postdoctoral position is available immediately with an active group investigating the immune response to Theiler's virus. The central focus of this research effort is to understand the role of virally encoded peptides that are recognized by cytolytic T lymphocytes in inducing resistance versus susceptibility to demyelinating disease in a mouse model of multiple sclerosis. A PhD, MD or DVM degree is required and experience in virology, in vitro assays of cellular immunology and basic methods of molecular biology is preferable. Send a curriculum vitae, description of research experience, and the names and addresses of three references to:

**Moses Rodriguez, MD  
(rodriguez.moses@mayo.edu)  
Or**

**Larry Pease, PhD  
(pease.larry@mayo.edu)  
Department of Immunology  
Mayo Clinic  
200 First Street SW  
Rochester, MN 55905**

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

**SAMUEL LUNENFELD RESEARCH INSTITUTE**

**Model Organism Genetics**

We invite applications for an independent faculty level investigator using genetic approaches in non-mammalian model organisms (e.g., *Drosophila*, *C. elegans*, etc.) to study mechanisms controlling development or disease. We encourage applicants from any area of biology, including behaviour and nervous system development. Our Institute comprises a highly interactive group of investigators with particular strengths in genetics and development of mouse, *C. elegans*, and yeast, cell signaling, proteomics, and a major research initiative in models of human disease. The successful candidate will be a member of the Program in Development and Fetal Health, and be cross-appointed to an appropriate department at the University of Toronto, providing accessibility to a large group of excellent trainees. Membership in the interdepartmental program in Developmental Biology will facilitate interactions with other model organism researchers across the University. See our web site ([www.mshri.on.ca](http://www.mshri.on.ca)) for more information about our Institute.

Interested candidates, please submit your curriculum vitae, a brief statement of future research interests, and three letters of reference, in confidence, by

**February 20, 2000, to: Dr. Joseph Culotti,  
Chair, Search Committee, Samuel  
Lunenfeld Research Institute, Mount  
Sinai Hospital, Room 875, 600 University  
Avenue, Toronto, Ontario, Canada,  
M5G 1X5. Fax: (416) 586-8588. E-mail:  
[culotti@mshri.on.ca](mailto:culotti@mshri.on.ca)**



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**St. Jude Children's  
Research Hospital**

ALSAC • Danny Thomas, Founder

## **FACULTY POSITIONS IN BIOCHEMISTRY**

### **St. Jude Children's Research Hospital**

The Department of Biochemistry invites applications for a faculty position. Although preference will be given to applicants who have recently completed postdoctoral training and are seeking positions at the Assistant Professor level, investigators with appropriate research interests and qualifications will be considered for positions of higher faculty rank. Candidates with programs focusing on the regulation of cell growth, differentiation and transformation, the biochemistry and molecular biology of signal transduction or mechanisms in gene regulation are particularly encouraged to apply. St. Jude Children's Research Hospital provides a highly supportive and interactive environment in which to establish independent research programs. Opportunities exist to collaborate with individuals in several Departments including the Departments of Tumor Cell Biology (Chaired by C. Sherr), Neurobiology (T. Curran and J. Morgan), Genetics (G. Grosveld), Immunology (P. Doherty), Pathology (J. Downing), Pharmacology (P. Houghton), Pharmaceutical Sciences (W. Evans), Hematology/Oncology (M. Kastan), Structural Biology (S. White), and Infectious Diseases (E. Tuomanen). St. Jude Children's Research Hospital provides outstanding support for research activities through the Hartwell Center for Bioinformatics and Biotechnology as well as various support laboratories in other areas. Construction of a new building is underway to significantly expand the facilities available for exploitation of animal models. Excellent start-up packages are provided to recruits, generous benefits packages are available and the salaries are nationally competitive.

Applicants should submit a curriculum vitae, a letter summarizing their research accomplishments and goals and the names of three references to:

**Dr. James N. Ihle, Chairman  
Department of Biochemistry  
St. Jude Children's Research Hospital  
332 North Lauderdale  
Memphis, TN 38105 USA**

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**W H E R E**

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**MedImmune, Inc.** We are a Maryland-based biotechnology firm known for developing and marketing innovative healthcare products. From organ transplantations, to cancer, to a spectrum of infectious and autoimmune diseases—we are there, searching for ways to improve the quality of human life. We are seeking the following professional for our facility in Gaithersburg, MD.

### **Postdoctoral Fellow**

You will study oligosaccharide structure and antibody-antigen binding on biopharmaceutical products, such as humanized monoclonal antibodies and recombinant vaccines, using capillary electrophoresis with laser-induced fluorescence detection. Prior experience with development and optimization of capillary electrophoresis assays with LIF detection is required.

Candidate should possess a Ph.D. in Chemistry or Biochemistry, with 3-5 years' experience in the above mentioned techniques. In addition, candidate must have a publication record of achievements, excellent interpersonal skills, and organizational skills. Individuals with previous postdoctoral experience will be considered for this one-year renewable position.

Please forward resumes to: **MedImmune, Inc., HR Dept., indicating Job Number: 3200-007, 35 West Watkins Mill Road, Gaithersburg, MD 20878. Fax: (301) 527-4215. E-mail: [jobopenings@medimmune.com](mailto:jobopenings@medimmune.com) EOE, M/F/D/V.**

Visit our website:  
**[www.medimmune.com](http://www.medimmune.com)**



**MedImmune, Inc.**

## **Science**

### **Associate Editor in the Biological Sciences**

*Science* is pleased to announce an exciting opportunity to join our expanding editorial team. We are seeking an energetic Associate Editor in the biological sciences with expertise in immunology and cell biology, particularly the cell cycle and cell death. Applicants should have a broad range of interests in science, two or more years of postdoctoral experience, and multiple publications. Enthusiasm and breadth of knowledge of cutting-edge research in several fields are definite assets. Responsibilities include managing the review, selection, and editing of manuscripts, solicitation of Reviews and special issues, and fostering contacts and communication with the scientific community. The position is for either our Washington, DC, or Cambridge, UK, offices.

*To apply please submit a cover letter describing your qualifications and salary requirements, résumé, and contact information for three references to:*

**Mr. Gregory Stokes  
American Association for the Advancement of Science  
Human Resources Department, Suite #100  
1200 New York Avenue, NW  
Washington, DC 20005  
EOE/Nonsmoking work environment**



### Tenure-Track Faculty Position in Behavioral Neuroscience

Georgia State University is engaged in a major expansion of its research and instructional programs in **Behavioral Neuroscience** as part of the recently launched **NSF Science and Technology Center for Behavioral Neuroscience**. Generous state and institutional funds along with \$20 million from the National Science Foundation has been committed to fund the Center for the first five years. The Center is a consortium of more than 60 neuroscientists from Georgia State and other Atlanta area universities including the Atlanta University Center, Emory University, Georgia Tech and Morehouse Medical School. The purpose of the center is to foster interdisciplinary collaborative approaches toward understanding the basic neural mechanisms underlying the regulation of complex social behaviors and emotions. The center is also designed to enhance minority participation in science, to encourage technology transfer to industry, and to aid in bringing research findings to the public.

The Department of Biology at Georgia State University invites applications for a tenure-track position in **Behavioral Neuroscience**. We are particularly interested in individuals who employ *molecular and cellular approaches* to the study of how *neurochemical signals* regulate behavior. The successful candidate appointed at the Assistant Professor level will be expected to establish a vigorous, independent, externally funded research program. Applicants at more senior levels should have an established, externally funded research program. All faculty members also participate in instruction at the undergraduate and graduate levels.

The Biology Department has a large and active research faculty, outstanding research and core facilities, and M.S. and Ph.D. training programs (See <http://biology.gsu.edu>). Our expanding program in neuroscience includes two interdisciplinary Centers at Georgia State focused on neuroscience research (See <http://biology.gsu.edu/neurosci>).

Applicants should include a CV, reprints of recent papers, at least three letters of recommendation, and a statement of future research plans.

Send application to:

**Dr. H. Elliott Albers**  
Chair of the Behavioral Neuroscience  
Search Committee  
Dept. of Biology  
Georgia State University  
P.O. Box 4010  
Atlanta, GA 30302-4010.

Review of applications will commence on January 1, 2000 and continue until the position is filled. Georgia State University, a Unit of the University System of Georgia, is an EEO/AA Employer.



## Database Informatics: Biologist

Professional positions are available in the expanding Bioinformatics Programs at The Jackson Laboratory working with the Mouse Genome Database, Gene Expression Database and the new Mouse Sequence Database. Successful candidates will be primarily responsible for data acquisition and analysis, evaluating and annotating data to be incorporated into the databases, integrating information from disparate sources, and interacting with research laboratories to facilitate electronic data contributions. In addition, they will participate in database and interface design work, through input into database content and display concepts. Applicants should be experienced in molecular biology or mammalian systems and versed in genetics, genomics, cellular or developmental biology. Other desirable attributes include excellent writing/communication skills, experience relevant to a particular data domain, and user-level experience with UNIX/Windows/MacOS. Ph.D. degree in Life Sciences or M.S. with appropriate experience required.

The Jackson Laboratory is one of the world's foremost centers for mammalian genetics research. Located in Bar Harbor, Maine, the lab is adjacent to Acadia National Park. Mountains, ocean, forests, lakes, and trails are all within walking distance. If you love high tech challenges but you're looking for a more natural environment, this could be the opportunity you've been searching for.

**Qualified candidates should send resume to:** The Jackson Laboratory,  
Human Resources, 600 Main St., Bar Harbor, ME 04609 **Fax:** 207-288-6106  
**Email:** [jobs@jax.org](mailto:jobs@jax.org) EOE/AA

<http://www.jax.org>



### MAYO CLINIC POSTDOCTORAL FELLOWSHIP

A three year postdoctoral fellowship in the use of viral vectors for the gene therapy of cancer is available immediately in the laboratory of Dr. Richard Vile at Mayo Clinic in Rochester, Minnesota. Expertise in the construction and use of adenoviral vectors is essential and experience of retroviral vectors would be advantageous. The laboratory is focused on the development of gene transfer therapies for cancer using a range of therapeutic genes and vector systems and is situated within the Molecular Medicine Program headed by Dr. Stephen Russell.

Applications along with curriculum vitae and all relevant publications should be sent by the closing date, January 31, 2000 to:

**Richard Vile, PhD**  
C/O Ms. Toni Higgins  
Mayo Clinic  
Guggenheim-18  
200 First Street SW  
Rochester, MN 55905  
Phone: 507/284-9941  
E-mail: [vile.richard@mayo.edu](mailto:vile.richard@mayo.edu)

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



### Postdoctoral Fellowship at NIH HIV Research

A postdoctoral position is available for molecular studies on replication of HIV and development of new anti-HIV strategies. Research projects include the role of the viral nucleocapsid protein in HIV reverse transcription and investigation of virus assembly. Applicants should have a strong background in molecular biology and some experience working with RNA and enzymes; virology background desirable. Less than five years of postdoctoral experience is required. Please send a curriculum vitae, bibliography, and the names and addresses of three references to:

**Dr. Judith G. Levin, Chief**  
Section on Viral Gene Regulation  
Laboratory of Molecular Genetics  
NICHD, Building 6B, Room 216  
NIH  
Bethesda, MD 20892-2780  
Fax: (301) 496-0243

Email: [judith\\_levin@nih.gov](mailto:judith_levin@nih.gov)  
Website: <http://dir.nichd.nih.gov/lmg/svgr/index.htm>

*NIH is an Equal Opportunity Employer.*



**NATIONAL UNIVERSITY OF SINGAPORE  
DEPARTMENT OF PHYSICS  
Faculty Search**

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

Preference will be given to applicants who specialize in the following areas:

*Nuclear Microprobe Technology and Applications*

*Surface and Materials Physics*

*Mesoscopic and Nano-device Physics*

*Optical Physics*

*Biophysics*

*Physics of Macromolecules*

Candidates with outstanding potential and promise will be considered even if their fields of specialization do not fall within the above categories. They should possess leadership qualities and are expected to build up the respective research strengths in the Department.

NUS is in the same league as the 88 top "Research 1 universities" in USA (Carnegie Classification), and faculty can expect at least the same salary levels and research support as these top universities.

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

*Associate Professor C H Lai  
Head, Department of Physics  
National University of Singapore  
Block S12, Lower Kent Ridge Road  
Singapore 119260  
Email: phylaich@nus.edu.sg*

The deadline for complete applications is April 01, 2000.

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

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## POSITIONS OPEN

**TENURE-TRACK FACULTY POSITION  
CENTER FOR ADVANCED RESEARCH  
IN BIOTECHNOLOGY  
Functional Genomics**

Applications are invited for a tenure-track faculty position at the Center for Advanced Research in Biotechnology (CARB). We seek applications in the general area of experimental functional genomics, particularly monitoring of gene expression, measurement and localization of proteins and metabolites in cells, and analysis of the interactions between proteins and other cell components from a systems viewpoint. The successful candidate will be expected to develop a strong, independent, externally funded research program and to work closely with the established structural genomics program at CARB. We are located in the heart of the Washington, D.C., biotechnology area, providing many opportunities for interactions with other genomics-oriented institutions and companies.

CARB is a joint research center of the University of Maryland Biotechnology Institute and the National Institute of Standards and Technology, devoted to basic research in the area of macromolecular structure, function, and engineering. The present opening is for a University of Maryland position at the rank of **ASSISTANT or ASSOCIATE PROFESSOR**, although in exceptional circumstances more senior applications may be considered. Applicants should submit a curriculum vitae together with a summary of research plans and have three letters of recommendation sent to:

**Chair, Functional Genomics Search Committee  
Center for Advanced Research in Biotechnology  
9600 Gudelsky Drive  
Rockville, MD 20850-3479**

Review of applications will begin March 15, 2000. The University of Maryland is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and candidates with disabilities are encouraged to apply.

## POSITIONS OPEN

**POSTDOCTORAL POSITIONS  
HARVARD MEDICAL SCHOOL**

Immediate positions available to study the mechanisms of Ebola virus entry, the interplay between host and signaling mechanism(s) involved in HIV-1 infection, and strategies for the gene therapy of AIDS. Projects include the use of our 15 billion member human sfv-phage display library for the isolation and *in vitro* and *in vivo* testing of intracellular antibodies as discovery tools to delineate mechanisms of viral pathogenesis (*Gene Therapy* 4:11, 1997; *J. Immunol. Meth.* 231:207, 1999). Moloney and lentivirus vectors are used for *in vivo* delivery of intracellular antibodies to evaluate their use as gene therapeutics for AIDS (*Mol. Med.* 2:96, 1997; *Human Gene Therapy* 10:1453, 1999; *ibid* 10:2505, 1999; *J. Immunol. Meth.* 231:223, 1999). Recent Ph.D. and experience in molecular virology/immunology are required. Send curriculum vitae, brief description of research experience, and names of three references to: **Dr. Wayne A. Marasco, Dana-Farber Cancer Institute, JF 824, 44 Binney Street, Boston, MA 02115. FAX: 617-632-3889. Equal Opportunity Employer.**

**BIOLOGY.** Growing biology department. Methodist College, an Equal Opportunity Employer, welcomes applications for an **INSTRUCTOR** to teach biology classes. Requires a minimum of a Master's degree in some field of biology and a demonstrated commitment to quality undergraduate instruction. Teaching responsibilities include introductory biology courses with possibility of upper-division course in area of specialization. Send letter of application, transcripts, and three letters of reference to: **Margaret D. Folsom, Chair Biology, Methodist College, 5400 Ramsey Street, Fayetteville, NC 28311-1420.** Applications close February 10, 2000. *Methodist College, in harmony with its tradition, takes seriously its role in the ethical and moral development of its students. Members of populations traditionally underrepresented in higher education are encouraged to apply.*

## POSITIONS OPEN

**TENURE-TRACK POSITION**

The Macromolecular Crystallography Laboratory, Division of Basic Sciences, National Cancer Institute, invites applications for a tenure-track position in protein crystallography. Candidates should have the potential to develop an independent, basic research program in structure-based studies of chemokines, chemokine receptors, and their interactions, as relevant to problems of understanding and/or treatment of cancer and AIDS. Candidates with confirmed expertise in protein crystallography and a record of structure solution and interpretation within that area of interest are encouraged to apply. This **PH.D. POSITION** will offer a salary commensurate with education and experience. To apply, please send a one- to two-page statement of research interests and goals, copies of three publications, and a curriculum vitae to: **Ms. Diane Simmons, Executive Secretary, National Cancer Institute-FCRDC, P.O. Box B, Building 428, Frederick, MD 21702.** In addition, please arrange for three letters of recommendation to be sent directly to the address above. *Candidates must be U.S. citizens or permanent residents.* Applications must be received within one month of this announcement. *The National Cancer Institute is an Equal Employment Opportunity and Affirmative Action Employer that values and fosters diversity throughout the entire organization.*

**CASE WESTERN RESERVE UNIVERSITY**

Two visiting teaching positions are available at the **ASSISTANT PROFESSOR** level for the academic year 2000/2001 in the areas of (1) cell and/or molecular biology, and (2) physiology and/or ecology. Previous teaching experience is required. Candidates should send a current curriculum vitae and a statement of their teaching experience and philosophy and have three letters of recommendation sent to: **Dr. Norman Rushforth, Chair, Department of Biology, Case Western Reserve University, Cleveland, OH 44106. E-mail: xx080@po.cwru.edu.** *Affirmative Action/Equal Opportunity Employer.*



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**www.sciencecareers.org**

## GLOBAL OPPORTUNITIES

Food Science Australia is Australia's largest food research and development organisation. It is a joint venture of the CSIRO Division of Food Science and Technology and the Australian Food Industry Science Centre (AFISC). It offers world-class scientific expertise which can assist the Australian food industry to compete in the global market, and it has pilot plant facilities and laboratories strategically located in Sydney, Melbourne and Brisbane, near the heart of major food-processing industry centres. Food Science Australia has some 300 highly qualified and experienced staff with a range of skills in food-related disciplines as diverse as microbiology, engineering, chemistry, food technology and nutrition, and provides research and technical services at every stage of the food business system.

**FOOD SCIENCE AUSTRALIA**  
A JOINT VENTURE OF CSIRO AND AFISC

### ***Research Scientist/Scientific Leader***

**LOCATION:** Melbourne, Australia

**Salary Package:** AUD\$52-90K

Food Science Australia seeks to appoint a research leader/scientific innovator with an outstanding track record in developing exciting new areas of research, and following through on ideas and concepts to the successful development of commercial projects. You will have demonstrated expertise in food chemistry, protein chemistry, process/chemical engineering, protein functional assessment, and ingredient applications development. This position offers significant challenges and rewards for someone with scientific excellence, vision, creativity, and the capacity to perform and to lead and mentor junior scientists.

You will have a relevant postgraduate qualification together with significant experience in food research or in the food industry in a relevant role. You will be able to demonstrate a history of generating ideas leading to the creation of commercial contracts.

**Contact:** Ms Margaret Mahony phone: +61 3 9742 0335; fax: +61 3 9742 0204; email: [margaret.mahony@foodscience.afisc.csiro.au](mailto:margaret.mahony@foodscience.afisc.csiro.au) for copies of the position statement and selection criteria, and for further information. Applications quoting **Ref. No. FSGW7HD** must address the selection criteria and close on 10 March 2000. Please send your applications marked **confidential**, listing the names and addresses of three referees, to: Human Resources Officer, Food Science Australia, PO Box 20, Highett, Melbourne 3190, Australia.



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## GLOBAL OPPORTUNITIES

**BRUCE RAPPAPORT FACULTY OF MEDICINE  
TECHNION-ISRAEL INSTITUTE OF TECHNOLOGY  
HAIFA, ISRAEL**

### **TENURE TRACK POSITION FOR ESTABLISHED SCIENTIST**

Applications are invited for tenure-track positions for established leader in the field of life sciences such as molecular genetics, molecular cell biology, molecular neuroscience and developmental biology. Positions will be available starting October, 2000. Applicants must be at the level of Associate or Full Professor and have proven excellence in research and ability to obtain extramural funds and willingness to teach medical, undergraduate and graduate students. Generous laboratory space, start-up funds and technical assistance will be available to the appropriate candidates.

### **TENURE TRACK POSITION (junior level)**

Applications are invited for tenure-track positions at the junior level (assistant professor) that will be available starting October, 2000. Ph.D. and/or M.D. degree training are required in addition to post-doctoral training. Excellence in research and willingness to teach medical, undergraduate and graduate students will be of prime importance for decisions of the research committee. Candidates are expected to develop independent, extramurally funded research, and take part in teaching commitments in one of the following fields:

1. Anatomy and Cell Biology
2. Physiology and Biophysics
3. Pharmacology

Start-up funding, laboratory space and technical assistance will be available to the appropriate candidate.

Applications including curriculum vitae, list of publications, one page describing future research plan and four letters of recommendation should arrive by March 1, 2000 and should be sent to:

**Prof. Moshe Gavish**  
**Rappaport Faculty of Medicine**  
**P.O.B. 9649,**  
**Bat Galim, Haifa**  
**Israel, 31096**

**E-mail:** [mgavish@technion.ac.il](mailto:mgavish@technion.ac.il)

## POSITIONS OPEN

### FACULTY POSITIONS IN PUBLIC HEALTH AND FOOD SAFETY

The Department of Veterinary Microbiology and Preventive Medicine at Iowa State University invites applications for two tenure-track (nine-month) positions at the **ASSISTANT PROFESSOR** level. One position is in the area of public health and zoonotic diseases; the other is in food safety. Both positions require the development of an independent, extramurally funded, basic research program (75% effort). The public health position research program will focus on zoonotic diseases, utilizing molecular microbiological and/or epidemiological approaches. Teaching responsibilities will include participation in courses for D.V.M. and graduate students in public health, including zoonotic diseases. This position requires a professional degree (D.V.M., M.D.) and Doctoral-level degree (Ph.D., D.P.H.). Board certification (or eligibility) in veterinary preventive medicine or related field is preferred. The food safety position research program will focus on molecular microbiological approaches to study of pre- or postharvest safety of foods of animal origin. A research focus on mechanisms of antimicrobial resistance of foodborne pathogens is also appropriate. Instruction (20% effort) will include participation in courses for D.V.M. and graduate students on the subject of food safety. This position requires the Ph.D. degree. The D.V.M. degree and postdoctoral experience are preferred.

Iowa State University offers a competitive start-up package, modern research space, and opportunities to collaborate with scientists at the USDA/ARS National Animal Disease Center, the USDA/APHIS National Veterinary Services Laboratories, the University of Iowa School of Public Health, and the multiuniversity Food Safety Research Consortium. Proposed start date for both positions is July 1, 2000, and applications will be reviewed beginning March 15, 2000. Candidates should send a letter of application, including a statement of research interests, curriculum vitae, and three letters of reference (under separate cover) to: **Dr. James A. Roth, Chair, Search Committee, Department of V.M.P.M., 2160 Veterinary Medicine, ISU, Ames, IA 50011.** *Iowa State University is an Affirmative Action/Equal Opportunity Employer.*

### DIRECTOR OF RESEARCH AND DEVELOPMENT UNIVERSITY OF NEBRASKA MEDICAL CENTER

#### Olson Center for Women's Health Department of Obstetrics and Gynecology

The Department of Obstetrics and Gynecology at the University of Nebraska Medical Center is seeking a Director of Research and Development for the Olson Center for Women's Health. The Olson Center for Women's Health, which resides within the Department of Obstetrics and Gynecology, is a multidisciplinary women's health center with endowments for education and research. Professional responsibilities for this position will include leading the Department of Obstetrics and Gynecology's clinical research efforts and facilitating and coordinating collaborative research between departments within the College of Medicine and the medical center at large. The ideal candidate for this position will possess a Ph.D. degree or M.D. degree. Equivalent degrees in biostatistics, epidemiology, or public health are also acceptable. Academic rank for this tenure-track position is open and dependent on qualifications and experience. Candidates currently active in independent investigation are preferred, and current grant support is desirable but not required. Interested individuals should forward their curriculum vitae to: **John T. Repke, M.D., Chris J. and Marie A. Olson Professor and Chairman, Department of Obstetrics and Gynecology, Chairman, Advisory Committee, Olson Center for Women's Health, University of Nebraska Medical Center, 983255 Nebraska Medical Center, Omaha, NE 68198-3255. Telephone: 402-559-2711; FAX: 402-559-2712; e-mail: jrepke@unmc.edu.** *UNMC is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN



### FACULTY POSITION BIOCHEMISTRY/MOLECULAR BIOLOGY

The Department of Biochemistry and Molecular Biology at the University of South Alabama College of Medicine seeks applicants for a tenure-track **ASSISTANT PROFESSOR** to begin as early as July 1, 2000. Depending on experience, outstanding candidates at a higher position level will also be considered. Excellent salary, start-up funds, and laboratory space will be provided. Candidates must show strong promise of maintaining extramural funds for their research and are to train both graduate and medical students. Those whose research combines biochemistry, molecular biology, and other experimental methods to study mechanisms of human disease are especially encouraged to apply. A major area of our interest is cancer biology, including cell proliferation, apoptosis, gene transcription, signal transduction, development, differentiation, extracellular matrix, or cell adhesion. Excellence of the individual is more important than the research field. Consideration of applications begins January 31, 2000. Send curriculum vitae, representative publications, a statement of research goals, and names of three references to: **Dr. Nathan Aronson, Chairperson, Department of Biochemistry and Molecular Biology, MSB 2146, University of South Alabama College of Medicine, Mobile, AL U.S.A. 36688. Website: <http://southmed.usouthal.edu/com/biochem>.** *The University of South Alabama is an Equal Opportunity/Affirmative Action Employer.*

### TENURE-TRACK PROFESSOR CHEMICAL ENGINEERING AND MATERIALS SCIENCE University of Minnesota

We are looking to fill a new position in our Materials Science Program. The Department will consider outstanding candidates in any area of materials science, but preference will be given to candidates with research interests in electronic or magnetic materials, metals, intermetallics, powder metallurgy, composites, high-temperature structural materials, or similar hard material field. We expect to fill the position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. The selected candidate will be expected to build a strong research program and to develop courses at the undergraduate and graduate level. We strongly encourage interactions within the Department, elsewhere within the Institute of Technology, and with industry. The University has several central research facilities, including a materials characterization facility, a microelectronics laboratory, and a supercomputing center. A doctoral degree in materials science, metallurgy, or a related MS and E field is required; experience at the postdoctoral level will be an advantage. A complete curriculum vitae, including a list of publications, the names and contact information of three references, and a brief (200-500 word) description of research goals should be sent to: **Materials Science Search Committee Chair, Chemical Engineering and Materials Science, Amundson Hall, 421 Washington Avenue, S.E., Minneapolis, MN 55455.** Information on the Department, the current faculty, and the University is available at website: <http://www.cems.umn.edu/cbc-bin/facultysearch.pl>. Review of the applications will begin on March 1, 2000, and continue until the position is filled. It is hoped that the successful candidate will be in place for the start of the fall 2000 semester (September 1). *The University of Minnesota is an Equal Opportunity Educator and Employer.*

## POSITIONS OPEN

### ASSISTANT DEAN COLLEGE OF LETTERS AND SCIENCE UNIVERSITY OF WISCONSIN-MADISON

The College of Letters and Science and the Office of University-Industry Relations are seeking nominations and applications for a full-time Assistant Dean position. The incumbent will serve as Assistant Dean working with the College of Letters and Science faculty and staff on technology transfer efforts at the UW-Madison.

Degree and specialization: Ph.D. in a science-related field is required, with demonstrated research ability so as to ensure an understanding of the research process and technologies originating from faculty and to establish credibility with faculty and outside contacts.

Experience: At least five years of experience is required to include a combination of management, marketing, technology transfer, and research activities. Experience in patenting and/or copyrights is desirable. Both business and academic experience is desirable, as well as an appreciation of the mission and priorities of the College of Letters and Science (**website: [www.LS.wisc.edu](http://www.LS.wisc.edu)**). Unless confidentiality is requested in writing, information regarding applicants and nominees must be released upon request. Finalists cannot be guaranteed confidentiality.

Deadline date for receipt of application: March 1, 2000.

A detailed position description can be viewed on the University-Industry Relations (UIR) **website: <http://www.wisc.edu/uir>**. For full consideration, send a cover letter, complete résumé, and three letters of reference to:

**Associate Dean Herbert Wang  
College of Letters and Science  
University of Wisconsin-Madison  
Room 102 South Hall  
1055 Bascom Mall  
Madison, WI 53705  
Telephone: 606-263-7221**

*The University of Wisconsin is an Equal Opportunity and Affirmative Action Employer.*

### ENDOWED FACULTY POSITION LINUS PAULING INSTITUTE OREGON STATE UNIVERSITY

The Linus Pauling Institute invites nominations and applications for an endowed faculty position, called the Ava Helen Pauling Professor, at the level of **ASSOCIATE** or **FULL PROFESSOR**. The appointee will have his/her academic home with tenure in one of OSU's departments or colleges. Applicants should have a Ph.D. degree in biochemistry, molecular biology or a related discipline, or an M.D. degree; a distinguished record of scientific publications and leadership in their disciplinary field (e.g., invited participation as symposium speaker, citation impact on field, invited reviews); and a demonstrated ability to initiate and maintain a successful, externally funded research program. The area of the appointee's research specialization must be human-health related and fall within the mission of the LPI, which is to determine the function and rule of micronutrients, phytochemicals, and microconstituents of food in promoting health and preventing and treating disease. The Institute is particularly interested in adding expertise in the areas of neurodegenerative disorders, inflammatory-immune injuries, and the genetic basis of human health, but applications in other areas will also be considered. Additional information about the Institute can be obtained at **website: <http://osu.orst.edu/dept/lpi>**. Applicants should submit a curriculum vitae; a statement of research accomplishments and goals; and the names, addresses, and telephone numbers of three references to: **Balz Frei, Ph.D., Chair, LPI Search Committee, 571 Weniger Hall, Oregon State University, Corvallis, OR 97331. FAX: 541-737-5077.** For full consideration, apply by March 1, 2000: Position shall remain open until filled. *OSU is an Affirmative Action/Equal Employment Opportunity Employer and has a policy of being responsive to dual-career needs.*

## DIGITAL GENE TECHNOLOGIES, INC.

Genomics is revolutionizing drug development, gene therapy, and our entire approach to healthcare and human medicine. Translating genomics-based discoveries into practical biomedical results presents the challenge of the decade. Digital Gene Technologies is expanding to meet this challenge.

DGT is a total gene expression company combining patented genomics technology with advanced bioinformatics to identify and determine anatomical distribution and expression patterns of the genes contained in any cell or tissue sample.

### Director TOGA Technology

The Director will manage the operation of DGT's TOGA™ gene expression technology. In this role, the individual will direct the activities of teams of molecular biologists and robotics specialists to deliver gene expression data for corporate, academic, and in-house projects. The individual will work closely with senior management to evaluate operations, review scientific data, and develop plans for technology innovation. Experience with genomic technologies and instrumentation is essential, including DNA sequencing (ABI377 and 3700), cDNA library construction, and PCR. We are seeking a highly motivated scientist with a Ph.D. in life sciences and 8+ yrs experience in industry. Strong management experience with a proven track record in molecular biology is required.

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



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## MEETINGS AND ANNOUNCEMENTS



## Targets & Molecules: The Science of Drug Discovery

March 8 - 10, 2000

Arranged by:

David Stewart, Bruce Stillman & Jan Witkowski  
(Cold Spring Harbor Laboratory)

### Topics

- \* Infectious Diseases \* Cancer \* Neuroscience
- \* Cardiovascular-related Diseases
- \* Controversial Issues in Intellectual Property

Confirmed speakers include:

Dani Bolognesi, <i>Trimeris, Inc.</i>	Dennis Selkoe, <i>Harvard Medical School</i>
Martin Citron, <i>Amgen, Inc.</i>	Laura Shawver, <i>Sugen, Inc.</i>
Peter Colman, <i>Biomolecular Research Institute</i>	Pieter Timmermans, <i>Tularik, Inc.</i>
Edward Gimmi, <i>SmithKline Beecham</i>	Lex Van der Ploeg, <i>Merck Research Laboratories</i>
Dennis Henner, <i>Genentech</i>	George Yancopoulos, <i>Regeneron Pharmaceuticals</i>
Steven Holtzman, <i>Millenium</i>	
Peter Lansbury, <i>Brigham and Women's Hospital</i>	

Further speakers will be announced via our web site.

## Cold Spring Harbor Laboratory

Meetings & Courses Programs, 1 Bungtown Road,

Cold Spring Harbor, NY 11724-2213

Email: [meetings@cshl.org](mailto:meetings@cshl.org)

Phone: 516-367-8346

[www.cshl.org/meetings/](http://www.cshl.org/meetings/)

Fax: 516-367-8845

## EUROPEAN OPPORTUNITIES



## Max-Planck-Institut

für kolloid-und Grenzflächenforschung

The Max-Planck-Institute of Colloids and Interfaces in Golm/Potsdam seeks an outstanding candidate to lead a research group ("Nachwuchsgruppe") devoted to

### Colloid Physics

The field may range from bio-colloids to inorganic colloids, questions relating hierarchical structures from nm to macroscopic length scales. The candidate should be able to collaborate with the existing departments of Colloid Chemistry (Prof. Antonietti), Theory (Prof. Lipowsky) and Interfaces (Prof. Möhwald). The successful candidate should have several years of post-doctoral research experience and a record of achievements in the relevant research areas. The institute is located in the greater Berlin area and collaborates with the Berlin universities, the University of Potsdam and local Neutron (Hahn-Meitner-Institute) and Synchrotron (BESSY) sources.

The appointment will be at a level equivalent to Assistant/Associate Professor for five years. Remuneration will be paid at the C2/C3 level with all public service benefits. Additional positions for post-doctoral fellows and/or Ph.D. students as well as space and operating and equipment funds will be made available, subject to negotiation.

Candidates should submit a curriculum vitae, a list of publications, a short description of their future research plans, and the names of three scientists who are familiar with the candidate's research accomplishments and scientific potential.

The Max-Planck-Institute strives for advancement of women in research and teaching.

Applications from disabled scientists are welcome; in case of equal qualifications, they will be given preferential consideration.

Applications should be sent by February 15, 2000 to:

Prof. Dr. Helmuth Möhwald  
Max-Planck-Institut  
für Kolloid-und Grenzflächenforschung  
D-14424 Potsdam  
Germany

## POSITIONS OPEN

### CHEMISTRY COORDINATOR OF RENOVATIONS Massachusetts Institute of Technology Department of Chemistry

The MIT Department of Chemistry is seeking an individual to assume a leadership role in the renovations of the Dreyfus chemistry building. The project is currently in the construction document phase. Construction will begin in second quarter of 2000 and continue for more than three years. During construction, the building will remain occupied, and research will be ongoing. Individual will oversee all aspects of the project; serve as the main contact person for the Department; and interact with the faculty, researchers, and with the design/construction team. Responsibilities will include for/on behalf of each research group: working with the design/construction team to develop detailed compression and relocation plans as needed; equipment accommodation strategies; planning for all moves, both temporary and final; and oversight of laboratory services provision/continuity during construction. The successful candidate should have chemistry laboratory research experience and knowledge of renovations and construction practices. M.S. or Ph.D. in chemistry preferred. This is a temporary, three years-plus position. Send résumé and three letters of reference by January 31, 2000, to: **M.-T. Kouo, Personnel Administrator, Department of Chemistry 18-398, MIT, 77 Massachusetts Avenue, Cambridge, MA 02139.** On-line applications welcome; send to e-mail: [mtk@mit.edu](mailto:mtk@mit.edu). MIT is an Equal Opportunity/Affirmative Action Employer and encourages applications from minorities and women.

The Department of Nutrition is seeking candidates for the position of **PROFESSOR OF CARDIOVASCULAR DISEASE PREVENTION**. Candidates should have an ongoing research program with emphasis on nutrition in relation to lipid metabolism and/or blood pressure regulation. Preference will be given to individuals with a research interest in diseases of public health importance and with demonstrated capacity for multidisciplinary research. The successful candidate will be expected to interact with the faculty in the Department of Nutrition and the Division of Biological Sciences and contribute to their teaching and training programs. Please send curriculum vitae, a short statement of research interests and field activities, and names of three references to:

**Department of Nutrition  
Harvard School of Public Health  
Building 2-Room 313  
665 Huntington Avenue  
Boston, MA 02115**

*The School is especially interested in increasing representation of women and members of minority groups in the faculty and particularly encourages applications from such candidates.*

### FACULTY POSITION IN MICROBIOLOGY

The Department of Biological Sciences of the Bayer School of Natural and Environmental Sciences invites applications for a full-time, tenure-track position at the rank of **ASSISTANT PROFESSOR**. Applicants must have a Ph.D., postdoctoral research experience, and a commitment to both research and teaching. The successful candidate will receive a competitive start-up package and salary and is expected to develop an extramurally funded research program involving undergraduate and graduate students. Participation in teaching undergraduate microbiology and development of a course in microbial pathogenesis is expected. Deadline for receipt of all application material is February 11, 2000. Send letter of application, curriculum vitae, representative reprints, statement of research and teaching goals, and three letters of reference to: **Dr. Peter Castirc, Department of Biological Sciences, Duquesne University, Pittsburgh, Pennsylvania 15282-1521.** Duquesne University website: <http://www.science.duq.edu>. Duquesne University, an Equal Opportunity Employer, strongly encourages applications from women and minority candidates.

## POSITIONS OPEN

### DEPARTMENT HEAD: SOIL, WATER, AND ENVIRONMENTAL SCIENCES The University of Arizona Tucson, Arizona

The College of Agriculture invites applications and nominations for the position of Head, Department of Soil, Water, and Environmental Science. An individual with outstanding scientific credentials and strong innovative interdisciplinary leadership is being sought to lead the Department in the areas of research, teaching, and extension. Evidence of administrative ability is essential. The Head is expected to provide leadership in facilitating collaborative effort across the campus and to maintain an active research program. The department has graduate and undergraduate programs in soil, water, and environmental sciences. Research programs encompass soil science, contaminant transport and remediation, water quality, environmental microbiology, microclimatology, remote sensing, and aquaculture. Additional information is available at website: [www.ag.arizona.edu/SWES/](http://www.ag.arizona.edu/SWES/). More information on qualifications is available at website: [www.hr.arizona.edu](http://www.hr.arizona.edu). Applicants should submit a current curriculum vitae; names, addresses, and telephone numbers of five references; and a statement of qualifications, goals, and administrative philosophy to: **Dr. Colin Kaltenebach, Chair, Head Search Committee, 314 Forbes Building, The University of Arizona, Tucson, AZ 85721.** Review of materials begins February 15, 2000, and will continue until position is filled. Appointment available July 1, 2000. The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer, Minorities/Women/Disabled/Veterans.

**BIOLOGY:** Two tenure-track **ASSISTANT PROFESSOR** positions to start August 2000. Ph.D. and evidence of excellence in teaching required. Successful candidates will direct M.S. students in their research. Availability of positions contingent upon funding. (1) Physiologist with research specialty in some aspect of animal physiology to teach general biology, anatomy/physiology, and senior/graduate-level physiology. (2) Plant Community Ecologist to conduct active research in midcontinental plant community ecology and teach plant ecology, plant systematics, local flora, and introductory biology. Applicants should have experience in GIS and other modern ecological techniques, with research to interface with an active environmental program. Deadline for applications: March 1, 2000. Send transcripts, curriculum vitae, publications, statements of teaching/research interests, and three reference letters to: **Dr. L. M. O'Flaherty, Department of Biological Sciences, Western Illinois University, 1 University Circle, Macomb IL 61455.** Western Illinois University is an Affirmative Action/Equal Opportunity Employer. We are interested in receiving applications from a broad spectrum of people including minorities, women, and persons with disabilities.

### GENETICIST

The Department of Biology at Marquette University has a tenure-track position as **ASSISTANT PROFESSOR** available August 16, 2000. A successful candidate must have postdoctoral experience and is expected to develop a vigorous, extramurally funded research program. Preference will be given to geneticists who would strengthen Department expertise in microbiology, but applications are invited from all areas of genetics. Teaching responsibilities are an annual one-semester undergraduate genetics laboratory course and a biennial graduate course. Review of applications commences February 4, 2000. Send curriculum vitae, statement of research interests, and three letters of recommendation to: **Dr. Brian Unsworth, Marquette University, Department of Biology, WLS 112A, P.O. Box 1881, Milwaukee, WI 53201-1881.** Website: <http://mendel.biol.mu.edu>. Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### UNIVERSITY OF ARKANSAS/ LITTLE ROCK FACULTY POSITION IN MOLECULAR BIOLOGY/BIOTECHNOLOGY Department of Applied Science

The newly reorganized Department of Applied Science invites applications for a tenure-track faculty position in the area of interdisciplinary molecular biology/biotechnology. The faculty should have appropriate postdoctoral experience and will be expected to conduct high-quality funded research as well as contributing to our educational mission at the graduate level. Candidates working in all areas of biotechnology and/or molecular biology will be considered. Applications are particularly encouraged from individuals working on membrane transport, gene regulation, signal transduction, and/or developmental biology. Applicants for **ASSOCIATE PROFESSOR** or **PROFESSOR** must have an externally supported research program and a substantial publication record.

Applicants should send a curriculum vitae, publication list, a statement of research interests and teaching philosophy, and three letters of reference to: **Roger Hawk, Chair, Department of Applied Science, University of Arkansas at Little Rock, 2801 South University, Little Rock, AR 72204-1099.** Telephone: 501-569-8010; e-mail: [hawk@ualr.edu](mailto:hawk@ualr.edu). Search closes on February 28, 2000.

*UALR is an Equal Opportunity/Affirmative Action Employer and actively seeks the candidacy of minorities, women, and persons with disabilities. Under Arkansas law, all applications are subject to disclosure. Persons hired must have proof of legal authority to work in the United States.*

### FACULTY POSITION ASSOCIATE PROFESSOR VIROLOGIST/MOLECULAR VIROLOGIST

The Wisconsin Regional Primate Research Center (WRPRC) and the University of Wisconsin Medical School are recruiting for a Ph.D., M.D., or D.V.M. Virologist at the Associate Professor or **PROFESSOR** level. The person hired will be expected to provide administrative and scientific leadership to the WRPRC Immunology and Virology Core Laboratory and conduct a strong program of research with collaborative links. She/he will also be expected to accept some teaching assignments and other duties in an academic department. Preference will be given to applicants with training and experience in molecular virology, specifically as it relates to simian models of human HIV infection. Send a letter of interest, a current curriculum vitae, and the names of three references to: **Dr. Michael N. Hart, c/o Cameron Millard, University of Wisconsin-Madison, 6120 MSC, 1300 University Avenue, Madison, WI 53706-1532** no later than February 1, 2000. Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality. The University of Wisconsin-Madison is an Equal Opportunity/Affirmative Action Employer and, as such, women and minorities are encouraged to apply.

### ANIMAL BEHAVIOR AND PHYSIOLOGY

The Department of Biology, Hamilton College, invites applications for a one-year **VISITING ASSISTANT PROFESSORSHIP**, effective August 2000. Ph.D. preferred; teaching experience expected. The successful applicant will teach (1) the animal physiology part of a team-taught introductory course in biology, (2) a 200-level course in animal behavior, and (3) an upper-level course in the candidate's area of expertise that complements the current offerings of the department. There are opportunities for supervision of student research. Send curriculum vitae, a statement about teaching, and names of three references to: **Jinnie M. Garrett, Chair, Department of Biology, Hamilton College, 198 College Hill Road, Clinton, NY 13323-1292.** Review of application materials will begin February 15, 2000, and continue until the position is filled. Hamilton College is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are encouraged to apply.

# Unilever Research

A future in Functional Foods Research

## Unilever

Unilever is a multinational with in total 270,000 employees in about 90 countries. Unilever is dedicated to meeting the everyday needs of people everywhere and raising the quality of life through its products and services. Unilever's products consist of a wide range of foods, detergents and cleaning products and personal care products. Around the world our foods and home and personal care brands, such as Rama, Ragu, Omo, Jif, Calvin Klein, Dove, Axe, Magnum, Lipton and Omo, are chosen by individual consumers 150 million times a day.

## Unilever Health Institute

Unilever has recently decided to make a step change in her activities in Functional Foods, foods and drinks that promote health in specific ways. Within Unilever Research a Unilever Health Institute will focus on research for Functional Foods in a number of consumer relevant health areas, such as reduction of risk on cardiovascular disease, promoting the body's natural defences, reduction of age-related health problems and optimising child nutrition. The Unilever Health Institute is responsible for adequate scientific underpinning of health claims and for a responsible introduction of Functional Foods in the market. This combination of research and application of research in the market place give a special edge to a job within the Unilever Health Institute. The Unilever Health Institute main location is within the Unilever Research Laboratory in Vlaardingen, the Netherlands, about 15 km west of the city of Rotterdam.

## Career possibilities

We offer a large number of exciting jobs within a multidisciplinary research environment. We offer career possibilities both in research and in management, including the possibility of gaining international experience.

## Jobs on offer

We are looking for enthusiastic and motivated teamplayers who have a passion for achievement and who like to contribute to innovative research aiming to lay the foundation for foods that really help promoting health.

## Nutritionists/epidemiologists

Nutritionists (MSc or PhD) with experience in setting up and supervising clinical trials and an extensive knowledge of the relation between diet and health and diet-related risk factors for chronic diseases. In addition we are looking for nutritional epidemiologists that have experience in the critical evaluation of the epidemiological scientific literature. Contactpersons: Dr Rianne Leenen (Rianne.Leenen@unilever.com; tel 31 10 460 5372) or Dr Annet Roodenburg (Annet.Roodenburg@unilever.com; tel 31 10 460 5372).

## Celbiologists/biochemists/pharmacologists

Celbiologists, biochemists or pharmacologists (PhD) with extensive knowledge and experience in research on endothelial function, haemostasis, homocystinaemia, hypertension or osteoporosis. In addition we are looking for scientists with a PhD in lipid and lipoprotein metabolism. Contactperson: Dr Johann Jerling (Johann.Jerling@unilever.com; tel 3110 460 5173).

## Physiologists/biologists

Physiologist or biologists (PhD) with a proven knowledge of the metabolism of lipids and lipoproteins and/or the metabolism of bile acids of endothelial function, blood pressure regulation, haemostasis or energy metabolism. Contactpersons: Dr Elke Trautwein (Elke.Trautwein@unilever.com; tel 3110 460 5173) or Dr Richard Draijer (Richard.Draijer@unilever.com; tel 3110 460 5241).

## Immunologists

Immunologist (PhD) with experience in cellular or clinical immunology of the modulation of systemic immune-responsiveness by external factors. In addition we seek an immunologist with extensive knowledge of the mucosal immunology of the gastro-intestinal tract. Contactperson: Dr Ruud Albers (Ruud.Albers@unilever.com; tel 3110 460 6404).

## Leaders for research into optimisation of children's nutrition

We are seeking for nutritionists of paediatrician that have extensive experience in nutritional research with children and that have a profound knowledge of child's growth and development. We are looking both for candidates with experience in research in 'western' settings and in developing countries. Contactperson: Dr Jan Weststrate (Jan.Weststrate@unilever.com; tel 3110 460 6149).

## 'Knowledge' workers and Bioinformaticians

Biophysicists, biologists, biochemists, pharmacologists, pharmacogeneticists or nutritionists (PhD or MSc) with a broad interest in the use of information technology and molecular science informatics to support biomedical research. Contactperson: Dr Jacob de Vlieg (Jacob-de.Vlieg@unilever.com; tel 3110 4605543).

## Science communicators

A very important task within the Unilever Health Institute is to ensure an effective communication of the results of scientific studies and scientific developments to a variety of internal and external stakeholders. We are looking for persons with a scientific or nutritional background with experience in capturing, evaluating and communicating scientific information. Contactperson: Ben de Boer (Ben-de.Boer@unilever.com; tel 3110 460 5412).

## To Apply

Send your letter, referring to 'adv UHI' and job title via E-mail to Drs M.K. Willemse at 'vl.recruit@unilever.com'. Please attach your CV (and a list of publications), preferably in Word format. For more information about the positions or opportunities in Unilever Research please contact the above mentioned contactpersons. If you prefer to apply by means of conventional mail please send the above mentioned documents, referring to 'adv UHI' to:

Unilever Research Laboratory  
attn. Drs M.K. Willemse,  
Human Resource Department  
P.O. Box 114  
3130 AC Vlaardingen  
The Netherlands.





## POSITIONS OPEN

### VERTEBRATE BIOLOGIST FLORIDA ATLANTIC UNIVERSITY Charles E. Schmidt College of Science Department of Biological Sciences

Florida Atlantic University seeks a Vertebrate Biologist with research interests in fish, amphibians, or reptiles. The successful candidate will teach vertebrate morphogenesis and develop graduate and undergraduate courses in his or her field. A research interest in molecular, evolutionary, physiological, and/or ecological research problems is desirable. The position is tenure-track at the **ASSISTANT PROFESSOR** level.

The Department of Biological Sciences offers Bachelor's and Master's degrees and a Master's degree in environmental science. The Board of Regents has approved planning for a Doctoral degree in biology. In addition, the department will soon relocate to a fully renovated, state-of-the-art facility. The department has research strength in marine, tropical terrestrial, and molecular systems and would welcome applicants with similar interests. Research interests of current biological sciences faculty can be found at [website: http://www.fau.edu/divdept/biology](http://www.fau.edu/divdept/biology). Applicants should send a curriculum vitae, statements of teaching and research interests and experience, and three letters of recommendation to: **Dr. Peter Lutz, Chair, Department of Biological Sciences, Florida Atlantic University, P.O. Box 3091, Boca Raton, FL 33431**. The deadline for receipt of applications is February 15, 2000, and the position will begin fall 2000. The position is contingent on budget feasibility. *Florida Atlantic University is a member of the State University System of Florida. An Equal Opportunity/Access/Affirmative Action Institution.*

**TUMOR IMMUNOLOGIST: TENURE-TRACK PROFESSORSHIP** in the Massey Cancer Center and the Department of Microbiology and Immunology at Virginia Commonwealth University (VCU). The successful applicant must hold a Ph.D. degree or equivalent and have at least 10 years of academic faculty experience. The candidate is required to have formal training, expertise, and current funding in tumor immunology. Areas of special interest in our Center include activation of T cells and NK cells and mechanisms by which autocrine growth factors trigger transformation. The successful applicant is expected to maintain a strong, grant-supported independent research program and must have a history of publishing in high-quality journals. Preference will be given to applicants with evidence of professional independence and in training undergraduate, graduate, and postdoctoral students, including minority students. Send a statement of research interests, curriculum vitae, and arrange submission of at least three letters of reference by February 21, 2000, to: **Dr. Richard Seither, Box 980037, Richmond, VA 23298-0037**. *VCU is a culturally diverse, Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disabilities are encouraged to apply.*

### BIOLOGY MANCHESTER COLLEGE

The Department of Biology invites applications for a 10-month, tenure-track position at the **ASSISTANT PROFESSOR** rank beginning fall 2000. Ph.D. preferred; Master's considered. As a field-oriented Vertebrate Biologist, the successful candidate will have a background in some combination of animal behavior, wildlife management, ecology, taxonomy or systematics, or environmental science. In addition, the candidate will be director of the College's 100-acre environmental center, with preference given to applicants with successful administrative and grant-writing experience. Review of applications will begin February 1, 2000, and continue until position is filled. Send letter of application, curriculum vitae, three recent letters of recommendation, evidence of effective teaching, and transcripts to: **Dr. Dave Kreps, Chair, Department of Biology, Manchester College, Box 510, 604 East College Avenue, North Manchester, IN 46962-1276**. *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN



### UNIVERSITY OF FLORIDA

#### TENURE-TRACK POSITION IN FUNCTIONAL GENOMICS AND BIOINFORMATICS

The University of Florida, Shands Cancer Center, invites applications for two tenure-track faculty positions at the rank of **ASSISTANT PROFESSOR** or above in functional genomics and bioinformatics. Successful applicants will join a multidisciplinary team of researchers from around the campus as a member of the Cancer Center and the University of Florida Genetics Institute. Applicants will be expected to develop a competitive, independent research program with the ultimate goal of bringing the power and promise of genomic research to problems of the specific oncological diseases. Individuals studying model organisms are encouraged to apply. The successful applicants will join the faculty of the College of Medicine, with their department affiliation being determined by their specific research interests. Applicants must have an M.D. and/or Ph.D. degree and a demonstrated record of expertise either in functional genomics or bioinformatics. The application deadline is March 1, 2000, with an anticipated start date of March 15, 2000, or soon thereafter. Salary and rank will be commensurate with experience. Interested applicants should submit their curriculum vitae, a brief description of their research interests, and the names of three individuals from whom recommendations can be solicited. Send requested information to: **Dr. Richard W. Moyer, Search Committee Chair, University of Florida, Department of Molecular Genetics and Microbiology, P.O. Box 100266, Gainesville, FL 32610-0266**. *The University of Florida is an Equal Employment Opportunity/Affirmative Action Employer.*

**TENURE-TRACK POSITION IN BIOTECHNOLOGY/BIOENGINEERING: THE UNIVERSITY OF TEXAS AT AUSTIN**. The Department of Chemical Engineering invites applications for a tenure-track faculty position in biotechnology/bioengineering at the **ASSISTANT PROFESSOR** level. The successful candidate can also have appointments in the Institute for Cell and Molecular Biology and in the Bioengineering Program of The University of Texas. Particular areas of interest include chemical biology, cell biology, or developmental biology with emphasis on technological applications. A Ph.D. degree is required, and postdoctoral experience is highly desirable. Applicants must have an outstanding record of research accomplishments and a strong interest in undergraduate and graduate teaching. Interested persons should submit a detailed curriculum vitae, including academic and professional experience; a list of peer-reviewed publications and other technical papers; and the names, addresses, and telephone numbers of three or more references to: **Chairman, Department of Chemical Engineering, The University of Texas at Austin, Austin, TX 78712-1062**. *The University of Texas is an Equal Opportunity/Affirmative Action Employer. Applications from women and minorities are encouraged.*

**BRAIN IMAGING ANALYST**, Columbia University Division on Substance Abuse. We use neuroimaging to study the human brain pathways involved in cocaine's effects on mood, cognition, and behavior. We seek a collaborator to help analyze functional (PET) and structural (MRI) data. Work will entail implementation of existing software for PET and MRI analysis plus development of novel analytic methods. Background in quantitative psychology or neurobiology, statistics, or mathematics required (with either Ph.D., or Master's degree plus two years of relevant experience). Facility with UNIX, Matlab, and C++ required. Minimum two-year commitment. Send curriculum vitae and three letters of recommendation to: **Dr. Eric Rubin, Unit #66 NYSPI, 1051 Riverside Drive, New York City, NY 10032**. E-mail: [er22@columbia.edu](mailto:er22@columbia.edu). *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### BIOCHEMISTRY

**QUEEN'S UNIVERSITY**, Department of Biochemistry. Applications are invited for a faculty position at the **ASSISTANT PROFESSOR** level in the area of cell biology as applied to biochemical problems. Applicants should have a Ph.D. and a minimum of two years of postdoctoral experience. The goal is to select a candidate whose expertise will complement and build on the existing research strengths in the department (see [website](http://meds-ss10.meds.queensu.ca/medicine/biochem/) for list of research areas: <http://meds-ss10.meds.queensu.ca/medicine/biochem/>). The Department has a strong research program and strengths in both graduate and undergraduate teaching. The successful candidate will be expected to apply for external salary funding to the Medical Research Council of Canada or other appropriate agencies for a five-year position. The successful candidate will be eligible to apply for an available tenure-track position at the completion of their externally funded period, provided provincial funding allows filling of open positions. *In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.* Letters of application should include a curriculum vitae and indicate area(s) of expertise, future research interests, and the names and addresses of three to five references, and be sent to: **Dr. Albert Clark, Head, Department of Biochemistry, Queen's University, Kingston, Ontario K7L 3N6 Canada**. FAX: 613-533-2022; e-mail: [clarkaf@post.queensu.ca](mailto:clarkaf@post.queensu.ca). Letters of reference will be sought by the Appointments Committee for short-listed candidates. The application deadline is March 30, 2000. *Queen's University is committed to employment equity and welcomes applications from all qualified women and men, including visible minorities, aboriginal people, persons with disabilities, gay men, and lesbians.*


Stanford University School of Medicine has opened a full-time position at the rank of **ASSOCIATE PROFESSOR** or **PROFESSOR** in the University tenure track in the Division of Epidemiology, Department of Health Research and Policy. We expect that the candidate will have both an M.D. and an advanced degree in epidemiology or related discipline and have a primary interest in clinical epidemiology. We expect the successful candidate will develop an independent program of research in clinical epidemiology and assume a leadership role in the teaching programs for clinical investigators and epidemiologists within the School of Medicine. The successful candidate will have demonstrated a record of publications, extramural support, and teaching in the field of clinical epidemiology. We are particularly interested in candidates with substantial experience in large population studies or clinical trials.

Candidates interested in this position should send a copy of their curriculum vitae, a brief letter describing their interests, and the names of three references to:

**Alice Whittemore, Ph.D.**  
Chief, Division of Epidemiology  
Stanford University School of Medicine  
HRP Redwood Building, Room T204  
Stanford, CA 94305-5405

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

**MOLECULAR OR CELL BIOLOGIST:** bone or cartilage research. The Albert Einstein Healthcare Network seeks candidates for an **ASSISTANT** or **ASSOCIATE SCIENTIST** in the Department of Orthopaedics in the area of molecular or cell biology related to bone or cartilage research. The applicant must possess a Doctorate in an appropriate area and must maintain a competitively funded research program. The candidate may be eligible for a faculty appointment at Thomas Jefferson University. Applicants should submit their curriculum vitae, bibliography, brief description of their funded research activities, and three letters of reference. The materials should be sent to: **John A. Handal, M.D., Chairman, Department of Orthopaedics, Albert Einstein Healthcare Network, 5501 Old York Road, Philadelphia, PA 19141**. *Equal Employment/Affirmative Action Employer.*



– Innovation is looking at things differently –

## Pharmaceutical Development - Opportunity for committed natural scientists and engineers

*Join our  
worldwide team  
to shape the future.*

*Research and  
Development and  
modern technology  
are the basis  
for our  
worldwide growth.*

*Communication  
is our key.*

*Our business areas:  
Human  
Pharmaceuticals,  
Animal Health,  
Chemicals.*

*Our shared ambition:  
Value through  
innovation*

### Project Leader in Research and Development

You are a pharmacist, chemist or biologist with a PhD who is looking for a new challenge on the basis of your proven experience of R&D in the pharmaceutical industry or related areas.

Your key duty in this position - the prerequisite for which is an excellent command of the English language - will be to manage development projects carried out with external partners from the pre-development and pre-clinical phase until launch. Accordingly, you will represent R&D in international development teams up to the market introduction stage.

This will include the following in particular:

- Representing R&D in international Boehringer Ingelheim Core Development Teams from Phase I/IIa up to launch, and vis-à-vis external consultants, cooperation partners and licensing authorities
- Leading the R&D subteam with the aim of defining and implementing project-specific development strategies
- Preparing and implementing management decisions taken by BI steering committees

Should you require any additional information about this position please contact Dr Sluke under the following number (+49) 61 32 / 77 75 84 · Reference „PL R&D“

### Project Manager in Research and Development

You are a pharmacist, physical chemist or chemist with a PhD who is looking for a new challenge on the basis of your proven experience of R&D in the pharmaceutical industry or related areas.

Your key duty in this position - the prerequisite for which is an excellent command of the English language - will be to manage all galenic work performed in-house for development projects with external partners and to work together with these partners.

This will include the following in particular:

- Assuming responsibility for development strategies
- Evaluating scientific findings
- Representation vis-à-vis cooperation partners and regulatory agencies
- Preparing and implementing management decisions taken by BI steering committees

Should you require any additional information about this position please contact Dr Sluke under the following number (+49) 61 32 / 77 75 84 · Reference „PM R&D“

A responsible position in the Department of Pharmaceutical Development awaits you at our Ingelheim site. If you are interested in one of these positions on account of your experience to date we would welcome your application. Please also indicate your salary expectations and the earliest date you could start, quoting the reference.

Boehringer Ingelheim Pharma KG

Abteilung Personal Geschäftsbereichs / Personalleitung Forschung & Entwicklung und Medizin  
Klaus Peter Bracker · D-55216 Ingelheim · Germany · [www.boehringer-ingelheim.com](http://www.boehringer-ingelheim.com)

### Head of Laboratory Solid Dosage Form Group

Opportunity for a chemist or pharmacist with a PhD - You will be responsible for managing one of our R&D analytical laboratories in the Solid Dosage Form Group.

Your key duties will be to

- Investigate new products for inhalation using state of the art analytical methods
- Perform stability studies
- Validate analytical methods
- Compile testing specifications

In addition to an excellent knowledge of analytical and physical chemistry you should have experience in inhalation dosage forms development.

As well as having the necessary qualifications we expect organisational talent, good communication skills and fluent language skills in English.

Should you require any additional information about this position please contact Dr Walther under the following number (+49) 61 32 / 77 34 42 · Reference „LL Analysis Devices Group“

### Head of Laboratory in the Department Drug Delivery

For the evaluation and assessment of innovative approaches in drug delivery we are searching for a scientist or engineer (Ph.D.). The successful applicant should be in the position to take over a variety of different scientific tasks and to look after experimental studies.

It would be of advantage to already have experience and knowledge in the areas of material science or microengineering and a broad scientific training.

Further we are looking for creativity, flexibility, team spirit and a good ability to communicate with others.

Should you require any additional information about this position please contact Dr Zierenberg under the following number (+49) 61 32 / 77 31 59 · Reference „LL Drug Delivery Technologies“



**Boehringer  
Ingelheim**

## POSITIONS OPEN

### DIRECTOR, CENTER FOR HUMAN TOXICOLOGY UNIVERSITY OF UTAH

The Center for Human Toxicology, a Division of the Department of Pharmacology and Toxicology, is seeking a Director of national and international reputation who can provide visionary leadership in the direction and development of the Center's programs. The Director will fill a tenure-track position at the **ASSOCIATE PROFESSOR** or **PROFESSOR** level and must have a Ph.D. and/or M.D. degree. Prior academic experience with a history of independent extramural funding is preferred. The Director must have an appreciation and commitment to professional and graduate education, strong communication and other interpersonal skills, and leadership ability in collaborative as well as independent research. The Director must have an appreciation of modern bioanalytical instrumentation, techniques, and applications and a funded research program that complements the Center's strengths in the GC/MS and LC/MS analysis of drugs and their metabolites in biological specimens. Applicants should send a letter of introduction, a curriculum vitae, and the names of three references to: **Dr. M. Franklin, Chairman, CHT Director Search Committee, University of Utah, Department of Pharmacology and Toxicology, 30 South, 2000 East, Room 201, Salt Lake City, Utah, 84112-5820, U.S.A.** Review of applications will begin February 1, 2000, and continue until the position is filled. *The University of Utah is an Equal Opportunity/Affirmative Action Employer; women and minorities are encouraged to apply.*

### FACULTY POSITION IN MOLECULAR AND DEVELOPMENTAL GENETICS

**The Hebrew University of Jerusalem  
Faculty of Agricultural, Food, and  
Environmental Quality Sciences  
The Koret School of Veterinary Medicine**

The Koret School of Veterinary Medicine at the Faculty of Agricultural, Food, and Environmental Quality Sciences in Rehovot, Israel, invites applications for a full-time, tenure-track faculty position in molecular and developmental genetics or a related area. The position is available at the **LECTURER** or **SENIOR LECTURER** level depending on qualifications. Starting date is October 1, 2000. Candidates should have a record of research productivity and will be expected to establish and maintain a dynamic, extramurally funded research program in a field relevant to veterinary science. Candidates will also be expected to teach courses in medical genetics (in Hebrew) to veterinary students and related subjects to undergraduate and graduate students and to supervise Medical Science and Ph.D. students. Candidates must have a Ph.D. degree (a D.V.M. is desirable but not required). Please send curriculum vitae, list of publications, summary of research interests, and three letters of reference by March 1, 2000, to: **Professor M. J. Gutnick, Director, Koret School of Veterinary Medicine, The Hebrew University of Jerusalem, P.O. Box 12, Rehovot 76100, Israel. FAX: +972-3-9604079; e-mail: mgutnick@indycl.agri.huji.ac.il.**

### STAFF SCIENTIST NATIONAL INSTITUTES OF HEALTH

The Center for Molecular Modeling (CMM) in the Center for Information Technology, NIH, seeks a Staff Scientist (computational chemist) to support molecular modeling at the NIH. Candidates must have a Ph.D. in the physical sciences and experience in computer modeling of biomolecules and in computer systems administration. The Scientist will collaborate with intramural researchers on projects involving molecular modeling and will share responsibility for the maintenance of the CMM's hardware/software infrastructure. A complete application is required. See website: <http://careerhere.nih.gov/>. Vacancy announcement number IT-99-0113A. *NIH is an Equal Opportunity Employer.*

## POSITIONS OPEN

### ASSISTANT PROFESSOR DEPARTMENT OF PHARMACOLOGY AND PHYSIOLOGY University of South Carolina

Tenure-track position at the Assistant Professor level will be available July 1, 2000. The person selected will be expected to develop an independent research program with external funding and teach medical and graduate students. Areas of research are open to individuals using modern techniques to investigate physiological problems. Centers of Research Excellence (COREs) exist in cardiovascular research, neuroscience, cancer, and geriatrics. It is expected that the individual will have a Ph.D. or M.D. with a minimum of two years of postdoctoral experience. Potential for development and maintenance of an externally funded, independent research program will be evaluated. The Department consists of 12 full-time faculty and numerous adjunct and joint appointees. The Department is housed in modern facilities along with the other basic science departments of the School of Medicine. Ample opportunities exist for collaboration with other investigators. Interdisciplinary research is encouraged. Review of files will begin March 15, 2000. Candidates should submit a letter describing professional goals, a curriculum vitae, and the names of three references to: **Dr. Donald O. Allen, Professor and Chair, Department of Pharmacology and Physiology, School of Medicine, University of South Carolina, Columbia, SC 29208. Website: <http://www.med.sc.edu:96/FACPOS.HTM>.** *USC is an Affirmative Action/Equal Opportunity Employer.*

### ASSISTANT/ASSOCIATE PROFESSORS IMMUNOLOGY/PATHOGENIC BACTERIOLOGY

Two tenure-track positions, one each in the areas of molecular/cellular immunology and in molecular biology/genetics of pathogenic bacteria. Successful applicants will initiate and maintain productive independent research programs, participate in team-taught courses for medical and graduate students, and direct training of doctoral and/or postdoctoral research trainees. Assistant Professor candidates must demonstrate strong potential for success in these endeavors. Associate Professor candidates also must have strong publication records and current extramural research funding. Department provides excellent laboratory space; strong start-up packages; competitive 12-month state salaries; and supportive environment, with 14 full-time faculty and established doctoral program. Mail curriculum vitae, letter describing research and teaching goals, and list of three references to: **Dr. Paul V. Phibbs, Professor and Chair, Department of Microbiology and Immunology, School of Medicine, East Carolina University, Greenville, NC 27858-4354.**

*East Carolina University is an Equal Opportunity/Affirmative Action University. Accommodates individuals with disabilities. Applicants must comply with the Immigration Reform and Control Act.*

### ELECTRON MICROSCOPE SPECIALIST

The minimum training for this position is an M.S. degree in a discipline in the basic sciences and three years of experience in electron microscopy. The Electron Microscope Specialist will have responsibility for the day-to-day operation of the electron microscopy facility and assist in the preparation of specimens for electron micrographs, maintain the electron microscopes (transmission and scanning), and assist in training and demonstrations of electron microscopy techniques. The Specialist will interact with and provide assistance to all biomedical researchers in the basic sciences. The salary is competitive and negotiable. Send letter of application and résumé and have three letters of reference sent to:

**Dr. Fred Christian, Associate Program Director  
RCMI Program  
P.O. Box 9921  
Southern University  
Baton Rouge, LA 70813**

## POSITIONS OPEN

York College of The City of New York seeks to fill two positions at the **ASSISTANT PROFESSOR** (tenure-track) level with a start date of fall 2000.

(1) A Molecular Cell Immunologist (code: bioimm) will teach immunology lecture/laboratory and develop and offer a new molecular cell biology lecture/laboratory.

(2) A Cell Physiologist (code: biophy) will upgrade and offer a general and comparative physiology lecture/laboratory and teach other physiology courses as required.

For both positions, a Ph.D. is required, and postdoctoral experience is preferred. The successful candidates are expected to participate in development of a Master's in biotechnology; to develop an active research program involving undergraduates; to apply for extramural research funding (NIH-sponsored Minority Biomedical Research Support program and other sources); to participate in departmental and college committees and activities; and to have a strong commitment to research, teaching, and scholarship. Salary range \$32,703-\$57,049 depending on salary history, qualifications, and experience. Send curriculum vitae, specifying position applying for; a cover letter including a brief statement of teaching and research interests; and complete addresses and telephone numbers of three references to: **Mr. Anthony Melendez, Room 2H05, York College/CUNY, 94-20 Guy R. Brewer Boulevard, Jamaica, NY 11451. FAX: 718-262-2717.** For more information, visit our website: [natsci.york.cuny.edu](http://natsci.york.cuny.edu). Closing date for applications: March 3, 2000. *York College/CUNY is an Equal Opportunity/Affirmative Action/IRCA/Americans with Disabilities Act Employer.*

The Department of Pharmacology, Physiology, and Therapeutics is seeking two tenure-track **PHYSIOLOGISTS** and one **PHARMACOLOGIST** with active research programs in neurosciences, especially in neurodegeneration/neuroprotection. Applicants must have a Ph.D. or M.D. degree. In addition to offering nationally competitive salary, ample space, and start-up funds, the departments contain 14 faculty, numerous common equipment rooms, and core facilities. Teaching at the graduate, undergraduate, and medical school level will be expected. For detailed, specific, and immediate items of information/inquiries, the applicants may contact: **James Haselton, Ph.D., Chairman of the Selection Committee, at e-mail: [haselton@medicine.nodak.edu](mailto:haselton@medicine.nodak.edu).** Submit curriculum vitae, a comprehensive research statement outlining past accomplishments, future goals, and three letters of recommendation to: **Manuchair Ebadi, Ph.D., Professor and Chairman, Department of Pharmacology, Physiology, and Therapeutics, Professor of Neurosciences, Associate Dean for Research and Program Development, University of North Dakota School of Medicine and Health Sciences, 501 North Columbia Road, Grand Forks, ND 58203.** *UND is an Equal Opportunity Employer/Affirmative Action Institution.*

### BIO-ACOUSTICIAN

We are seeking a broadly trained **BIOLOGIST** with a strong background in acoustics whose research interests include understanding how vertebrates, particularly marine species, use sound to communicate with conspecifics; and orient, navigate, and forage. The ideal candidate will have a Ph.D. in the biological sciences and will complement and interact with existing staff whose research strengths are in the ecology, physiology, and behavior of marine mammals, birds, and turtles. Candidates should have good writing, verbal, and computer skills and will be expected to maintain a vigorous, independent research program. Please send a curriculum vitae, at least three letters of recommendation, and up to three reprints or manuscripts to: **Brent S. Stewart, Ph.D., J.D., Hubbs-Sea World Research Institute, 2595 Ingraham Street, San Diego, California 92109.** The Hubbs-Sea World Research Institute is a not-for-profit marine research institution whose mission is to "return to the sea some measure of the benefit derived from it" through research, conservation, and education.

The Swiss Federal Institute of Technology in Zurich (ETH Zurich) invites applications for a faculty position of a

### Professor of Microbiology

The new professor will join the Institute of Microbiology within the Department of Biology. Research will focus on the analysis of molecular mechanisms of microbial pathogenicity. The position requests firm commitment to the teaching of general microbiology and microbial pathogenicity at undergraduate and graduate levels.

Candidates should provide evidence of internationally recognised achievements in the field described and employ a broad variety of methodologies (e.g. combination of molecular genetics and biochemistry). The ability to engage in interdisciplinary collaboration is essential.

Applications with a curriculum vitae, a list of publications and summary of current and future research interests should be submitted to the **President of ETH Zurich, Prof. Dr. O. Kübler, ETH Zentrum, CH-8092 Zurich, no later than March 31, 2000.** The ETHZ specifically encourages female candidates to apply with a view to increasing the proportion of female professors.

### KLINIKUM DER UNIVERSITÄT- WÜRZBURG

Position available for a

#### PhD Student

(Neurobiology)

at the Department of Neurology,  
University of Würzburg, Section of  
Developmental Neurobiology

The group is dealing with mechanisms underlying pathogenesis in inherited neuropathies. A strong interest in learning modern morphological techniques and a solid knowledge in molecular biology/biochemistry are expected. Please send your application including CV and 2 references to:

**Professor Rudolf Martini, Ph.D.**  
**Neurologische Universitätsklinik**  
**Experimentelle**

**Entwicklungsneurobiologie**  
**Josef-Schneider-Straße 11**  
**97080 Würzburg/Germany**  
**Phone: 0049/931/201-2268**  
**Fax: 0049/931/201-2697**  
**email: neuk176@rzkli.uni-wuerzburg.de**

Our aim is to employ the most able people worldwide, because their commitment, motivation and skills are crucial to our corporate success.

In our Central Research division in Leverkusen/ Germany, a job opportunity is available for a

## Molecular Biologist

As a research scientist with a Ph.D. you will participate in a project aiming at identifying molecular markers for early cancer detection and diagnosis. Emphasis will be put on the molecular analysis of cells with multiple markers. You should have a strong background in molecular biology techniques, in situ hybridisation and immunostaining. Practical experience in histology, cytology or cytogenetics and knowledge of image analysis systems is required.

The position is designated as a laboratory head within a multidisciplinary team of molecular biologists and physicists.

If your background and personal experience fits this profile, please send your complete application in English or German quoting reference number 1134 to:

Bayer AG, Hochschulmarketing  
Frau Redmer, Hauptstrasse 119, 51368 Leverkusen, Germany

**Bayer** 

## POSITIONS OPEN

### FACULTY POSITION IN CELL BIOLOGY THE LERNER RESEARCH INSTITUTE Cleveland Clinic Foundation

The Department of Cell Biology seeks to fill an **ASSISTANT or ASSOCIATE PROFESSOR** level position. The successful candidate will establish an independent research program and collaborative ties with other faculty. Current areas include regulation of gene expression in vascular disease, inflammation, and cancer; intracellular signaling pathways; lipoprotein oxidation; cell growth, migration and apoptosis, and intracellular trafficking. New areas of interest include angiogenesis, developmental biology of the vasculature, and transgenic models of disease; however, excellence in science, rather than topic area, is of greatest importance. Generous seed support and highly competitive salary and fringes will be provided. The Lerner Research Institute (LRI) ([website: http://www.ri.ccf.org/ri/](http://www.ri.ccf.org/ri/)) is an integral part of the Cleveland Clinic, one of the top-ranked medical centers in the United States. The LRI, composed of approximately 100 principal investigators and 800 technicians, fellows, and students, has a long-standing commitment to excellence in basic and applied biomedical research.

Send curriculum vitae and names of three references to: **Dr. Paul E. DiCorleto, Chair, Department of Cell Biology, NC10, The Lerner Research Institute, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195.**

### COHESIVE TECHNOLOGIES INC.

**DIRECTOR/APPLICATION SUPPORT CHEMIST**, Franklin, Massachusetts. Lead role is to perform application/methods development work and implement an application development plan. Will manage and oversee chemists in the laboratory while still functioning hands-on as an Applications Support Chemist. Design and run experiments in the program by interfacing with customers to understand requirements and develop solutions. Will contribute to the development of applications notes, sales brochures, seminar presentations, and papers. Will help identify potential new product and industry application areas for sales development and assist engineering and software development groups on system design and evaluation, as well as participate in customer and distributor training programs. The ideal candidate will have a strong background in pharmaceuticals and liquid chromatography with an understanding of the principles of mass spectrometry and an advanced degree in a biochemistry-related discipline. Excellent interpersonal skills and flexibility required. Travel may be required in both the United States and Europe. Cohesive Technologies Inc. provides the biopharmaceutical industry and contract laboratories with purification and analysis tools for the discovery, development, and manufacture of drugs. Visit our [website: www.cohesivetech.com](http://www.cohesivetech.com) for general information about the Company.

**GEOLOGY:** Baldwin-Wallace College invites applications for a **TENURE-TRACK POSITION** in geology beginning August 2000. Responsibilities include but are not limited to: teaching physical geology, environmental geology and/or planetary geology, and historical geology. Ability to teach physical geography desirable. The successful candidate will have a Ph.D. in geosciences or planned completion by August. Baldwin-Wallace College is a private, liberal arts-oriented college located about 15 miles southwest of Cleveland. For more information, see [website: www.bw.edu](http://www.bw.edu). Applicants should send curriculum vitae; a statement describing research and teaching interests; as well as the names, addresses, and telephone numbers of three references to: **Dr. Stephen Hilliard, Chair, Department of Biological Sciences, Baldwin-Wallace College, 275 Eastland Road, Berea, Ohio 44017-2088.** Review of applications begins January 15, 2000, and continues until the position is filled. *In a continuing effort to enrich its academic environment and provide equal educational and employment opportunities, the College actively encourages applications from members of underrepresented groups in higher education and from women.*

## POSITIONS OPEN



Agricultural  
Research  
Service

United States  
Department of  
Agriculture

The Eastern Regional Research Center, USDA, Agricultural Research Service (ARS), has a challenging position for a permanent full-time **RESEARCH CHEMIST**. The Center is located just outside of Philadelphia in Wyndmoor, Pennsylvania. The position is in the Dairy Products Research Unit, which has a long and productive history of research on the structure of milk proteins. Instrumentation available on-site includes: EM, HPLC, FTIR, CD, DLS, DSC, 3D modeling, and analytical UC. Research will be conducted on the structure of milk proteins, primarily the caseins. Candidates must have a knowledge of biochemistry; biotechnology; skill in protein characterization; and ability to plan, conduct, and report research on protein chemistry. *U.S. citizenship is required;* salary is commensurate with experience (GS-11: \$39,417 to \$51,239; GS-12: \$47,241 to \$61,418 per year). For information, **Telephone: Dr. Harry Farrell at 215-233-6462; e-mail: hfarrell@arserrc.gov; ARS website: www.ars.usda.gov/afm/hrd/resjobs.** For application package, **Telephone: Mary Ann Byrne at 215-233-6571.** Applications must be marked ARS-XOE-0078, be complete, and postmarked by March 6, 2000. *USDA/ARS is an Equal Opportunity Employer.*

### MRI RADIO FREQUENCY ENGINEER

The National Institutes of Neurological Disorders and Stroke, NIH, is seeking a qualified MRI Radio Frequency Engineer to work in the newly formed Laboratory of Functional and Molecular Imaging (LFMI). This is a **STAFF SCIENTIST** position whose primary duties include constructing both routine and novel radio frequency coils for high-field MRI for use with humans and animals. The engineer will be expected to participate in research on the development of high-field MRI, as well as work in support of ongoing projects in LFMI. The LFMI is in the process of acquiring a 11.7T, 30 cm. bore animal MRI system and a 7T, 90 cm. bore human MRI system. In addition to development of radio frequency coils, the MRI Radio Frequency Engineer will help to maintain LFMI spectrometers in excellent working condition, as well as extend the performance with laboratory-built additions when necessary. Members of LFMI have access to GE 1.5 and 3T LX MRI scanners and a 4.7T, 40 cm. bore animal MRI system, all housed within the NIH *In Vivo* NMR Center. There are a large number of excellent MRI groups in the *In Vivo* NMR Center that are very interactive. A Ph.D. degree in a scientific or engineering discipline and at least two years of extensive experience that demonstrates outstanding abilities in development of MRI radio frequency coils and hardware, especially at field strengths of 3T and higher, are required. Salaries are very competitive and commensurate with experience.

The full vacancy announcement, with application requirements and procedures, is available by **FAX: 1-800-728-5627; request FAX i.d. #5021** or via the Internet: [website: http://careerhere.nih.gov](http://careerhere.nih.gov), reference NINDS-99-0177. Applications are due by February 11, 2000. For questions, **Telephone: 301-435-5499.** *NIH is an Equal Opportunity Employer.*

**STAFF ASSOCIATES:** three positions available to join the Immunogenetics Division with experience in cellular and molecular immunology. Duties and requirements for each position are as follows: (1) flow cytometry analysis of lymphocyte differentiation antigens, (2) molecular immunology of HLA and lymphokines, (3) propagation and cloning of antigen-specific T cell lines. M.D., Ph.D., M.S., or B.S. with four years of experience. Send curriculum vitae and names of three references to: **Dr. Nicole Suciu-Foca, College of Physicians and Surgeons of Columbia University, Department of Pathology, P and S 14-401, 630 West 168th Street, New York, NY 10032.** *Columbia University is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### VICE PRESIDENT FOR RESEARCH THE FLORIDA STATE UNIVERSITY

Florida State University invites applications and nominations for the position of Vice President for Research, the senior research officer of FSU who reports to the Provost and Vice President for Academic Affairs. The position is responsible for working with all campus and other constituencies to enhance the University's capacity for innovative multidisciplinary research and large-scale initiatives in a wide variety of areas, for the administration of the University's research policies and the central administration's research support programs, and serves on the board and directs the staff of the Florida State University Research Foundation (FSURF). Additional details on this position and the University can be reached on our [website: http://www.fsu.edu/~acaffair/](http://www.fsu.edu/~acaffair/).

The successful applicant must have a strong academic grounding evidenced by an earned Doctorate; substantial experience in research activities and management; and a record of scholarship and/or research leadership in academia, government, or industry as evidenced by an executive rank. Nominations must be received no later than Friday, February 4, 2000. Applicants must send a letter of interest, current curriculum vitae, and contact information for three references. Application deadline (postmark) is February 18, 2000. Applications received after this deadline will be reviewed on a biweekly cycle as necessary until the position is filled. The position is eligible for faculty appointment, and compensation will be both competitive and commensurate with the successful candidate's experience. Nominations and applications should be sent to: **Dr. Marie E. Cowart, Chair, Vice President for Research Search Committee, College of Social Sciences, 160 Bellamy Building, Florida State University, Tallahassee, FL 32306-2160.**

### ASSOCIATE PROFESSOR PHARMACOLOGY AND TOXICOLOGY THE UNIVERSITY OF KANSAS

Applications are invited for a tenure-track position as Associate Professor of Pharmacology and Toxicology in the School of Pharmacy. The Pharmacy School at the University of Kansas ranks fourth nationally in total NIH research funding among all such schools. The Department is recruiting a faculty member with expertise in any of the following areas: cell/molecular pharmacology or toxicology, neuropharmacology, neurotoxicology, cell/molecular neurobiology, neurogenetics, genomics, cell/molecular biology of signal transduction. The successful candidate must hold a Ph.D., M.D., or equivalent degree and have externally funded research. As a faculty member, he/she will participate in collaborative research projects and teach at the graduate and undergraduate levels. Excellent core facilities exist, including those for DNA sequencing, protein analysis, peptide synthesis, fermentation, cell culture, hybridoma production, confocal and electron microscopy, molecular modeling, NMR, mass spectroscopy, and X-ray crystallography. Send curriculum vitae, a description of research plans, and the names of three references to: **Dr. Mary L. Michaelis, Department of Pharmacology and Toxicology, University of Kansas, Lawrence, KS 66045-2505. E-mail: mlm@ukans.edu.** Application deadline: January 30, 2000. *The University of Kansas is an Equal Opportunity Employer. Underrepresented minorities and women are encouraged to apply.*

**MOLECULAR BIOLOGY AND GENETICS POSTDOCTORAL/RESEARCH ASSOCIATE:** Several positions are available as part of an interdisciplinary research team, using advance technologies to determine how chromatin structure mediates development. Self-motivated individuals trained in molecular biology, genetics, and/or biochemistry are encouraged to apply. Applicants should forward their curriculum vitae and three letters of recommendation to: **Dr. Stephen Krawetz, Department of Obstetrics/Gynecology and CMMG, Wayne State University School of Medicine, 275 East Hancock, Detroit, MI 48201.** *WSU is an Equal Opportunity/Affirmative Action Employer.*



## 1999 - 2002 POSTDOCTORAL POSITIONS

### INTERNATIONAL INTERDISCIPLINARY COLLABORATIVE PROJECT ON

#### TGF- $\beta$ SIGNALING FROM CELL SURFACE TO THE NUCLEUS

UNDER THE AUSPICES OF THE

#### HUMAN FRONTIER SCIENCE PROGRAM

Applications are invited from Ph. D. or M.D./Ph.D. holders with high degree of motivation and enthusiasm to work on a diverse spectrum of current topics of transforming growth factor  $\beta$  signal transduction.

The project is an international and interdisciplinary collaboration among young investigators with competitive and active research programs on TGF- $\beta$  signaling, receptor biochemistry and transcriptional regulation. Selected current publications: Remy, I., et al. (1999) *Science* 283, 990-3; Remy, I. & Michnick, S.W. (1998) *Proc. Natl. Acad. Sci. USA* 96, 5394-9; Vorgia, P., et al. (1998) *J. Biol. Chem.* 273, 4188-96; Kardassis, D., et al. (1999) *J. Biol. Chem.* 274, 29572-81; Moustakas, A., & Kardassis, D. (1998) *Proc. Natl. Acad. Sci. USA* 95, 6733-8; Piek, E., et al. (1999) *J. Cell Sci.* 112, 4557-68; Luo, K., et al. (1999) *Genes Dev.* 13, 2196-206; Stroschein, S.L., et al. (1999) *Science* 286, 771-4.

Interested applicants should address their inquiries, including CV and three reference letters, to the individual research member that best fits their interest.

**Dimitris Kardassis**, Ph. D., Assistant Professor, Division of Basic Sciences, Department of Medicine, University of Crete, 711 10 Heraklion, Greece. Tel. (30) 81-394549, Fax. (30) 81-394530. E-mail: kardassis@nefeli.imbb.forth.gr

**Kunxin Luo**, Ph. D., Staff Scientist, 310 Donner Lab, Lawrence Berkeley National Laboratory, and Assistant Adjunct Professor, Dept. of Molecular and Cell Biology, University of California, Berkeley, 229 Stanley Hall, Berkeley, CA 94720-3206, USA. Tel. (1) 510-486-5178. Fax. (1) 510-643-9290. E-mail: k\_luo@mh1.lbl.gov

**Stephen Michnick**, Ph. D., Professor, Département de Biochimie, Université de Montréal, Pavillon Principal, E-523, C.P. 6128, Succ. Centre-Ville Pavillon Principal, 2900 Blvd. Edouard-Montpetit, Montréal, Quebec, Canada H3C 3J7. Tel. (1) 514-343-5849. Fax. (1) 514-343-2210. E-mail: michnick@BCH.UMontreal.CA

**Aristidis Moustakas**, Ph. D., Group Leader, Assistant Member, Ludwig, Institute for Cancer Research, Box 595, S-751 24 Uppsala, Sweden. Tel. (46) 18-160411. Fax: (46) 18-160420. E-mail: aris.moustakas@LICR.uu.se

Our aim is to be the world's leading chemicals and health care group. We believe that our technical and commercial expertise involves a responsibility to work for the common good and contribute to sustainable development. By joining forces with Bayer, you too can devote yourself to this exciting challenge.

In the structural research department of Central R&D, located in Leverkusen/Germany, an entry level job opportunity is available for a scientist in the field of

## Structural Research HPLC-MS

Collaborating with multidisciplinary project teams you will interact closely with combinatorial chemistry and biotechnology units. You will have access to the expertise and the adequate state-of-the-art instrumentation of a well-established group of analytical scientists.

As a research scientist with a Ph. D. in chemistry or life science related fields you should have a strong background in HPLC-MS and in structure elucidation of small molecules. Effective communication skills in German and English and strength in interpersonal relations are required.

For further details please contact Dr. Wolfgang Kreiss (E-Mail: Wolfgang.Kreiss.WK@bayer-ag.de). If your background and personal experience fits this profile, please send your complete application quoting ref.-No. 1165 to:

Bayer AG, Hochschulmarketing  
Hauptstraße 119, D-51358 Leverkusen, Germany

**Bayer** 

## POSITIONS OPEN

### MICROBIOLOGIST TENURE-TRACK POSITION

California State Polytechnic University, Pomona

The Department of Biological Sciences seeks a General Microbiologist to teach undergraduate and advanced microbiology, with demonstrated excellence in undergraduate teaching and capability for developing an externally funded research program. Teaching responsibilities include development of upper-division and graduate courses in the candidate's specialty area. We seek candidates with a specialty in microbial physiology, microbial ecology, or microbial/molecular pathogenesis. Depending on the candidate's interest and experience, additional teaching assignments might include introductory biology, human sexuality, and emerging issues within the discipline of biology. Ph.D. required at time of appointment. Teaching and postdoctoral research experience is preferred. **ASSISTANT PROFESSOR** position begins September 2000. For more information, see **website: [www.csupomona.edu/~biology](http://www.csupomona.edu/~biology)**. Applicants must send letter of intent, completed application form, curriculum vitae, three recent letters of reference, and two additional references (with telephone numbers for all) to: **Microbiology Search Committee, Biological Sciences Department, California State Polytechnic University, Pomona, CA 91768-4032. E-mail: [shbryant@csupomona.edu](mailto:shbryant@csupomona.edu)**. Initial review of applicants will begin March 1, 2000, and continue until position is filled. *An Equal Opportunity/Affirmative Action Employer.*

### PROTEIN CHEMISTRY STAFF SCIENTIST TEXAS A&M UNIVERSITY

The Protein Chemistry Laboratory, a core facility of Texas A&M University, seeks to hire a protein scientist to assist in the service, research, and education programs of the laboratory. The applicants are expected to have either a Ph.D. or M.S. with more than three years of relevant background and with hands-on experience in protein sequencing, mass spectrometry, 2D gel electrophoresis, and protein separation science. The successful candidate will have the opportunity to become fully integrated into the facility and collaborate with a diverse users group in the Texas A&M University System. Applicants should send a cover letter, curriculum vitae, and names of three references to:

**Protein Chemistry Laboratory Search Committee  
Ms. Sherrie Hughes, Administrative Assistant  
Department of Biochemistry and Biophysics  
Texas A&M University  
College Station, TX 77843-2128**

*Texas A&M is committed to Equal Opportunity through Affirmative Action.*

### POSTDOCTORAL POSITIONS YEAST MOLECULAR GENETICS

The Wayne State University College of Science, Department of Biological Sciences, has two positions available in an NIH-funded lab. The first will elucidate the role of the phospholipid cardiolipin in mitochondrial biogenesis. The second will identify and characterize molecular targets of the antimanic drugs lithium and valproate. Individuals who are highly motivated, interested in utilizing yeast as a model system, and have backgrounds in molecular biology are especially encouraged to apply. Send a curriculum vitae and the names of three references to: **Dr. Miriam L. Greenberg, Department of Biological Sciences, Wayne State University, Detroit, MI 48202. Direct e-mail to: [mlgreen@sun.science.wayne.edu](mailto:mlgreen@sun.science.wayne.edu)**.

### POSTDOCTORAL POSITION LAB ASSISTANT POSITION Tampa Bay Research Institute

Positions available to study the molecular biology of immune active compounds and human viruses, respectively. Send curriculum vitae, three references, and description of research interests to: **Chairman, Search Committee, Tampa Bay Research Institute, 10900 Roosevelt Boulevard, St. Petersburg, FL 33716.**

## POSITIONS OPEN

### CENTER FOR SCIENTIFIC REVIEW NATIONAL INSTITUTES OF HEALTH Senior Executive Service Opportunity

The Center for Scientific Review (CSR) invites applications for a Senior Executive Service position to provide scientific leadership and management in the CSR Division of Molecular and Cellular Mechanisms. The Division is responsible for conducting scientific merit review of research and research training grant applications. Responsibilities include tracking progress across broad fields of science; serving as a key member of the Center's senior leadership team, participating in strategic planning for the Center's scientific and management goals; overseeing program activities of several Integrated Review groups; and providing second-level management to the large group of professional staff within each division. This is a Civil Service position, with a base salary ranging from \$115,811 to \$130,200 per year, depending on qualifications. Recruitment/relocation bonus may be available. Physicians may be eligible for a Physicians Comparability Allowance. Benefits include health and life insurance options, retirement, savings plans, paid holidays, and vacation and sick leave. Closing date: February 8, 2000 (applications must be postmarked by closing date).

Application procedures and qualification requirements may be accessed on the CSR **website: <http://www.csr.nih.gov/employment>** or contact: **the Human Resources Branch at 301-435-1122.**

Selection for this position will be based solely on merit. *NIH is an Equal Opportunity Employer.*

### THREE FACULTY POSITIONS DIETETICS EXERCISE PHYSIOLOGY MOLECULAR MINERALS/RADIOISOTOPES

The University of Missouri is seeking three tenure-track **ASSISTANT PROFESSORS** in nutritional sciences. Applicants should have a Ph.D. in an appropriate area with postdoctoral experience. These faculty will be expected to develop nationally funded, innovative research programs utilizing modern molecular and biochemical techniques to study problems of broad nutritional importance. Preference will be given for individuals with research programs that match with our existing research strengths in: exercise and nutrient metabolism, diet and cancer risk, bone/mineral metabolism, lipid nutrition and immune function, receptor biology, metal ion transport proteins, and metal-related nutrient regulation of gene expression. The positions include teaching responsibilities, and faculty will be expected to actively train graduate students. Competitive salary and start-up packages are included in these positions. Application deadline is March 1, 2000, or until the positions are filled.

Send a curriculum vitae, representative publications, a summary of past research and teaching accomplishments, a statement of future research plans, and arrange for at least three letters of reference to be sent to: **Dr. Roger A. Sunde, Nutritional Sciences, 217 Gwynn Hall, University of Missouri, Columbia, MO 65211. See website: <http://web.missouri.edu/~nutsci>. Affirmative Action/Equal Opportunity Employer.**

Applications for a **POSTDOCTORAL POSITION** are being accepted for a joint project involving the Buxbaum (molecular and experimental medicine) and Kelly (chemistry) Laboratories at The Scripps Research Institute investigating the pathogenesis of and experimental therapy for the protein structural abnormalities characteristic of amyloid diseases. The program includes opportunities for training in the analysis of protein folding, tissue culture approaches to protein processing, the use of genetic and transgenic models of disease, and the development of small-molecule therapeutics as they relate to protein misfolding. Applicants with a variety of scientific backgrounds who will receive the Ph.D. degree in the next few months or very recent graduates will be considered. Cell or molecular biology experience is a plus. Please send applications to: **Professor Joel Buxbaum, The Scripps Research Institute, 10550 North Torrey Pines Road, MEM-230, La Jolla, CA 92037.**

## POSITIONS OPEN

### CHAIR DEPARTMENT OF CELL BIOLOGY DUKE UNIVERSITY SCHOOL OF MEDICINE

The School of Medicine has opened a national search for an outstanding scientist and leader for the Chair of Cell Biology. Nominations and applications are invited. Significant resources are available for recruiting within the divisions of Cell Biology, Developmental Biology, and Physiology (Integrative Biology). The department has a well-established doctoral program, with Universitywide programs in cell and molecular biology, genetics, and structural biology. The School of Medicine provides the Chair and faculty of Cell Biology strong interactions with leading scientists in the other basic science departments, as well as with strong clinical research programs. The school of Medicine is part of the main University, with close ties to campus academic units. For additional information, consult the Medical Center **website: <http://www.mc.duke.edu/depts/>**, which provides access to all departments and programs. The search will remain open until the position is filled. Applicants should submit a curriculum vitae, a statement addressing research interests and academic leadership goals, and the names and contact information of three references to: **Search Committee Chair, Office of Faculty and Academic Affairs, Box 3654, Duke University Medical Center, Durham, NC 27710. E-mail: [corle001@mc.duke.edu](mailto:corle001@mc.duke.edu). Duke University is an Equal Opportunity/Affirmative Action Employer.**

### ENDOWED PROFESSORSHIP MOLECULAR PATHOGENESIS

The School of Medicine at the University of Louisville is in the midst of a major expansion in biomedical research. As part of this expansion, the Department of Microbiology and Immunology seeks to recruit a senior faculty member to fill a newly created Endowed Professorship with a research focus on molecular aspects of bacterial pathogenesis. The ideal candidate should be a nationally recognized leader in their area of expertise and would be expected to bring an active research program. An ability to establish collaborations with other faculty in areas of immunology and chronic inflammatory diseases is preferred. Generous set-up funds, a 12-month state-line salary, and a highly collaborative environment are provided. Credentials should include an exemplary publication record, evidence of sustained extramural funding, and documentation of a strong commitment to graduate and medical education. Applicants should submit a curriculum vitae, selected reprints, a statement of research plans, and arrange to have four letters of reference sent to: **Uldis N. Streips, Ph.D., Search Committee Chairman, Department of Microbiology and Immunology, School of Medicine, University of Louisville, Health Sciences Center, Louisville, KY 40292. The University of Louisville is an Equal Opportunity/Affirmative Action Employer.**

Columbia University **POSTDOCTORAL POSITION**. Center for Science, Policy, and Outcomes in Washington, D.C., seeks Postdoctoral Research Scholars for one-year terms. The Center supports research, education, and policy development to enhance linkages between science and societal outcomes. Potential research areas: environment, human health, technology, standards of living/quality of life, international development, or governance. Candidates with multidisciplinary (policy plus scientific/technical) and/or multisectoral (academic plus government/private sector) experience are particularly encouraged to apply. The Center will also host Residency Fellows supported by outside funding conducting relevant research. Send curriculum vitae, letter of research and policy interests, and two letters of reference to: **Postdoctoral Search, Center for Science, Policy, and Outcomes, 209 Pennsylvania Avenue, S.E., Washington, DC 20003. Supervising faculty: Michael Crow, Barry Bozeman, Dan Sarewitz. For more information, website: <http://rvm.pp.gatech.edu/cspo/> or e-mail: [ajs247@columbia.edu](mailto:ajs247@columbia.edu). We take Affirmative Action toward Equal Employment Opportunity.**

**Institute of Cellular  
Pathology  
Brussels**

**Two Group Leader Positions**

The Institute of Cellular Pathology (ICP) wishes to recruit two Research Group Leaders, who are expected to develop their own line of investigations, preferably interacting with other groups in the Institute. The appointment will be for a period of five years, with the possibility of a permanent position or professorship after 4 years. Financial support for initial equipment, running expenses and the salary of a technician will be provided. External funding from Belgian scientific agencies will be accessible. Supervision of graduate students will be supported.

Activities at ICP are centered on fundamental aspects of biological research and their potential medical applications. They include microbial pathogenesis (Guy Cornelis, Thomas Michiels), development of antiparasite drugs (Fred Opperdoes), genetics of vascular anomalies (Miikka Vikkula), endocytosis (Pierre Courtot), extracellular matrix remodelling (Yves Eeckhout), regulation of mammalian genes involved in carbohydrate metabolism (Guy Rousseau), control of hepatic glucose metabolism (Emile Van Schaftingen), insulin signalling (Louis Hue), purine metabolism (Georges Van den Berghe), mucosal and viral immunology (Jean-Pierre Vaerman, Jean-Paul Coutelier). The ICP also hosts the Brussels Branch of the Ludwig Institute, which has a strong research activity in tumor immunology (Thierry Boon) and on interleukins (Jean-Christophe Renauld).

The ICP is located in an attractive residential area of Brussels, on the campus of the medical faculty of the *Université catholique de Louvain*.

Further information about the Institute may be found at the website: <http://www.icp.ucl.ac.be>

Applicants should submit a full curriculum vitae and a brief statement of research interests to Professor Thierry Boon, ICP 75.50, avenue Hippocrate 75, B-1200 Brussels, Belgium

Fax : 32 2 764 75 90.

Closing date : March 15, 2000.

Our aim is to employ the most able people worldwide, because their commitment, motivation and skills are crucial to our corporate success.

## Plant Biochemistry

In our Central Research division in Leverkusen/Germany, you will be working in a genomics project in the area of herbicide research in the field of plant biochemistry. In a young and multidisciplinary team you will establish screening tools in close cooperation with molecular biologists, biochemists and partners in the field of analytics, chemistry and bioinformatics.

As a research scientist with a Ph.D. in Biological Sciences you have gained significant professional expertise in some of the following areas: protein biochemistry preferably plant protein biochemistry, plant physiology, molecular biology, heterologous protein expression, protein purification, experience with enzymatic and / or cell based assays. You have excellent communication skills and enjoy working in a multidisciplinary team.

If your background and personal experience fits this profile, please send your complete application (including a CV, a brief description of research experience, a list of publications, names of references) quoting ref.-No. 1153 to:

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Frau Redmer, Hauptstraße 119, 51368 Leverkusen, Germany

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## POSITIONS OPEN

**BIOLOGICAL FIELD STATION MANAGER.** Grinnell College invites applications for the position of Manager of its biological field station, the Conard Environmental Research Area. Candidates should possess an appropriate Master's degree, experience in restoration ecology, and a strong commitment to undergraduate liberal arts education. The Research Area, located in central Iowa 11 miles west of Grinnell, includes an on-site laboratory and a variety of natural areas, including mature upland forest, floodplain forest, restored savanna, and reconstructed tallgrass prairie. It is used extensively for undergraduate education and for student and faculty research. The new position of Manager coincides with the creation of the Center for Prairie Studies, a major effort by the College to promote multidisciplinary education, research, and public understanding of the North American Prairie. The Manager will help develop and conduct management and restoration projects; supervise a technician and student interns; and facilitate use of the field station by students, faculty, researchers, and other visitors. He or she will work closely with a station Director in the Biology Department regarding biological education and research but will also report to the Faculty Director of the Center for Prairie Studies. Founded in 1846, Grinnell College enrolls about 1,300 undergraduate students from every U.S. state (and the District of Columbia) and 40 other countries. The College's primary mission is to provide students with a broad, deep, and life-enhancing education. Additional information can be found at the College's website: [www.grinnell.edu](http://www.grinnell.edu). To apply, send a letter of application, undergraduate and graduate transcripts, a curriculum vitae, and three letters of recommendation to: **Center for Prairie Studies, Professor Jonathan Andelson, Harry Hopkins House, 1131 Park Street, Grinnell College, Grinnell, IA 50112.** E-mail: [andelson@grinnell.edu](mailto:andelson@grinnell.edu). Applications must be received by 1 February 2000 to be given full consideration. *Grinnell College is an Equal Opportunity/Affirmative Action Employer committed to employing a highly qualified staff which reflects the diversity of the nation. No applicant shall be discriminated against on the basis of race, national or ethnic origin, age, gender, sexual orientation, marital status, religion, creed, or disability.*

## AFFYMETRIX DNA EXPRESSION ARRAY FACILITY

The Immune Tolerance Network (ITN) Gene Array Facility at The University of Chicago is looking for an individual to be **TECHNICAL DIRECTOR** of this facility. The goal of this facility is to provide the ITN and NIAID immunologists at the University with state-of-the-art microarray analyses of MRNA expression in immunologic diseases in humans and rodents.

Responsibilities will include interaction with the clinical and basic research investigators of the tolerance network to examine and interpret clinical and research tissues for evidence of tolerance induction. Special emphasis will be placed on the development and employ strategies for the most productive use of the microarray technology in the immunology setting. The Technical Director will work closely with the bioinformatics group to develop algorithms to interpret the data.

The candidate will be expected to have extensive experience in molecular biology, including RNA extraction from a wide variety of cell and tissue sources; PCR expertise; nucleic acid hybridization; and good computer skills. Expertise in microarray technology is desirable but not essential. The individual will work closely with network investigators and the technical staff at Affymetrix. A Ph.D. is required.

For more information, please see website: [www.immunetolerance.org](http://www.immunetolerance.org). If interested, please send curriculum vitae and references to:

**Jeffrey Bluestone**  
**Director, Immune Tolerance Network**  
**5841 South Maryland Avenue**  
**MC 1089**  
**Chicago, IL 60637**  
**FAX: 773-702-3701**

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## POSITIONS OPEN



**EXECUTIVE DIRECTOR OF THE OFFICE OF SPONSORED PROGRAMS,** reporting to Associate Vice President for Academic Affairs, Indiana State University. Description: Maintain and strengthen connections with external funding sources; develop campuswide training programs on extramural support opportunities, issues, and tasks; assist faculty, staff, administrators, and students to prepare and submit competitive proposals; monitor and update university-sponsored programs policy; support research and sponsored programs strategic planning; operate sponsored programs office distinguished by high-quality service and proactive customer orientation; provide staff support to university committees concerned with research and sponsored programs. Qualifications: Master's degree (Doctorate preferred); minimum three years of experience in sponsored program administration; record of success obtaining and administering extramural funds; familiarity with and commitment to electronic research administration; superior knowledge of federal and state governmental, as well as private, funding sources; thorough knowledge of federal and state governmental rules and regulations; exemplary skills in budgetary analysis and contract negotiation; vision, imagination, creativity, initiative, communication, supervisory, problem-solving skills. Prefer individuals experienced with intellectual property issues and technology transfer. Setting: ISU is a comprehensive, NCA-accredited, state-assisted institution with more than \$12 million in extramural grant and contract awards in FY99. A faculty of 575 full-time and 100 part-time members serves 10,000 students in undergraduate and graduate (Master's, specialists, and Doctoral) programs in seven academic units. Application: Cover letter relating education and experience to position description; résumé; names, addresses, telephone numbers, e-mail addresses of five references. Review of applicants begins January 14, 2000, and continues until position is filled. Applications received by February 18, 2000, will be given full consideration. Send to: **Chair of Search and Screen Committee, Executive Director of Sponsored Programs, c/o Office of Academic Affairs, Indiana State University, Terre Haute, IN 47809; Voice: 812-237-2862; FAX: 812-237-3607; e-mail: [aafsouth@amber.indstate.edu](mailto:aafsouth@amber.indstate.edu).** For a detailed position description, see website: <http://web.indstate.edu/oor> or send e-mail to: [ospchagr@amber.indstate.edu](mailto:ospchagr@amber.indstate.edu) and place the word "position" in the subject line. *ISU is an Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL POSITION** is available immediately to study presynaptic ligand-gated ion channels using patch clamp recording and confocal imaging. Applicants should preferably have experience in electrophysiology. Please send a curriculum vitae and the names of three references to: **Robert A. Nichols, Ph.D., Department of Pharmacology and Physiology, MCP Hahnemann University, 3200 Henry Avenue, Philadelphia, PA 19129.** E-mail: [robert.nichols@drexel.edu](mailto:robert.nichols@drexel.edu). *Equal Opportunity Employer.*

**Combinatorial Chemistry. POSTDOCTORAL POSITION** in novel peptide mimetic combinatorial chemistry project directed towards new antibacterial and anticancer agents is available. Experience with automated solid-phase peptide synthesis necessary. Please send curriculum vitae by e-mail to: [guthei37@ccvax.mmc.edu](mailto:guthei37@ccvax.mmc.edu) or by regular mail to: **William G. Gutheil, Department of Biochemistry, Meharry Medical College, Nashville, TN 37208.**

**A POSTDOCTORAL POSITION** is available to study mammalian cell cycle and tumorigenesis using functional approaches (*Science* 283:1129 and 282:2270). Requires background in cell and molecular biology and/or biochemistry. Send applications to: **Peiqing Sun, Ph.D., MB-41, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037.** E-mail: [pqsun@scripps.edu](mailto:pqsun@scripps.edu).

## POSITIONS OPEN

The Department of Cellular and Molecular Pharmacology at the University of California, San Francisco, wishes to recruit a **BIOLOGIST** in the Specialist series to coordinate part of a multi-University research project, the Alliance for Cell Signaling (AFCS). Rank and step will depend upon the individual's qualifications.

This individual will report to the chair of a key research committee within the AFCS and coordinate communications with other AFCS laboratories and scientists by Internet transmission of large data sets, spreadsheets, and graphical demonstrations, as well as Internet teleconferencing, letters, reports, and grant applications.

Requirements: The candidate must have a Bachelor's or Master's degree in biology or computer science and at least one to two years of experience as a laboratory technician or data analyst. He/she must have experimental expertise in cell biology, molecular biology, physiology, and/or pharmacology; and experience in analysis of complex quantitative data, using spreadsheets, statistics, and computer algorithms. In addition, the successful candidate must have the administrative skills required to coordinate a complex collaborative effort involving multiple sites and a number of people. Send curriculum vitae and references to: **Henry Bourne, M.D., Professor, UCSF, CMP, Box 0450, San Francisco, CA 94143.**

*In conformance with applicable law and University policy, the University of California is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

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

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

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

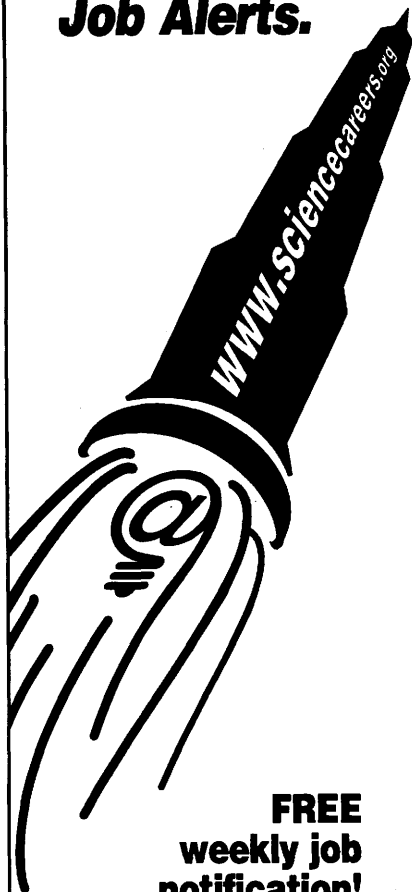
## POSTDOCTORAL POSITIONS

Available to study structural, functional, and evolutionary aspects of serine proteases. Expertise in computational biology, molecular biology, or enzymology required. Contact: **Enrico Di Cera, Department of Biochemistry and Molecular Biophysics, Washington University School of Medicine, Box 8231, St. Louis, MO 63110.** E-mail: [enrico@caesar.wustl.edu](mailto:enrico@caesar.wustl.edu).

**RESEARCH ASSOCIATE** position available. Novel approaches for altering gene expression in plants and manipulation of lipid metabolism. Candidates must have a Ph.D. in biochemistry, molecular biology, breeding/genetics, plant science, or related discipline, and demonstrated productivity. Contact: **Plant Biochemistry and Genetics Group, N106 AGN, University of Kentucky, Lexington, KY 40546.** E-mail: [David.Hildebrand@pop.uky.edu](mailto:David.Hildebrand@pop.uky.edu). *Affirmative Action/Equal Opportunity Employer.*



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## *Postdoctoral position*

### **Who we are**

Roche Genetics is a cross-divisional organisation within the Roche Group. Its mission is to integrate and optimize the deployment of human genetics in developing individualized healthcare packages spanning disease prevention, diagnosis and treatment. Based in Basel, Switzerland, the Genetics/Genomics Technology Platform supports these efforts by developing, validating, adapting and applying technologies in molecular genetics, genomics, proteomics and informatics.

### **The position**

We are looking for a postdoctoral fellow with practical experience in molecular biology and genetics to join a young and dynamic team working in the fields of positional cloning, DNA sequencing and DNA sequence variation analysis. You will contribute to ongoing discovery and development projects in the metabolic diseases area, planning research strategies and experimental designs and then performing the research. Your responsibilities will also include keeping up with the relevant literature and presenting key findings at national and international scientific meetings.

### **Who you are**

You must have a strong background in molecular genetics and molecular biology, with hands-on experience in manipulating DNA and protein expression levels. You should have a PhD in molecular biology, genetics or biochemistry and work experience in the field of medical or mammalian genetics. Experience in statistical analysis is highly desired. Experience in biostatistics would be a plus.

### **Who to contact**

If the above profile fits your background and experience and you are interested in this challenging postdoctoral position, please send your application, including full supporting documentation, to:  
F. Hoffmann-La Roche Ltd, Mr Werner Aschwanden,  
PSPB-1, 52/205, P.O. Box, CH-4070 Basel, quoting  
reference As2715.



## POSITIONS OPEN

### MIRIAM S. BECKNER POSTDOCTORAL FELLOWSHIPS IN CANCER RESEARCH

Penn State University Cancer Center at Hershey

We are pleased to announce a competition for two newly established Miriam S. Beckner Postdoctoral Fellowships in Cancer Research. These two-year Fellowships provide the opportunity for Postdoctoral Fellows to join one of approximately 20 well-established research groups focused in areas of cancer research at the Penn State University College of Medicine in Hershey. The research areas include molecular aspects of chemical and viral carcinogenesis; cancer immunology; cancer cell biology, which encompasses cell signal, cell cycle control, and tumor suppressors; and aspects of drug discovery, prevention, and treatment. The interactive research environment and the availability of excellent core facilities provide an outstanding training environment. Applicants for these fellowships are requested to send an overview of research accomplishments and interests, a curriculum vitae, and names of three references to: **Ms. Dianne Stare, Penn State University Cancer Center, H069, Penn State University, College of Medicine, 500 University Drive, Hershey, PA 17033.** Penn State is committed to Affirmative Action, Equal Opportunity, and the diversity of its workforce.

**PRE- AND POSTDOCTORAL FELLOWSHIPS IN PHYSIOLOGY AND BIOPHYSICS** at Finch University of Health Sciences/The Chicago Medical School. Applications for graduate study and postdoctoral positions in the Department of Physiology and Biophysics are invited. The faculty of the department use combinations of state-of-the-art cellular, molecular, and biophysical methods in their research on various aspects of physiology, such as cell volume regulation (**S. S. Garber, H. Rasgado-Flores**); properties and structure of ion channels (**H. Sackin**); active transport (**R. F. Rakowski**); signal transduction and regulation of channel function (**S. S. Garber, D. Kim**); molecular and secretory aspects of hypothalamic neuroendocrine activity (**C. D. Sladek, J. H. Urban**); structure and function of gap junctions (**L. Ebihara**); cerebral and renal energetics, transport, and metabolism (**R. A. Hawkins, D. R. Peterson**). Interested persons are encouraged to send inquiries to: **Dr. Janice H. Urban, Department of Physiology and Biophysics, FUHS/CMS, 3333 Green Bay Road, North Chicago, IL 60064** or communicate by e-mail: [physio@mis.finchcms.edu](mailto:physio@mis.finchcms.edu); website: <http://www.finchcms.edu/gps/physiology.html>. FUHS/CMS is an Affirmative Action/Equal Opportunity Educator and Employer.

**A POSTDOCTORAL POSITION** is available for an independent scientist with a strong background in protein chemistry, biochemistry, and/or electrophysiology. Current research goals include separation and biochemical purification of marine toxins from crude cnidarian venoms to isolate and characterize constitutive toxins responsible for the hemolytic, neurotoxic, proteolytic, immunogenic, and phospholipase activities. Future research directions include characterization of neurotoxic effects of isolated toxins using patch clamp and fluorescent imaging techniques. Minimum qualifications, Ph.D.; minimum monthly stipend, \$2,500. Please send curriculum vitae, cover letter, and three references by February 14, 2000, to: **Dr. Angel Yanagihara, Bekey Laboratory of Neurobiology, 1993 East West Road, University of Hawaii, Honolulu, HI 96822.** FAX: 808-956-6984; e-mail: [angel@pbrc.hawaii.edu](mailto:angel@pbrc.hawaii.edu). Equal Employment Opportunity/Affirmative Action.

**POSTDOCTORAL POSITION** to study glucocorticoid-induced apoptosis in leukemia/lymphoma cells (*JBC* 273:25015-25019, 1998). Send curriculum vitae and names of three references to: **Clark W. Distelhorst, M.D., Department of Pharmacology, Case Western Reserve University School of Medicine, W337, 10900 Euclid Avenue, Cleveland, OH 44106-4965.** E-mail: [cwg@po.cwru.edu](mailto:cwd@po.cwru.edu); website: <http://pharmacology.cwru.edu>. Equal Opportunity Employer.

## POSITIONS OPEN



### POSTDOCTORAL ASSOCIATES CENTER FOR STRUCTURAL AND MOLECULAR BIOLOGY Oak Ridge National Laboratory

The Oak Ridge National Laboratory (ORNL) invites applications for Postdoctoral Associates (with potential eligibility for future staff positions) for the Center for Structural Molecular Biology (CSMB), funded by the Office of Biological and Environmental Research (OBER). The Center, conceived by a team of scientists from both ORNL and the Los Alamos National Laboratory, will include the construction of a specially designed facility for the study of biological molecules, using small-angle neutron scattering (SANS). This instrument is planned on the new cold source being constructed on the High Flux Isotope Reactor (HFIR), currently operating at a power of 85MW, and will complement a suite of instruments funded by the Office of Basic Energy Sciences (BES). More information is available at website: [neutrons.ornl.gov](http://neutrons.ornl.gov).

The HFIR has a core flux exceeding  $10^{15}$  neutrons/sec/cm<sup>2</sup>, which is similar to the High Flux Reactor at the Institut Laue-Langevin in France, currently the most powerful source of "cold" neutrons. Thus, the flux of the HFIR SANS instrumentation will rival that of the best facilities in the world. The Center will also include mass spectrometry (MS), computational biology resources, and a laboratory for preparation of SANS and MS samples.

ORNL is seeking Postdoctoral candidates to assist with the design, construction, and optimization of the SANS facility and when the instrument has been brought on-line. CSMB staff responsibilities will include assisting visiting researchers to conduct experiments; calibrating and maintaining the spectrometer; and participating in instrument and equipment development projects, including software development. The ideal candidate will have experience in small-angle neutron and X-ray scattering instrumentation and data analysis, its applications to structural biology, and computing expertise.

For immediate consideration, send a résumé and list of three or more references to: **Michelle Buchanan, CSMB Director, Oak Ridge National Laboratory, P.O. Box 2008, Oak Ridge, TN 37831-6124.** Telephone: 865-574-4521; FAX: 865-574-3036. More information about ORNL can be found at website: [www.ornl.gov](http://www.ornl.gov).

ORNL, a multiprogram research facility managed by Lockheed Martin Energy Research Corporation for the U.S. Department of Energy, is an Equal Opportunity Employer committed to building and maintaining a diverse workforce.

### BASIC MUSCULOSKELETAL SCIENTIST

The Department of Orthopaedics at the New Jersey Medical School invites applications for a **TENURE-TRACK FACULTY POSITION**. Applicants with research interests in all areas of orthopaedic science will be encouraged. We are especially interested in applicants with research programs in tissue engineering and the study of cell-material interactions. Applicants must have a Ph.D. or its equivalent and at least two years of postdoctoral experience. Currently, basic research efforts in the Department focus on the study of biomaterials for skeletal repair, the molecular biology and biomechanics of bone healing, and the molecular analysis of skeletal development. Deadline for applications is January 3, 2000. Applicants should send their curriculum vitae, the names of three references, and a statement of research interests to: **Fred F. Behrens, M.D., Chairman, Department of Orthopaedics, UMDNJ-New Jersey Medical School, Doctors Office Center, Suite 5200, Newark, NJ 07103.** UMDNJ is an Affirmative Action/Equal Opportunity Employer, Minorities/Females/Handicapped/Veterans, and is a member of the University Health System of New Jersey.

## POSITIONS OPEN

### POSTDOCTORAL FELLOW IN FOREST ECOSYSTEM BIOGEOCHEMISTRY Cornell University

We seek a Postdoctoral Fellow to contribute to studies of nutrient cycles in temperate and/or tropical forest ecosystems. Our research group pursues broad conceptual questions on the development and maintenance of nutrient cycles (N, P, C, and base cations) in forest ecosystems and how these cycles are affected by human activities. We are also interested in nutrient transformations and trace-gas emissions that occur at terrestrial-aquatic interfaces, such as in riparian wetlands. Our studies include collaborations with other research groups and currently focus on unimpacted temperate forests in southern Chile and montane tropical forests in the Hawaiian Islands. We have strong interests in applications of stable isotopic techniques.

A successful applicant should have a broad background in ecosystem biology and a keen interest in the conceptual study of biogeochemical systems. Because of our interdisciplinary approach, we seek a person that is interactive and that enjoys integration across fields of study. We are particularly interested in individuals with backgrounds in stable isotope studies, studies of plant/microbe/soil nutrient transformations, hydrologic nutrient transport, and/or whole-ecosystem analysis. Facilities at Cornell include a new laboratory for stable isotope analysis and other state-of-the-art analytical equipment.

In addition to maintaining an active research program, the successful candidate is expected to contribute to an NSF-funded research and training program in Biogeochemistry and Environmental Change. This program coordinates research and training activities among faculty, postdoctorates, and graduate students at Cornell. The Postdoctoral Fellow will assist by leading a journal club and by helping with special workshops and other training activities.

Applicants should send a statement of qualifications, curriculum vitae, and three letters of reference to: **Dr. Lars O. Hedin, Program in Biogeochemistry and Environmental Change, Cornell University, Little Rice Hall, Ithaca, NY 14853.** For further information, contact: **Debbie McKane, Program Coordinator, Telephone: 607-255-1269; e-mail: [biogeo@cornell.edu](mailto:biogeo@cornell.edu); website: <http://biogeochem.es.cornell.edu/home.html>.** We will begin reviewing applications on February 15, 2000, and will continue until we find a suitable applicant. Cornell University is an Equal Opportunity/Affirmative Action Employer. Applications from women and minorities are encouraged.

### RESEARCH SCIENTIST POSITIONS THE CLEVELAND CLINIC FOUNDATION PROGRAM IN MACULAR DEGENERATION RESEARCH

Full-time research positions at levels equivalent to **ASSISTANT ASSOCIATE**, or **FULL PROFESSOR** are available in Ophthalmic Research in the new Cole Eye Institute. Basic Investigators or Research Clinicians with training in molecular biology, cell biology, biochemistry, developmental biology, electrophysiology, or human genetics with research interests that relate to the clinical areas of macular degeneration and inherited retinal diseases will be seriously considered.

New laboratory space, generous start-up funds, outstanding salary support, and benefit packages are available. Applicants for positions at the Associate level and above must have record of independent funding. Interested applicants should submit a statement of their research plans related to the focus of the above-described program, a copy of their curriculum vitae, and contact information for three references to:

**Joe G. Hollyfield, Ph.D.**  
Director of Ophthalmic Research  
Cole Eye Institute (FFB)  
The Cleveland Clinic Foundation  
9500 Euclid Avenue  
Cleveland, OH 44195-5245  
FAX: 216-445-3670  
E-mail: [hollyj@ccf.org](mailto:hollyj@ccf.org)

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**MAX-PLANCK-INSTITUTE**

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The Max Planck Society is seeking a

## DIRECTOR

to head the Division of Climate Modelling at the Max Planck Institute for Meteorology (MPIM) in Hamburg, Germany. MPIM is an institute for fundamental research focussing on climate and related problems of Global Change. It is organized in the three divisions Climate Modelling, Climate Dynamics and Climate Processes. The three division directors are elected members of the Max Planck Society and administer MPIM as a collegiate, with an executive director elected for a two year period by the directors. The divisions work closely together.

The Climate Modelling Division is responsible for the development and application of a hierarchy of sophisticated climate models, including general circulation models of the global atmosphere and ocean, models of ice sheets, the carbon cycle, biogeochemical cycles, as well as regional and process oriented models.

MPIM cooperates closely with the University of Hamburg, with which it shares various facilities, including the German Climate Computing Centre, a national facility whose largest share-holder is the Max Planck Society. The Climate Computing Centre is to receive a new top-of-the-line supercomputer shortly. MPIM will move into a new building in three years.

### Position

- Applicant is expected to develop a long-term numerical modelling strategy for the climate and Global Change system, including an improvement of the existing sub-system models and their coupling performance, the development of further modules, the modernization of model codes, and the provision of all models as user-friendly community models for the general research community.
- Applicant should develop a comprehensive research programme based on the application of the climate model system, including the analysis of the origin and predictability of natural climate and Global Change variability on all time scales, and the prediction of climate and Global Change due to man's activities.
- Applicant should play an active role in coordinating national and international joint research projects and in advising and training graduate students and postdoctoral scientists in collaboration with the University of Hamburg.

### Profile

- Ph.D. in meteorology, oceanography, physics or mathematics, with specialisation in climate modelling
- A track record of innovative research
- Significant publications in high ranking international journals
- Experience in coordinating major national and international research projects, and in raising the necessary funds
- A responsible attitude to necessary administrative tasks

### Terms of employment

Tenure at the rank of full professor, with salary dependent on experience. Generous retirement benefits are provided.

### Information and Application

More information can be obtained from Prof. Dr. Hartmut Graßl, Executive Director of the MPIM (grassl@dkrz.de). Applications should reach us not later than Tuesday, 29 February 2000.

**Max Planck Institute for Meteorology**  
Prof. Dr. Hartmut Graßl  
Bundesstrasse 55, D-20146 Hamburg  
Germany

*The Institute of Cancer Research  
(University of London)*

**CRC Centre for Cancer Therapeutics**  
Sutton, Surrey

## Professor of Chemistry

As an integral part of a series of new initiatives resulting from the appointment of Professor Paul Workman as Centre Director, we are now seeking a chemist of international standing to lead the Centre's Department of Chemistry. The Institute of Cancer Research together with the Royal Marsden NHS Trust represents the largest comprehensive cancer care centre in Europe. Located within the Sutton laboratories of the Institute, the Cancer Research Campaign Centre for Cancer Therapeutics is a multi-disciplinary 'bench to bedside' centre, comprising 120 staff dedicated to the discovery and development of novel therapeutics for the treatment of cancer. The person appointed will ideally have a strong background in medicinal chemistry with experience of combinatorial chemistry. We are seeking a highly motivated individual with a strong desire to develop state of the art chemistry skills in a multi-disciplinary collaborative cancer research and drug discovery environment. The person appointed will play a major leadership role in the development of chemistry in the institute.

Salary is negotiable. Informal enquiries may be made to Professor Paul Workman (tel: 0181 722 4301, email: paulw@icr.ac.uk).

**To apply, please send two copies of your CV including the names and addresses of two referees to The Dean, c/o Personnel Office, The Institute of Cancer Research, 123 Old Brompton Road, London SW7 3RP quoting reference number A59. For a job description and person specification please contact Miriam Mukasa in Personnel on 0171 970 6061.**

**Closing date: 14th February 2000.**



**cancer research campaign**



*winning over cancer*

## POSITIONS OPEN

### RNA MOLECULAR BIOLOGY

**POSTDOCTORAL POSITION** available to investigate mechanisms of posttranscriptional gene regulation, including mRNA degradation, translational control, or the structure and function of the HIV Rev protein. Molecular biological, biochemical, and genetic strategies will be used. **Website:** <http://saturn.med.nyu.edu/groups/BelascoLab/>. Send curriculum vitae, a brief summary of research experience, and the names of two references to: **Dr. Joel Belasco, Skirball Institute, New York University School of Medicine, 540 First Avenue, New York, NY 10016.**

### POSTDOCTORAL FELLOW RESEARCH FACULTY

The Department of Microbiology at the University of Nevada, Reno, School of Medicine, is seeking applications to fill six Postdoctoral Fellow/Research Faculty positions. The individual will conduct independent laboratory investigations supported by funds from federal and/or private agencies into interactions between mammalian serum proteins and microbes; receptor-cell interactions and signaling; and the molecular biochemistry of bacteria, cancer cells, fungi, parasite, and viruses. Requires Ph.D., M.D., or a terminal degree with research experience relevant to the above responsibilities. Training in molecular biology of microbes, macromolecular biochemistry, signal-host cell interactions, or cancer cell biochemistry is preferred. Send letter of application, curriculum vitae, and three names and addresses of personal references to: **Search Committee Chair, c/o Mrs. Jan Amesbury, Department of Microbiology/320, School of Medicine, University of Nevada, Reno, Nevada 89557-0046.** Application review will begin February 11, 2000. *Affirmative Action/Equal Opportunity Employer.*

### DUKE UNIVERSITY MEDICAL CENTER

A **POSTDOCTORAL POSITION** in pulmonary cell and molecular biology is now available to further our understanding of mechanisms of lung injury following bone marrow transplantation. The successful applicant should be experienced in biochemistry and analytical chemistry techniques. Additional experiences in molecular biology, gene cloning, gene expression, PCR, and cell culture are desired. We will be working with both mouse and human clinical samples. The successful applicant must have excellent oral and written English skills. The appointment will be for one year with renewal for years two and three possible. Please send your curriculum vitae, cover letter, and three letters of reference (with telephone number and address) to: **Rodney J. Folz, M.D., Ph.D., Duke University Medical Center, Box 2620, Room 331 MSRB, Durham, NC 27710.** For more information, contact **Telephone: 919-684-3539; FAX: 919-681-8936.**

**POSTDOCTORAL POSITIONS:** molecular biology of bacterial pathogenesis. Postdoctoral positions are available in the Department of Microbiology at the University of Colorado Health Sciences Center. Potential projects include analyzing structure, function, and trafficking of cholera toxin and developing chimeric cholera toxins as novel vaccines for mucosal immunization. A Ph.D. in microbiology, molecular biology, genetics, biochemistry, cell biology, or a related field is required. Research facilities and professional environment are excellent. Salary is commensurate with training and experience. Submit curriculum vitae, bibliography, and names of three professional references to: **Dr. Randall Holmes, Department of Microbiology, Campus Box B-175, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262.** The University of Colorado Health Sciences Center is committed to Equal Employment Opportunity and Affirmative Action.

## POSITIONS OPEN



### POSTDOCTORAL FELLOWSHIPS

Two positions are available immediately to study cell:cell interactions and signal transduction events in hematopoietic cells. Current areas of investigation include: actions of selectins and their ligands, cell cycle control in leukemic cells, and bone:bone marrow interactions. Candidates must hold a Ph.D. or equivalent degree in a biomedical science such as biochemistry, cell and molecular biology, physiology, or pharmacology. A strong background in molecular biology, biochemistry, and cell culture is also required. Recent publications: *Nature Biotech.* 15:1007, 1997; *Cell Growth and Diff.* 9:639, 1998; *Mol. Biol. Cell* 7:209, 1996; *Blood* 91:4118, 1998. Salary is commensurate with experience. Send résumé and three letters of recommendation to: **Dr. Michael Long, c/o Vickie Roosevelt, Room 3570 MSRB-II, University of Michigan, 1150 West Medical Center, Ann Arbor, MI 48109.** The University of Michigan is an Equal Opportunity Employer.

### POSTDOCTORAL FELLOW FOR GENE THERAPY RESEARCH IN HEAD AND NECK CANCER

The Department of Otolaryngology and the Division of Gene Therapy at Louisiana State University Health Sciences Center is seeking a Postdoctoral Fellow to conduct research in the molecular biology of head and neck cancer. The applicant must have two years of relevant laboratory experience and an M.D. or Ph.D. degree. It is recommended that the applicant have experience in flow cytometry, tissue culture, and immunohistochemistry. Please send curriculum vitae to:

**Paul L. Friedlander, M.D.,  
Department of Otolaryngology  
Louisiana State University Health Sciences Center  
2020 Gravier Street, Suite A  
New Orleans, LA 70112  
FAX: 504-568-4460**

*LSU Health Sciences Center is an Equal Employment Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL POSITION INSTITUTE OF CANCER GENETICS COLUMBIA UNIVERSITY

A Postdoctoral position is available to study the role of BRCA1/BRCA2 in breast cancer. Genetic and biochemical approaches will be used to investigate the mechanisms by which these genes suppress tumor formation. Our laboratory is part of the newly established Institute of Cancer Genetics, which provides a highly interactive environment for basic research on the molecular biology of human cancer. Recent Ph.D. or M.D. graduates with experience in molecular biology are preferred. Please send curriculum vitae and names of three references to: **Richard Baer, Ph.D., Institute of Cancer Genetics, Columbia University College of Physicians and Surgeons, Russ Berrie Pavilion, Room 313A, 1150 Saint Nicholas Avenue, New York, NY 10032.** E-mail: [rb670@columbia.edu](mailto:rb670@columbia.edu). Columbia University is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available immediately for studies of the molecular biology and evolution of a sea slug, algal chloroplast, retrovirus symbiosis. Strong background in molecular biology or virology required. Send curriculum vitae and three letters of reference to: **Dr. S. K. Pierce, Department of Biology, SCA 110, University of South Florida, 4202 East Fowler Avenue, Tampa, FL 33620.** E-mail: [pierce@chumal.cas.usf.edu](mailto:pierce@chumal.cas.usf.edu). The University of South Florida is an Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### FACULTY POSITION MOLECULAR MICROBIAL ECOLOGIST

The Department of Plant Pathology at Ohio State University, The Ohio Agricultural Research and Development Center, invites applicants for a tenure-track, 100% research position at the **ASSISTANT PROFESSOR** level in molecular microbial ecology. We are seeking a colleague who will use molecular techniques and/or functional genomics to examine fundamental questions in microbial ecology and develop a research program aimed at understanding soil microbial community structure and function relative to induced defense responses and other mechanisms of biological control of plant diseases. The successful candidate will develop collaborations with existing interdisciplinary teams. He/she will have access to state-of-the-art service facilities at the OARDC Molecular and Cellular Imaging Center. A curriculum vitae, copies of academic transcripts and selected publications, a statement of research interests, and three letters of recommendation should be sent to: **Dr. S. Kamoun, Department of Plant Pathology, OSU-OARDC, Wooster, OH 44691-4096.** **Website:** <http://www.ag.ohio-state.edu/~plantdoc/mme.html>. The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disabilities are encouraged to apply.

### ASSOCIATE PROFESSOR MICROBIOLOGY

The Department of Microbiology at the University of Nevada School of Medicine has available a position at the level of Associate Professor that is tenurable at 0.5 FTE with institutional funds. The successful candidate will be expected to generate the remaining 0.5 FTE from extramural funds. We seek an individual with an interest in emerging infectious diseases. The specific microorganism is open. The successful candidate will have a Ph.D., M.D., or equivalent degree and a currently funded research program. To ensure full consideration, applications must be received by February 15, 2000. Applicants should submit a letter of interest briefly describing relevant experiences and background, a curriculum vitae, and the names and addresses of three references to: **Thomas R. Kozel, Ph.D., Department of Microbiology/320, School of Medicine, University of Nevada, Reno, NV 89557.** The University of Nevada is an Affirmative Action/Equal Employment Opportunity Employer.

### POSTDOCTORAL RESEARCH SCIENTISTS COLLEGE OF PHYSICIANS AND SURGEONS OF COLUMBIA UNIVERSITY Department of Pharmacology

Experience in molecular biology, biochemistry, and/or patch clamp electrophysiology required for positions investigating the relationship between ion channel mutations and altered channel regulatory and pharmacological function related to inherited cardiac arrhythmias. Experiments are carried out in transiently transfected cell lines as well as in genetically engineered mice. Experiments are carefully integrated with clinical investigations of phenotypes and drug efficacy in mutation carriers. Curriculum vitae and the names and addresses of two references should be sent to: **Dr. Robert S. Kass, Department of Pharmacology, College of Physicians and Surgeons of Columbia University, PH 7W Room 318, 630 West 168th Street, New York, NY 10032.** Columbia University is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available to study cellular fatty acid transport and trafficking (*Cell* 79:427-436; *JBC* 273:28642-650; *JLR* 40:881-892). Ph.D., M.D., or V.M.D. and experience in molecular/cell biology required. Send curriculum vitae and names of two references with their e-mail/FAX to: **Dr. J. Schaffer, Washington University School of Medicine, 660 South Euclid Avenue, Box 8086, St. Louis, MO 63110.** E-mail: [jschaff@imgate.wustl.edu](mailto:jschaff@imgate.wustl.edu). FAX: 314-362-0186.

## The Wellcome Trust

### Overseas Senior Research Fellowships in Biomedical Science

#### Australia/India/New Zealand/South Africa

The Trust wishes to invite applications for five year senior research fellowships in biomedical science to be held in Australia, India, New Zealand and South Africa to commence in 2001/2002.

#### Eligibility

The fellowships are for outstanding researchers, either medically qualified or science graduates, who wish to establish a research career in an Australian, Indian, New Zealand, or South African academic institution. It is expected that candidates would have between **five and ten years'** research experience at a postdoctoral level or equivalent and have a substantial record of publications in their chosen area of research in leading international journals. Applicants need not be nationals of the country where they wish to hold their fellowships, however, it is expected that candidates will have spent a minimum period of three years of their postdoctoral (or equivalent) research career working outside their chosen country. Applications will be accepted from those who are currently overseas or who have returned to the country where the fellowship will be held. However, those who wish to work in Australia or New Zealand should not have been back for more than two years (at the closing date for full applications).

The salary offered will be according to age and experience and on appropriate academic scales. The essential costs of the research

programmes will also be provided, including research expenses, equipment and research personnel if appropriate. Fellows in South Africa and India will be eligible to apply for project and programme support from the Trust at the end of their fellowships.

#### Application Procedure

- Candidates are required to complete a preliminary application form which can be obtained from the Wellcome Trust Office or the Wellcome Trust Web site. The form should be returned to the Wellcome Trust by **28 April 2000. Late submissions will not be accepted.**
- Short-listed candidates will be notified in writing and invited to submit a full application in early July. These must be returned to the Wellcome Trust by 1 September 2000.
- Those selected for interview will be informed in writing in January 2001 and the interviews will take place in March 2001.

Enquiries and requests for preliminary application forms may be directed to: **Dr. Mary Phillips, International Programme Manager, The Wellcome Trust, 183 Euston Road, London, NW1 2BE, United Kingdom. Tel: +44 (0) 207 611 8410/8764.**

**Fax: +44 (0) 207 611 8373. E-mail: [international@wellcome.ac.uk](mailto:international@wellcome.ac.uk) URL: <http://www.wellcome.ac.uk>**



The Wellcome Trust is a Registered Charity, No. 210183, and its mission is to promote and foster research with the aim of improving human and animal health

## GLOBAL OPPORTUNITIES

### THE CHINESE ACADEMY OF SCIENCES

with support of the  
**MAX-PLANCK-GESELLSCHAFT**  
intends to establish two  
**INDEPENDENT RESEARCH GROUPS**  
at the Shanghai Institutes for Biological Sciences for  
**PROMISING YOUNG SCIENTISTS**

Applications are invited for positions as

#### RESEARCH GROUP LEADERS

from young scientists in China or abroad who have achieved a degree of international recognition in their field, preferably in

**DEVELOPMENTAL BIOLOGY  
CELL BIOLOGY  
MOLECULAR BIOLOGY  
NEUROBIOLOGY or  
IMMUNOLOGY**

The successful applicants will be expected to conduct fully independent, original and dynamic research programs.

The positions possess full scientific and economic independence and are limited to a maximum of five years. They are paid according to Chinese regulations; in addition, special social benefits, a supplement in foreign currency and travel grants are offered. The groups will have modern laboratory facilities and funding for scientific and technical co-workers. The operating expenses include funds in foreign currency.

Applications, including a tabular curriculum vitae, a list of publications with reprints of three selected papers, a description of major scientific achievements and a summary of future research plans, should be submitted in English by end of February, 2000 to

Uli Schwarz (Director)  
Max-Planck-Institut für Entwicklungsbiologie  
Postfach 2109, D-72011 Tübingen/Germany  
Fax No. +49-7071-601447

A group of finalists will be invited to present their projects at a symposium in Shanghai in the second half of May. Travel and accommodation expenses will be covered.

## EUROPEAN OPPORTUNITIES



### UNIVERSITY OF OXFORD

in association with St. Catherine's College

#### University Lectureship in Biophysics

Applications are invited for the above post, tenable from 1 October 2000 from persons with research interests in the field of biophysics. Preference will be given to candidates with expertise in molecular biophysics. University salary is on the scale £17,238 - £32,095 per annum. The successful candidate may be offered a tutorial fellowship by St. Catherine's College, in which case the combined university and college salary would be according to age on a scale up to £38,412 per annum. Additional college allowances may be available. Further particulars (containing details of the duties and full range of emoluments and allowances attaching to both the university and the college posts) may be obtained from: Professor J F Ryan, Department of Physics, Clarendon Laboratory, Parks Road, Oxford OX1 3PU, UK (Tel: 44 1865 272306; Fax: 44 1865 282208; e-mail: [j.ryan1@physics.ox.ac.uk](mailto:j.ryan1@physics.ox.ac.uk))

**Applications (ten copies except in the case of overseas candidates, when only one is required) should be submitted to Professor Ryan by 29 February 2000. These should include a curriculum vitae, list of publications, a statement of research interests/plans and teaching experience, together with the names of three referees (not more than two from the same institution), with telephone and fax numbers and e-mail addresses.**

The University is an Equal Opportunities Employer.

## POSITIONS OPEN

We are seeking several **POSTDOCTORATE FELLOWS** to study on NIH-funded grants related to induction and expression of brain metallothionein, pineal opioid receptors and analgesic action of melatonin, and ubiquinone and mitochondrial oxidative disorders of aging. Submit curriculum vitae, a comprehensive research statement outlining past accomplishments, future goals, and three letters of recommendation to: **Manuchair Ebadi, Ph.D., Professor and Chairman, Department of Pharmacology, Physiology, and Therapeutics, Professor of Neurosciences, Associate Dean for Research and Program Development, University of North Dakota School of Medicine and Health Sciences, 501 North Columbia Road, Grand Forks, ND 58203.** *UND is an Equal Opportunity Employer/Affirmative Action Institution.*

**POSTDOCTORAL POSITION** available to study regulation of synaptic plasticity and  $Ca^{2+}$  signaling. Preference will be given to applicants with previous experience in electrophysiology. This position can be filled at the junior or senior Postdoctoral level. We seek a motivated and experienced Physiologist to collaborate on projects that combine electrophysiological, biochemical, and behavioral techniques to study brain changes associated with aging and hormonal state. Qualified applicants should send letter of interest, curriculum vitae, and list of references to: **Dr. Tom Foster, Department of Pharmacology, University of Kentucky College of Medicine, MS-305 UKMC, Lexington, KY 40536-0084.** E-mail: [Tfoster@pop.uky.edu](mailto:Tfoster@pop.uky.edu).

**POSTDOCTORAL POSITION** in molecular and cell biology is available immediately to study telomere function during the cell division cycle in lower eukaryotes. The research is funded by NSF and conducted at a small liberal arts college in the Chicago area. Applicants must have a Ph.D. in molecular biology, cell biology, or genetics and a desire to do research at an undergraduate teaching institution with state-of-the-art research facilities and productive faculty. Send curriculum vitae and names of at least three references with contact information to: **Dr. Karen Kirk, Biology Department, Lake Forest College, 555 North Sheridan Road, Lake Forest, IL 60045.** *Applications from minorities and women are actively encouraged.*

**POSTDOCTORAL POSITION** available for a collaborative study of the mechanism of rotation of the photosynthetic ATP synthase. We are using hybrid  $F_1$ -ATPase complexes in combination with single-molecule imaging techniques. Experience in molecular biology and protein biochemistry a must; background in biophysical techniques advantageous. Contact: **Professor Z. Gromet-Elhanan (e-mail: [z.gromet-elhanan@weizmann.ac.il](mailto:z.gromet-elhanan@weizmann.ac.il)), Department of Biological Chemistry, or Dr. Gilad Haran (e-mail: [gilad.haran@weizmann.ac.il](mailto:gilad.haran@weizmann.ac.il)), Chemical Physics Department, Weizmann Institute of Science, Rehovot 76100 Israel.**

## POSTDOCTORAL POSITION AUTOIMMUNITY

Study basic mechanisms of systemic autoimmunity and tolerance (*J. Clin. Invest.* 104:345, 1999; *J. Exp. Med.* 187:367, 1998; *J. Immunol.* 162:5775, 1999). Expertise in cellular and molecular immunology required. Send résumé to: **Dr. Syamal K. Datta, Ward 3-315, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611.**

**POSTDOCTORAL POSITION.** A Postdoctoral position is available to carry out protein expression and enzymatic analysis of novel proteins involved in antibiotic biosynthesis in streptomycetes. Previous experience with protein expression and enzymology is required. Send curriculum vitae and names of three references to: **Dr. R. J. Parry, Department of Chemistry, MS-60, Rice University, 6100 Main Street, Houston, TX 77005-1892.** E-mail: [parry@rice.edu](mailto:parry@rice.edu).

## POSITIONS OPEN

**POSTDOCTORAL OPENING:** A Postdoctoral position is available to study new targets for the therapy of prostate and breast cancer. Using the EST database, new genes specifically expressed in prostate and breast have been identified. These genes will be cloned and characterized. Antibodies will be isolated by phage display and developed for the targeted therapy of cancer. A strong background in molecular biology is required. Applicants must have a Ph.D. or M.D. degree and should have less than five years of postdoctoral experience. Send curriculum vitae and contact information of three references to: **Ira Pastan, M.D., Laboratory of Molecular Biology, National Cancer Institute, National Institutes of Health, Building 37, Room 4E-16, 37 Convent Drive MSC 4255, Bethesda, MD 20892-4255.** Telephone: 301-496-4797; FAX: 301-402-1344; e-mail: [schombea@pop.nci.nih.gov](mailto:schombea@pop.nci.nih.gov).

## POSTDOCTORAL/RESEARCH ASSOCIATE POSITION

Two NIH/NCI-funded positions are available to study the genetics of human neuroblastoma. A large resource of human primary tumors and cell lines available to the successful candidate for the development of novel approaches to gene identification and characterization. Real-time quantitative PCR and microarray facilities available. Send curriculum vitae and names of three references to: **John M. Maris, M.D., Children's Hospital of Philadelphia, Division of Oncology, University of Pennsylvania School of Medicine, Abramson Pediatric Research Building, 902A 3516 Civic Center Boulevard, Philadelphia, Pa 19104-4318.** FAX: 215-590-3770; e-mail: [maris@email.chop.edu](mailto:maris@email.chop.edu); website: [www.chop.edu](http://www.chop.edu).

Two **POSTDOCTORAL POSITIONS** are available immediately to study molecular mechanisms involved in stimulation of neutrophils. Areas of investigation include regulation of cofilin and involvement of protein kinase cascades in transcription. Experience in protein phosphorylation, immunofluorescence microscopy, and molecular biology is desirable. Please submit a curriculum vitae and names of three references to: **John A. Badwey, Center for Experimental Therapeutics and Reperfusion Injury, Anesthesia, Brigham and Women's Hospital, Harvard Medical School, 75 Francis Street, Boston, MA 02115.** FAX: 617-278-6957. *An Equal Opportunity/Affirmative Action Employer.*

Two **POSTDOCTORAL POSITIONS** are available to study fatty acid transport, trafficking, and gene regulation in yeast. A Ph.D. and experience in molecular biology and/or lipid and protein biochemistry are required. Please send curriculum vitae and names, telephone numbers, and e-mail addresses of at least two references to: **Dr. Paul N. Black, Center for Cardiovascular Sciences, Albany Medical College, MC-10, 47 New Scotland Avenue, Albany, NY 12208.** E-mail: [blackp@mail.amc.edu](mailto:blackp@mail.amc.edu). *Albany Medical College is an Equal Opportunity Employer.*

**POSTDOCTORAL POSITION:** transcranial magnetic stimulation. A Postdoctoral position is available for technical, modeling, and psychophysical research in transcranial magnetic stimulation. The emphasis is on improvements of the stimulation. A broad background including electric engineering (EEG, MEG) and neuroscience is preferable. Extendable to two years. Send curriculum vitae to: **Professor Shinsuke Shimojo, CNS 139-74, Caltech, Pasadena, CA 91125.** E-mail: [sshimojo@its.caltech.edu](mailto:sshimojo@its.caltech.edu).

**POSTDOCTORAL POSITION** available immediately to study the mechanisms of sexual transmission of HIV. Emphasis is on the role of reproductive tract epithelia and cell trafficking in HIV transmission. Send curriculum vitae, the names and addresses of three individuals to whom letters of reference can be sent, and a letter of interest to: **Dr. David Phillips, Population Council, 1230 York Avenue, Box 273, New York, NY 10021.** Telephone: 212-327-8744; FAX: 212-327-7678; e-mail: [dphillips@popcouncil.org](mailto:dphillips@popcouncil.org).

## POSITIONS OPEN

### POSTDOCTORAL POSITION IN SIGNAL TRANSDUCTION Yale University School of Medicine Department of Cell Biology

Position available in a laboratory focused in signal transduction. Candidates have a recent Ph.D. or a first Postdoctoral period in molecular approaches in signal transduction. The position is for two years minimum, starting between January 2000 and September 2000. Candidates should send a curriculum vitae immediately and the names of two references to: **Dr. Roland Baron, Yale University School of Medicine, 333 Cedar Street, Building SHM, Room IE55, New Haven, CT 06510.** E-mail: [roland.baron@yale.edu](mailto:roland.baron@yale.edu). *An Affirmative Action/Equal Opportunity Employer.*

**POSTDOCTORAL SCIENTIST** needed for research involving the discovery and characterization of novel cancer genes for immunotherapy. Strong foundation in immunology required. Excellent opportunity for new Ph.D. graduate to conduct clinically applied cancer research in a collaborative academic and industrial environment. *Candidate must be U.S. citizen or have appropriate work permit.* Send curriculum vitae and three references by e-mail (MSword compatible), FAX, or mail to: **Michael L. Salgaller, Ph.D., Member, Molecular Medicine Department, Northwest Hospital, 2203 Airport Way South, Suite 200, Seattle, WA 98134.** E-mail: [mls@nwbio.com](mailto:mls@nwbio.com); FAX: 425-608-3026/3004.

**POSTDOCTORAL POSITION** to study the role of Src class tyrosine kinases at the neuromuscular junction (NMJ), using molecular and cellular approaches. Projects include investigating the (1) molecular basis by which MuSK and Src kinases act in concert to regulate the AChR; (2) localization and function of Src kinases within the cytoskeleton; (3) mechanisms for recruitment and activation of Src kinases at the NMJ; (4) roles of Src kinases in regulating AChR clustering, cytoskeletal anchoring, and channel properties. See *JBC* 274:20529. Contact: **Dr. S. L. Swope, EP08 NRB, GUMC, 3970 Reservoir Road, Washington, DC 20007.** E-mail: [swopes@gicc.georgetown.edu](mailto:swopes@gicc.georgetown.edu).

**POSTDOCTORAL POSITIONS** to study the regulation of herpes virus gene expression *in vitro* and *in vivo*. The studies may include structure/function analysis of the viral regulatory proteins, the biochemistry of virus/host interactions, or the development of viral vectors. Applicants should possess a Doctoral degree in molecular genetics, biochemistry, or virology. Applicants should send a current curriculum vitae and list of references to: **Neal DeLuca, Ph.D., Professor, Department of Molecular Genetics and Biochemistry, E1257 Biomedical Science Tower, University of Pittsburgh School of Medicine, Pittsburgh, PA 15261.**

**POSTDOCTORAL FELLOWSHIP** in molecular genetics available immediately. Candidates must have Ph.D. in molecular genetics and experience in molecular genetics research. Projects include linkage, mapping, and identification of candidate genes in animal and human studies. Good publication record is a plus. Salary and benefits competitive; possibility exists for long-term position. Send cover letter, curriculum vitae, and names of three references to: **Ms. Farrell, Loma Linda University, P.O. Box 7210, Loma Linda, CA 92354.** *LLU is an Equal Opportunity Employer.*

**RESEARCH ASSOCIATE/POSTDOCTORAL POSITIONS** available immediately to study protein: protein and electron transfer reactions of cytochrome P450 under anaerobic conditions. Knowledge of stopped-flow spectrophotometry, enzyme kinetics, and/or molecular biology preferred. Salary dependent on qualifications and experience. A Ph.D. in chemistry, biochemistry, or molecular biology required. Send résumé and three letters of reference to: **Dr. L. Waskell, Research Service, VAMC, 2215 Fuller Road, Ann Arbor, MI 48105.** E-mail: [waskell@umich.edu](mailto:waskell@umich.edu).

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS MOLECULAR BASIS OF SYNAPTIC PLASTICITY

Electrophysiologists to investigate how the molecular architecture affects synaptic transmission and LTP. Biochemists/Cell Biologists to study kinase anchoring and glutamate receptor clustering at postsynaptic sites. Please see website: [www.wisc.edu/molpharm/Graphics/faculty/hell.html](http://www.wisc.edu/molpharm/Graphics/faculty/hell.html). If you are truly enthusiastic about performing research in a highly interactive and creative environment at the University of Wisconsin-Madison and appreciate a teamwork approach, please send your curriculum vitae to e-mail: [jwhell@facstaff.wisc.edu](mailto:jwhell@facstaff.wisc.edu).

**POSTDOCTORAL POSITION** available starting between July and October 2000. NIH-funded research into selenobiology of HIV. Ph.D. plus at least two years of experience in molecular biology/virology/immunology required. Experience with molecular biology of HIV and cloning/expression of selenoproteins is highly desirable. Must be willing to work with HIV+ cell lines and 75Se isotope. Experience in handling and use of 75Se or similar radioisotopes is essential. Starting salary \$21,000 to \$28,000 depending on experience. Send curriculum vitae and three reference letters by February 4, 2000, to: **Dr. Ethan Will Taylor, College of Pharmacy, University of Georgia, Athens, GA 30602-2352.** An Equal Opportunity/Affirmative Action Employer.

## COURSES & TRAINING

**SHORT COURSE ON TIME-RESOLVED FLUORESCENCE SPECTROSCOPY.** The Center for Fluorescence Spectroscopy, at the University of Maryland School of Medicine, is offering a Short Course on principles and applications of time-resolved fluorescence spectroscopy in Baltimore, March 20-24, 2000. The course will cover basic and advanced topics in fluorometry, including time and frequency-domain measurements, and Forster energy transfer. Advanced topics include chemical sensing, imaging, fiber optics, infrared fluorometry, two-photon excitation, instrumentation, confocal and multiphoton microscopy, protein fluorescence, DNA technology, high-throughput screening, metal-ligand probes, and immunoassays. Textbook, course materials, lunches, and refreshments will be provided. For further information, a schedule, and fees, please contact: Ms. Mary Rosenfeld or Prof. J. R. Lakowicz, The Center for Fluorescence Spectroscopy, Department of Biochemistry and Molecular Biology, 725 West Lombard Street, Baltimore, MD 21201. Telephone: 410-706-8409; FAX: 410-706-8408; e-mail: [cfs@cfs.umbi.umd.edu](mailto:cfs@cfs.umbi.umd.edu); website: <http://cfs.umbi.umd.edu>. Deadline for enrollment is February 1, 2000, with later enrollment if space permits.

### WORKSHOP ON MOLECULAR EVOLUTION

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## POSITIONS OPEN

### POSTDOCTORAL RESEARCH ASSOCIATE

The Graduate Program in Ecology and Evolutionary Biology is seeking a Postdoctoral Research Associate to assist in teaching a fall semester course in human anatomy. The second semester will be available for full-time research. This position is available for the 2000-2001 academic year with a possibility for a two-year renewal. Applicants must have experience with a cadaver-based human gross anatomy course, a Doctorate, and potential for excellence in teaching and research in evolutionary morphology.

Applicants should submit a résumé which includes teaching experience, research interests, list of publications, representative reprints, and have three letters of reference (to be received by March 1, 2000) sent to: **Dr. G. E. Goslow Jr., Box G-B210, Division of Biology and Medicine, Brown University, Providence, RI 02912.** Applications received by March 1, 2000, will receive full consideration. *Brown University is an Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL POSITION** in molecular toxicology. An NIH-funded Postdoctoral position is available immediately to conduct research on the molecular regulation of cytochrome P450A genes in animal and cell culture systems. A Ph.D. with good molecular biology experience is essential. Please send curriculum vitae and names and telephone numbers of three references to: **Bhagavatula Moorthy, Ph.D., Assistant Professor, Department of Pediatrics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030.** FAX: 713-798-5691; e-mail: [bmoorthy@neo.bcm.tmc.edu](mailto:bmoorthy@neo.bcm.tmc.edu).

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For information and requests of nomination forms, please contact:

**Dr. René P. Michel**  
Secretary, The Louis and Artur  
Lucian Award Committee  
McGill University

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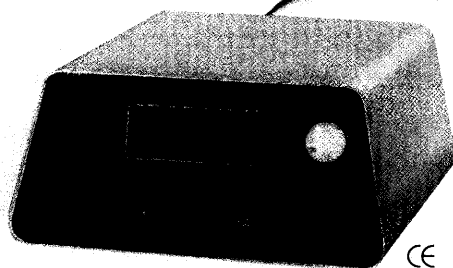
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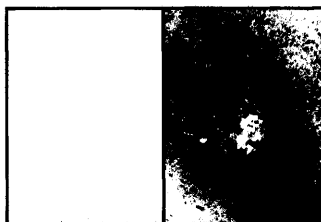


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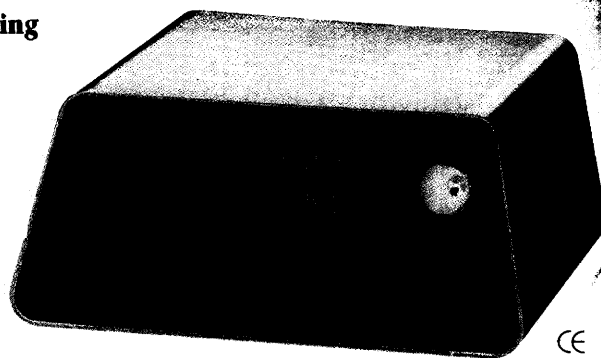
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Nishi, T., et al. High efficiency gene transfer in solid tumors by *in vivo* electroporation. Cancer Gene Therapy, vol.4(6), P-56 (1997)



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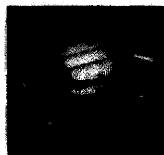
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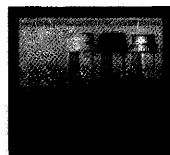
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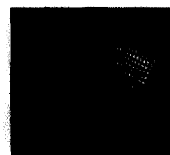
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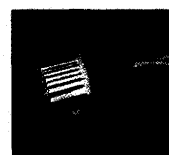
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