

# NEW PRODUCTS

## EcoBeaker 2.0 BeakerWare

Ithaca, NY  
\$85; students, \$39;  
site license options available  
212-658-9104  
[www.ecobeaker.com](http://www.ecobeaker.com)

## MODELING ECOSYSTEMS

Computational biology is coming into its own as a research tool at the molecular level, but computer modeling of processes in ecosystems has been around for some time. Aimed at college students, EcoBeaker is a software product that uses model-

ing to depict ecosystem changes on a computer screen.

The program is organized into 21 units called "laboratories." Laboratories typically consist of a system in which the process being modeled occurs, a collection of species that reside in the system, and a set of parameters that affect the species' reproduction, evolution, and/or survival. When a laboratory is activated, the species in the system act within the bounds of their parameters. In a nutshell, the program depicts the reproduction or evolution of species with the use of two-dimensional plots that illustrate relative numbers of each species as time passes. Users can vary the parameters, to some extent, and observe the effects on the system as a whole.

The usefulness of the program as a teaching tool to illustrate complex ecological phenomena is enormous. Take, for example, the module called Copepods, which plots the competition between phytoplankton, zooplankton, and fish in their native environment. Phytoplankton grow in the upper part of the system and are dependent on light. Zooplankton eat phytoplankton and fish eat the zooplankton. Users can control the speed of zooplankton swimming, the vertical migration rates of zooplankton, the presence or absence of fish, and the number of phytoplankton in a cluster needed to reproduce. By varying these parameters and then activating the laboratory, users can observe the effects of the changes on the cyclic population changes of each species.

In addition to simple competition between species, the program also has modules that illustrate the effects of external components, such as sewage or oil spills, on a system. Evolution related to function, such as bird beak size, is also illustrated by the program. The software author notes that he designed it for "fiddling" around, and it is this feature of the program that is its strongest asset. Students learn from tweaking the parameters and observing the effects on the species in the system.

Besides encouraging learning by simple manipulation of the parameters, the author also facilitates development of new modules by including the source code and macros used to drive the laboratories. This is a bonanza for biological educators who like to dabble in programming and should enable the development of a large number of new software products based on EcoBeaker. A version aimed at high school students is also available.

—Kevin Ahern

The author is in the Department of Biochemistry and Biophysics, Oregon State University, Corvallis, OR 97331, USA. E-mail: [ahernk@onid.orst.edu](mailto:ahernk@onid.orst.edu)

## Stratagene

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## RNA PURIFICATION KIT

The Absolutely RNA microprep kit is suitable for isolating total RNA from small starting samples and laser microdissection samples. This kit is designed for samples con-

taining 1 cell to  $5 \times 10^5$  cells. Isolation of total RNA takes place in a single spin cup, with DNA removal performed directly in the

spin cup to maximize RNA recovery. The resulting RNA is suitable for purifying laser microdissection samples for quantitative reverse transcription-polymerase chain reactions, microarray target generation, and other applications.

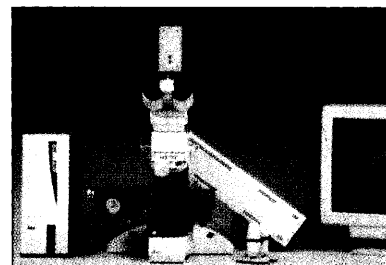
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## LASER MICRODISSECTION SYSTEM

The AS LMD is a laser microdissection system that offers a patented, automated noncontact technique that allows dissection of select individual cells, groups of cells, or even a

single chromosome with the highest accuracy. The AS LMD is based on an upright, automated microscope that includes a motorized nosepiece, motorized stage, and automated xyz-control element. The AS LMD makes use of an innovative design with a pulsed ultraviolet laser that is uniquely directed through the optics, allowing the stage to remain stationary while cutting. A benefit of the design is the ability for the precision of the laser beam cutting to increase in proportion to the objective magnification; greatest precision is attained at the highest magnification. This design allows for any shape or size to be dissected. Paraffin sections, frozen sections, blood smears, and immunolabelled specimens are all appropriate for microdissection. Once the area of interest is cut, the sample falls directly into the microcentrifuge tube because of gravity, with no additional force of contact necessary to recover dissected samples. By using the principle of gravity, samples are treated far more gently and without contact, reducing the chance for contamination.



## Arcturus

For more information  
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[www.scienceproductlink.org](http://www.scienceproductlink.org)

## RNA ISOLATION AND INTEGRITY KITS

The HistoGene LCM Frozen Section Staining Kit is optimized for the preparation of frozen tissue sections for laser capture microdissection.

The HistoGene process, which features a proprietary stain solution, preserves RNA integrity, which can be compromised with other, harsher staining protocols. The kit is part of Arcturus' integrated system for microgenomics centered around the Pix-Cell II Laser Capture Microdissection System. The system also includes the PicoPure RNA Isolation Kit and the RiboAmp RNA Amplification Kit. These tools enable researchers to obtain and amplify enough intact mRNA from a single microdissection to probe multiple microarrays. All elements have been optimized and experimentally validated for studying gene expression in small, pure cell populations. For example, the PicoPure RNA Isolation Kit is optimized to recover the maximum amount of total cellular RNA, while maintaining RNA integrity and recovering even low-abundance mRNA. The kit delivers RNA in as little as 10  $\mu$ l of buffer, ready for use in gene expression studies. The iso-

CONTINUED ON PAGE 1332

lated RNA can then be amplified using the RiboAmp kit to produce microgram quantities, ready for labeling and hybridization onto microarrays

#### Carl Zeiss

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#### PALM LASER MICROBEAM SYSTEM

The PALM Laser MicroBeam System is for precise microdissection, microablation, and contamination-free recovery of homogeneous cell areas, single cells, or subcellular structures. Microscopically small objects can be microdissected, captured, fused, or microinjected with very high precision. Only the forces of light are used for optical micromanipulation. A high-photon density nitrogen ultraviolet laser is interfaced into the microscope and focused through an objective to a beam spot size of less than 1  $\mu\text{m}$  in diameter. The MicroBeam system precisely cuts out a selected area or a single cell, with a clear-cut gap between the selected and nonselected area. No contaminating biological material is left at the site of laser exposure and ablation. Specimens of any shape and size from one to hundreds of micrometers in diameter can be isolated. Unwanted cells within a selected area can be destroyed with a few laser shots to achieve homogeneous samples.

#### Arcturus

For more information

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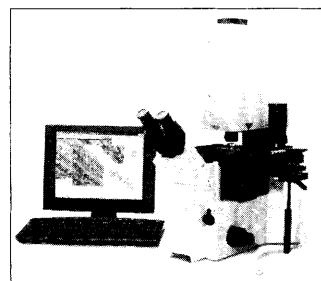
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#### LASER CAPTURE MICRODISSECTION SYSTEM

The PixCell Ile Laser Capture Microdissection System includes a redesigned optical system that provides sharper, more resolved

images for microdissection of individual cells and multicellular structures from fixed tissue sections or cytological samples. In addition to improved image quality, the redesigned optics significantly narrow the diameter of the laser beam. The narrower beam, combined with smoother mechanics that increase the precision of the stage movement, greatly enhances the utility of the system for precise microdissection of small individual cells. The PixCell Ile System also includes several changes designed to make laser microdissection more convenient, such as foot-pedal activation of the laser and a flat-screen monitor. As part of a complete system for microgenomics, the laser capture microdissection platform provides a powerful sample preparation tool for researchers in pathology, cancer biology, neuroscience, developmental biology, and other fields.



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#### DUAL INDEPENDENT REPORTER SCREENING ASSAY

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## WOMEN'S INTERNATIONAL SCIENCE COLLABORATION (WISC) PROGRAM 2002–2003

**OVERVIEW** ▶ The Women's International Science Collaboration (WISC) Program is funded by the National Science Foundation (NSF) and administered by the Directorate for International Programs of the American Association for the Advancement of Science (AAAS). Because the application rate of women scientists and engineers to work with colleagues overseas to the NSF Office of International Programs has been disproportionately low, the goal of this Program is to increase the participation of women as PIs and co-PIs in international research projects. This program provides grants to individual US scientists who plan to establish new research partnerships with their colleagues in Central/Eastern Europe, the Newly Independent States of the former Soviet Union, Near East, Middle East, Africa, the Americas, Pacific, and Asia. Each grant, up to \$4,000 or \$5,000, will provide travel and living support for a US scientist. When appropriate, an additional grant may be made to an American co-PI. The grants do not cover salary or institutional expenses (e.g. overhead). US scientists can spend up to four weeks

in a partner country to develop a research program and design. The grantee's home institution will be responsible for overseeing the grantee's adherence to NSF and federal guidelines regarding grant administration.

**ELIGIBILITY** ▶ Both male and female scientists who have their Ph.D.s or equivalent research experience are eligible, although there are special guidelines for each region in this regard. Potential applicants should review the full program guidelines (URL below) or consult a AAAS administrator. Applicants must be US citizens or permanent residents of the US. Graduate students (Ph.D. candidates) are also eligible to apply, if they will be conducting research in an established Ph.D. program in the US. Government employees can only apply if they also are affiliated with another institution eligible to receive NSF grants (e.g. an adjunct professorship at a university).

**NEXT DEADLINE** ▶ July 15, 2002 (notification by October 15)



**INFORMATION** ▶ For questions, please contact the appropriate AAAS administrator: Karen Grill (Central/Eastern Europe, Newly Independent States of the former Soviet Union), [kgrill@aaas.org](mailto:kgrill@aaas.org); Suteera Nagavajara (East Asia, Pacific), [snagavaj@aaas.org](mailto:snagavaj@aaas.org); Alan Bornbusch (Africa, Middle East, Near East, South Asia), [abornbus@aaas.org](mailto:abornbus@aaas.org); Marina Ratchford (Americas, Caribbean), [mratchfo@aaas.org](mailto:mratchfo@aaas.org). For complete guidelines and application forms please visit our website at: [www.aaas.org/international/wiscnew.shtml](http://www.aaas.org/international/wiscnew.shtml)



## FEATURING: MICRODISSECTION

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The 100 nl dispensing head provides a superior level of performance in terms of accuracy and precision while making use of the Sciclone's large, open access deck, precision motion, and wide range of application-specific accessories. The system has an operating range of 100 nl to 5  $\mu$ l, delivering coefficients of variation of more than 5%.

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### FLUORESCENT LABELING OF PROTEINS

The EZ-Label Fluorescent Labeling Kits contain everything necessary to successfully label large or small proteins, even if there is only a

small amount of protein sample available. Each ready-to-use kit includes fluorescent dye in handy individual microtubes, dimethylformamide, ready-to-hydrate borate and phosphate buffers, prepacked salting columns, Slide-A-Lyzer Mini Dialysis Units, and amber reaction tubes for easy fluorescent labeling on the lab benchtop. The kits are available in fluorescein, rhodamine, and fluorescein isothiocyanate formats.

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### LITERATURE

Epicentre has three technical sheets available: *Obtain PCR-Ready Genomic DNA from Buccal Cells, HeLa Cells, Hair Follicles, Tail Snips, Bacterial Cells, or Feathers Using the*

*QuickExtract DNA Extraction Solution; In Vitro Synthesis of 2'-Fluoro-Modified RNA Transcripts That Are Completely Resistant to RNase A Digestion Using the DuraScribe T7 Transcription Kit; and In Vitro Insertion of a Transposon Containing an E. coli Origin of Replication Facilitates Rapid Recovery, Propagation and Sequencing of Circular DNA Molecules from Heterologous Organisms.*

### Axon Instruments

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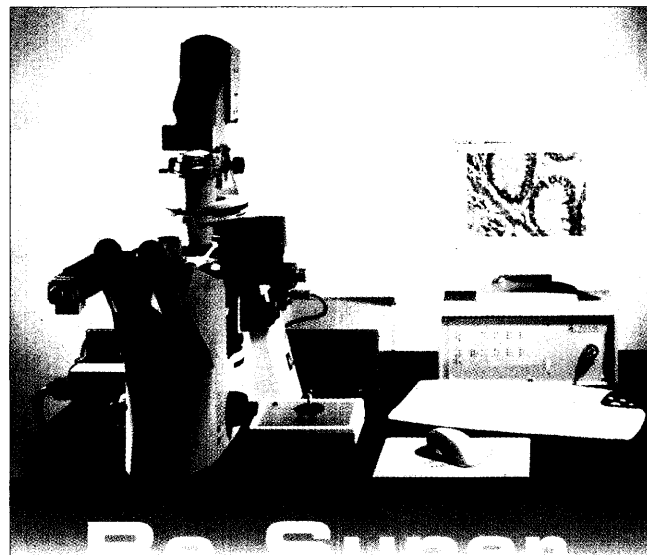
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Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, 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 manufacturer or supplier by visiting [www.scienceproductlink.org](http://www.scienceproductlink.org) on the Web, where you can request that the information be sent to you by e-mail, fax, mail, or telephone.



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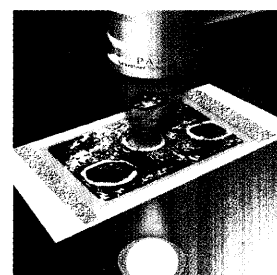
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### POSITIONS OPEN

#### CHAIR, DEPARTMENT OF BIOCHEMISTRY AND MICROBIOLOGY University of Victoria, Victoria, British Columbia, Canada

The Department of Biochemistry and Microbiology is seeking a new Chair to lead this research-intensive Department through a period of transition as it adds to and replaces a significant fraction of its current membership in the next five years. The Department is committed to quality undergraduate and graduate teaching and has a strong Cooperative Education program. The faculty currently consists of 12 full-time, one cross-appointed, and five adjunct faculty members. Two Canada Research Chair appointees will join the Department in 2003. Every full-time faculty member in the Department has an active research program with funding sources including NSERC, CIHR, NCI, the NIH, and other agencies. The Department maintains facilities for protein microchemistry, mass spectrometry, fermentation, Level Three biocontainment, flow cytometry, and imaging and bioinformatics. The Department is seeking a person with outstanding academic credentials and administrative skills. Further information about the Department can be found at its website: <http://web.uvic.ca/biochem/>. Interested individuals should send documentation of their teaching, leadership, and research accomplishments and list of three potential references to: **Dean of Science, P.O. Box 3055 STN CSC, University of Victoria, Victoria, BC V8W 3P6 Canada. E-mail: [scidean@uvic.ca](mailto:scidean@uvic.ca)**. Consideration of candidates will begin June 15, 2002, and continue until the position is filled. The appointment will be tenured and of appropriate rank.

*All qualified applicants are encouraged to apply; however, Canadians and permanent residents will be given priority. The University of Victoria is an Equity Employer and encourages applications from women, persons with disabilities, visible minorities, and aboriginal peoples.*

#### FACULTY POSITIONS Pharmacology and Toxicology Dartmouth Medical School

The Department of Pharmacology and Toxicology seeks candidates for tenure-track ASSISTANT/ASSOCIATE PROFESSOR faculty positions. Candidates should have a Ph.D. and/or M.D. degree(s) and an outstanding academic record. The Department consists of faculty with broad expertise in cellular and molecular pharmacology and toxicology (website: <http://www.dartmouth.edu/dms/pharmtox/>) along with strong ties to the Norris Cotton Cancer Center, an NCI-funded comprehensive cancer center. Candidates should submit curriculum vitae, a statement of research interests and accomplishments, a record of grant support, and names of at least three references to: **Chair of the Search Committee: Dr. Alan Eastman, Department of Pharmacology and Toxicology, Dartmouth Medical School, 7650 Remsen, Hanover, NH 03755-3835. Dartmouth, an Equal Opportunity/Affirmative Action Employer, strongly encourages applications from women and minority candidates.**

The Department of Radiology/Martinos Center for Biomedical Imaging, NMR Center, at the Massachusetts General Hospital/Harvard Medical School, is seeking a full-time faculty member at the INSTRUCTOR or ASSISTANT PROFESSOR level.

Candidates should possess an M.D. or Ph.D. degree, an established list of publications, grant writing experience, and the ability to initiate and conduct multidisciplinary medical imaging research. A strong background in physical, mathematical, and/or computational science as well as experience in the application of imaging and biomedical technology is necessary.

Interested applicants should send a cover letter describing teaching and research interests, experience, and an updated curriculum vitae to: **Bruce R. Rosen, M.D., Ph.D., MGH-NMR Center, Building 149 (2301), 13th Street, Charlestown, MA 02129. The Massachusetts General Hospital and Harvard Medical School is an Equal Opportunity and Affirmative Action Employer.**

### POSITIONS OPEN

#### DIRECTOR OF THE ANIMAL RESOURCES CENTER

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

#### ASSISTANT/ASSOCIATE PROFESSOR (Tenure-Track) Cell and Developmental Biology

Required qualifications: Ph.D. or equivalent degree in a biological/biomedical science or related field, postdoctoral experience, research background in cell/developmental biology, ability to teach a development course in the professional curriculum. Must have or will have extramural funding. Excellent aquatic and laboratory animal facilities. Salary and rank will be commensurate with qualifications including start-up package. Application deadline is June 30, 2002, or until candidate is selected. Submit letter of application and résumé to: **Gary E. Wise, Ph.D., Comparative Biomedical Sciences, School of Veterinary Medicine, Louisiana State University, Reference Number 014396, Baton Rouge, LA 70803. Telephone: 225-578-9889. Louisiana State University is an Equal Opportunity/Equal Access Employer.**

#### FACULTY POSITION IN DEVELOPMENTAL BIOLOGY Department of Molecular, Cell, and Developmental Biology

The Department of Molecular, Cell, and Developmental Biology is searching for a Developmental Biologist. Appointment will be considered at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level. Applicants with outstanding accomplishments, particularly those using genetic approaches in model organisms, are strongly encouraged to apply.

Submit curriculum vitae, summary of research plans, and names and addresses of at least three references to: **MCDB Faculty Search; website: <http://www.mcdb.ucla.edu/jobs/index.php>. Visit us at website: <http://www.mcdb.ucla.edu>; also see website: <http://www.uclaaccess.ucla.edu>. We will begin reviewing applications on June 15, 2002. UCLA is an Equal Opportunity/Affirmative Action Employer.**

#### ASSISTANT/ASSOCIATE PROFESSOR

X-ray Crystallographer position in biochemistry and molecular biology at Finch University of Health Sciences/Chicago Medical School with research interests in macromolecular structure/function. Candidates must have excellent potential and/or an established research program. Details at website: <http://www.finchcms.edu/biochem/Biochem.html>. Send curriculum vitae and names of three references to: **Dr. K. E. Neet, Chairman, Finch UHS/Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064.**

## **Director, National Institute of General Medical Sciences (NIGMS) National Institutes of Health (NIH)**

**THE POSITION:** The NIH is seeking exceptional candidates for the position of Director, NIGMS. The NIGMS primarily supports basic biomedical research that is not targeted to specific diseases or disorders. Because scientific breakthroughs often originate from such untargated studies, NIGMS-funded work has contributed substantially to the tremendous progress that biomedical research has made in recent years. In addition, the NIGMS is the principal source of support for research training at NIH, supporting nearly half of the NIH-funded pre-doctoral trainees. The NIGMS administers a FY 2002 budget of \$1.73 billion and employs a staff of 180 to support the Institute's efforts.

This position offers a unique opportunity for the right individual to provide strong and visionary leadership to an organization dedicated to promoting the development of new scientific knowledge regarding the fundamental structures and life processes that underlie human health. The NIGMS Director provides leadership, direction, and coordination of the Institute's programs; formulates overall policies relating to the Institute's programs and goals; provides management and administrative services to the Institute; collects, develops and disseminates information on basic biomedical research undertakings; and insures that results of NIGMS research are appropriately evaluated and transferred to the medical community and the public.

In addition to the leadership and managerial/administrative responsibilities described, the incumbent may carry out his/her own research program. Resources commensurate with the proposed program will be provided.

**THE QUALIFICATIONS REQUIRED:** Applicants must possess an M.D. and/or Ph.D. degree and have experience in the scientific and administrative aspects of basic biomedical research or research training programs funded through Federal grants. They should be known and respected within their profession, both nationally and internationally, as individuals of outstanding scientific competence. Candidates should have demonstrated leadership of a research program involving dealings with outside groups and extensive planning, program assessment, and analysis of program objectives; the development of plans for the resolution of major operational problems and issues; and management of financial and human resources, including selecting, managing, and motivating staff using fair and equitable staffing/recruitment practices.

**SALARY/BENEFITS:** The Director, NIGMS, will be appointed at a salary commensurate with his/her qualifications and experience. Full Federal benefits, including leave, health and life insurance, retirement and savings plan (401K equivalent) will be provided.

**HOW TO APPLY:** Applicants must submit a current Curriculum Vitae and bibliography to: Ms. Jane Spencer, Division of Senior and Scientific Employment, National Institutes of Health, Building 31, Room B3C08, 31 Center Drive MSC 2203, Bethesda, MD 20892-2203. Applications may also be sent via E-Mail to: [SpencerJ@od.nih.gov](mailto:SpencerJ@od.nih.gov). In addition, applicants are strongly encouraged to prepare a supplemental narrative statement that addresses the qualifications requirements and to provide the names and addresses of three to five references.

**APPLICATIONS MUST BE RECEIVED BY CLOSE-OF-BUSINESS July 15, 2002**

**NIH IS AN EQUAL OPPORTUNITY EMPLOYER**

The NIH encourages the application and nomination of qualified women, minorities and individuals with disabilities.

**Reasonable Accommodation:** NIH provides reasonable accommodations to applicants with disabilities. If you require reasonable accommodation during any part of the application and hiring process, please notify us. The decision on granting reasonable accommodation will be made on a case-by-case basis.

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, gender, sexual orientation, national origin, political affiliation, marital status, disability, age or membership or non-membership in an employee organization.

**Standards of Conduct/Financial Disclosure:** All employees of the Federal Government are subject to the conflict of interest statutes and regulations, including the Standards of Ethical Conduct, that govern activities with outside organizations and reporting financial holdings. This position will require that the incumbent complete a financial disclosure report. Applicants are encouraged to review the Conflicts of Interest Fact Sheet that may be found at: <http://ethics.od.nih.gov/FactSheet.htm>. Additional information may also be found at the NIH Ethics Program web site at: <http://ethics.od.nih.gov>.

**Dow** is a leading science and technology company that provides innovative chemical, plastic and agricultural products and services to many essential consumer markets. With annual sales of \$30 billion, Dow serves customers in more than 160 countries and a wide range of markets that are vital to human progress, including food, transportation, health and medicine, personal and home care, and building and construction, among others. Committed to the principles of sustainable development, Dow and its 50,000 employees seek to balance economic, environmental and social responsibilities.

#### **Ecotoxicologist Specialist (Job # 0200054)**

Conduct environmental toxicity evaluations in support of regulatory and environmental stewardship programs, with an emphasis on experimentation on aquatic plants and algae. In addition the successful candidate will be responsible for conducting acute and chronic aquatic toxicology studies for product development; consulting on a wide variety of ecotoxicology issues; and leading scientific research on topics of interest to Dow businesses. MSc in Environmental Toxicology, Limnology, Botany or equivalent area with experience in aquatic plant, algal experimentation. Expert knowledge of design, data generation, outcomes, and general interpretive principles in environmental toxicology required. Experience in the culturing of algae and aquatic plant test species is desired, along with excellent written and oral communication skills and an ability to manage multiple projects. A working knowledge of U.S. and International regulatory testing guidelines and GLP standards is preferred. The successful candidate should have demonstrated an ability to work individually and within a strong team environment.

#### **Post-doctoral Research Associate (Job # 0200098)**

Conduct research on environmental topics relating to non-target impacts of chemicals on fish species, such as endocrine disruption screening protocols and chemical mixtures testing. Ph.D. in Environmental Toxicology, Zoology, or equivalent. Experience with aquatic vertebrates, and previous laboratory experience with endocrine disruption issues (measurement of vitellogenin and/or sex steroid levels, etc.) is desired. Excellent communication skills are required. The successful candidate should have demonstrated an ability to work individually and within a strong team environment.

*Dow is an Equal Opportunity Employer offering a competitive compensation and benefits package. Positions are located in Midland, MI*

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THE J. DAVID GLADSTONE INSTITUTES

## **Postdoctoral Fellow**



**GLADSTONE INSTITUTE  
OF NEUROLOGICAL  
DISEASE**  
UNIVERSITY OF CALIFORNIA  
SAN FRANCISCO

Postdoctoral Fellowship in the laboratory of Dr. Fen-Biao Gao to study dendrite morphogenesis in development and neurological disorders, and participate in scientific activities at Gladstone and UCSF. Candidates should possess a Ph.D., M.D. or both and have a strong background in neuroscience, molecular biology or developmental biology. Job # N02-07S

Gladstone offers an exceptional program for postdoctoral fellows, including rigorous scientific training, personalized mentoring, and a rich research environment. In addition, Gladstone offers excellent benefits, including employer-paid medical programs, paid vacation, and various retirement programs.

Please submit a curriculum vitae and the names of three references to:

The J. David Gladstone Institutes  
Human Resources Job # N02-07S  
P.O. Box 419100  
San Francisco, CA 94141-9100

email: [postdoc@gladstone.ucsf.edu](mailto:postdoc@gladstone.ucsf.edu)  
web: <http://gladstone.ucsf.edu/hr/>

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Affirmative  
Action Employer

### **Tenure-Track Faculty Position Cutaneous Biology Feinberg School of Medicine of Northwestern University**

The Department of Dermatology invites applications for a full-time tenure-track appointment at the rank of Assistant Professor or higher. Candidates must hold a Ph.D., or a combined M.D./Ph.D. degree and relevant postdoctoral experience with a strong record of excellence in research. The start date is negotiable. Although the research area in cutaneous biology is open, preference will be given to applicants with significant experience utilizing genetic approaches to study signaling mechanisms regulating development of epithelia and the immune system. Individuals with active grants in this area will be given preference. The successful candidate will be expected to maintain and expand an established, independent, externally funded research program. The individual will also hold a joint appointment in a basic science department with access to graduate students, and is expected to participate in their teaching program. A competitive salary, start-up package, and new laboratory space will be provided.

To insure full consideration, submit the following material: (1) current curriculum vitae and list of publications and grant support; (2) brief statement of research interests; and (3) contact information for three references no later than July 31, 2002 to **Dr. John Ansel, Chair, Department of Dermatology, Feinberg School of Medicine, Northwestern University, 675 North St. Clair Street, Suite 19-150, Chicago, IL 60611. E-mail: [j-ansel@northwestern.edu](mailto:j-ansel@northwestern.edu)**. Please refer to Academic Search Number **P-231-02**.

*Northwestern University is an Equal Opportunity/Affirmative Action Employer. Hiring is contingent upon eligibility to work in the United States. Women and minorities are especially encouraged to apply.*

### **Department of Pharmacology University of Minnesota Medical School TENURE/TRACK POSITIONS (Assistant Professor, Associate Professor, Professor)**

The Department of Pharmacology ([website: www.pharmacology.med.umn.edu](http://www.pharmacology.med.umn.edu)) at the University of Minnesota invites applications for tenure/track faculty positions at the rank of **Assistant Professor, Associate Professor or Professor**. Requirements for the Assistant Professor position include a Ph.D. in Pharmacology or other basic biomedical science, and/or an M.D. degree, and at least 2 years of relevant postdoctoral research experience. Applicants must have a strong record of research accomplishments, as documented by publications in leading peer-reviewed journals. Appointment as **Associate Professor or Professor** will be considered for applicants with professional distinction in published research, teaching and evidence of consistently attracting extramural funding for research. Appointment at these ranks must meet the qualifications established by the University of Minnesota and the Department of Pharmacology. Successful candidates will be expected to develop an innovative, competitive research program supported by extramural funding and to participate in teaching undergraduate, graduate and professional courses. Applicants using molecular, cellular or integrative approaches to study problems relevant to pharmacological sciences are encouraged to apply.

Applicants should indicate the rank for which they are applying and send their curriculum vitae, reprints of important publications, a brief statement of research plans and have three reference letters sent to: **Dr. Tim Walseth, Search Committee Chair, Department of Pharmacology, University of Minnesota, 6-120 Jackson Hall, 321 Church Street S.E., Minneapolis, MN 55455-0217.**

Review of applications will begin June 1, 2002. Positions will remain open until filled.

*The University of Minnesota is an Equal Opportunity Educator/  
Employer and offers an excellent academic research environment.*

# Friedrich Miescher Institute for Biomedical Research



## Director

The Friedrich Miescher Institute for Biomedical Research was established in 1970 as an independent Foundation by J.R. Geigy AG and CIBA AG. It is now part of the Novartis Research Foundation.

The scientific mission of the Institute is to investigate in a multidisciplinary way the basic principles of system biology of the entire organism, with special emphasis on brain function. The disciplines include Neurobiology, Growth Control, Epigenetics, and Computational Biology, among others.

The FMI is an international biomedical research centre with 280 members, including 25 staff scientists, 180 postdoctoral fellows and graduate students. It occupies 5000 m<sup>2</sup> laboratory space. The Institute is located in Basel, a city offering an outstanding scientific environment in the centre of Europe.

The candidate must be an internationally well known, highly respected scientist with broad research interests and a vision for the FMI as a centre of excellence. The Director will be responsible for co-ordinating FMI's research, fostering interdisciplinary collaboration among the group leaders, and establishing strong scientific contacts with Novartis. The FMI is a part of the Basel biomedical research community and the Director should be actively engaged in participating in its activities.

Competitive salary and benefits will be provided.

Candidates are invited to submit their applications before July 1st directly to:

Professor Paul L. Herrling, PhD, Head of Research, Novartis Pharma AG, WSJ- 386.1306, CH-4002 Basel Switzerland  
e-mail: paul.herrling@pharma.novartis.com

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### Virologists

We currently have multiple opportunities for experienced Virologists to conduct experiments with the aim to discover, identify and evaluate preclinical antiviral compounds. These positions require a PhD in Virology or Molecular Biology and a comprehensive knowledge of virology as it applies to molecular biology and biochemistry methods that can lead to novel antiviral assay development. Experience with positive strand RNA virology and/or retrovirology is preferred, and industrial drug discovery experience is advantageous.

Pfizer offers an exceptional work environment complete with competitive salaries, excellent benefits and training opportunities designed to develop your professional talents. We encourage all applicants to apply by emailing your resume, indicating Req. #02Apr0212188 in the subject field, to [SCI@pfizerresumes.com](mailto:SCI@pfizerresumes.com). If necessary, you may also mail your resume, indicating Req. #, to Pfizer Resume Processing Center, 630 Boston Road M-104, Billerica, MA 01821, Attn: Softshoe Resumes. An equal opportunity employer, Pfizer offers a workplace rich with diversity and potential.



Global Research & Development



## POSITIONS OPEN

### VETERINARY ANATOMY

College of Veterinary Medicine, Mississippi State University, is seeking nominations and applications for a tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** faculty position in veterinary anatomy with a 60 percent commitment to instruction. The successful candidate will participate primarily in instruction in the preclinical years of our professional curriculum. Duties and responsibilities include development of anatomical models, small group facilitation, and anatomy instruction. Other responsibilities include a commitment to research or service depending on the qualifications and experience of the successful applicant. Excellent opportunities for collaborative research exist in our Center for Environmental Health Sciences, Biomedical Research Center, and the areas of infectious diseases and vaccinology. Candidates must be capable and willing to work cooperatively with faculty and students of other departments and divisions of the university. Required minimum qualifications: advanced training (M.S. or Ph.D.) with an emphasis in veterinary or comparative anatomy (gross or microscopic anatomy, embryology, or developmental biology). Desirable qualifications: D.V.M. or equivalent degree; specialty training in related clinical disciplines (i.e., surgery or radiology). Salary and rank are commensurate with qualifications and experience. Please send letters of nomination or applications including curriculum vitae, names and addresses of three professional references, and a statement of career goals to: **Dr. Phillip Nelson, Associate Dean, College of Veterinary Medicine, P.O. Box 6100, Mississippi State, MS 39762-6100**. Applications will be accepted until a suitable candidate is identified. *Mississippi State University is an Affirmative Action/Equal Employment Opportunity Employer.*

### FACULTY POSITION, TENURE TRACK Cardiovascular Genetics/Genomics

The Division of Cardiology at Columbia University, College of Physicians and Surgeons, is seeking M.D. and/or Ph.D. candidates for an immediately available tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** position in cardiovascular genetics/genomics. The generous start-up package includes committed resources for supporting personnel, research support, and dedicated research space. Candidates should have well-developed research focus/record in cardiovascular genetics/genomics. The Division currently maintains active NIH-funded research programs in vascular biology, diabetes, cardiac metabolism, molecular cardiology, and arrhythmia. Broader available resources include the Columbia University Genome Center and the medical center, which serves a large, ethnically diverse patient population with a special emphasis on patients with arrhythmia, congenital heart disease, heart disease, heart failure, atherosclerosis, and stroke. Candidates should send curriculum vitae (names of references) and a letter outlining their research interests to: **Dr. David J. Pinsky, Chair, Cardiovascular Genetics/Genomics Search Committee, Columbia University, Department of Medicine, 630 West 168th Street, New York, NY 10032**. E-mail: [djp5@columbia.edu](mailto:djp5@columbia.edu). *Columbia University is an Equal Opportunity/Affirmative Action Employer.*

**POSTDOCTORAL FELLOW** to join the Program in Structural and Molecular Neuroscience at the Mailman Research Center, McLean Hospital, doing *in vitro* electrophysiology in a partial rodent model of schizophrenia using a state-of-the-art setup with Gibraltier Platform with X,Y stage; an MP-285 micromanipulator; Agilent S4622A oscilloscope; A.M.P.I. multichannel stimulator; HEKA EPC-9 patch clamp apparatus, TME antivibration table, and Stoelting APP-1 pipette puller. A LEICA laser microdissection apparatus and Affymetrix microarray system are available for gene expression profiling in specific subtypes of GABA cells exposed to amygdalar activation. Appointment at Harvard Medical School and opportunities to establish an independent research program. Contact: **Dr. F.M. Benes; e-mail: benesf@mclean.harvard.edu; Telephone: 617-855-2401**.

## POSITIONS OPEN

### DIRECTOR

Center for Medical, Agricultural, and  
Veterinary Entomology  
Gainesville, Florida

This is a Senior Executive Service position with the Agricultural Research Service (ARS), U.S. Department of Agriculture. The Director of the Center for Medical, Agricultural, and Veterinary Entomology (CMAVE) is responsible for providing leadership and direction to six research units conducting investigations in detection and management of insect pests and disease vectors affecting animals, humans, and plants and in crop genetics and environmental quality. Approximately 40 Scientists at CMAVE represent a variety of disciplines including entomology, chemistry, genetics, molecular biology, plant physiology, agronomy, agricultural engineering, botany, microbiology, soil science, and zoology. This position requires considerable flexibility and skill in providing effective research leadership to a diversity of CMAVE programs, many of which are cooperative and multidisciplinary and involve other ARS laboratories as well as local, state, national, and international government; academic and private-sector laboratories; institutions; and organizations. The Center Director will provide systematic, coordinated planning to achieve broad, goal-oriented research results and to ensure transfer of technology to producers, consumers, and industry. The incumbent must establish and maintain effective work relationships with federal and state action and regulatory agencies, cooperators, and representatives of consumers and industry groups. A Ph.D. in a discipline related to the position is highly desirable. Salary range is \$122,000 to \$138,000. For program information, please contact: **Dr. Karl Narang, Area Director; Telephone: 706-546-3311; e-mail: skn@saa.ars.usda.gov**. The complete vacancy announcement and information about how to apply is found at website: <http://www.afm.ars.usda.gov/divisions/hrd/vacancy/> or contact **Human Resources Division; Telephone: 301-504-1448**. Applications must be received by June 24, 2002. *USDA, ARS is an Equal Opportunity Employer.*

### TENURE-TRACK POSITIONS

University of Louisville  
James Graham Brown Cancer Center

The James Graham Brown Cancer Center of the University of Louisville is in the process of a major program expansion in molecular and cell biology of cytokines with an emphasis on the role of chemotactants in cancer. Current areas of interest include but are not limited to tumor metastasis, angiogenesis, and immunotherapy. Two tenure-track positions are available, one with an endowed chair for a **SENIOR INVESTIGATOR** and one at **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level depending on qualifications. Applicants must have an M.D. and/or Ph.D., significant postdoctoral research experience, and a strong publication record. Both will be expected to establish independently funded research programs. Successful candidates will join an active group of Investigators working on tumor immunotherapy, chemotactant receptor regulation of inflammatory processes, molecular modeling of DNA and proteins, chemokines in stem cell biology, signal transduction, and oligonucleotide-mediated gene therapy. The Brown Cancer Center houses excellent shared facilities for molecular and cell biology including flow cytometry and cell sorting, molecular modeling, microarray, proteomics, surface plasmon resonance spectroscopy, and transgenic mice. Please send curriculum vitae with bibliography, a synopsis of research interests, and names and telephone/e-mail addresses of at least three references to:

**Dr. Bodduluri Haribabu**  
James Graham Brown Cancer Center  
University of Louisville  
529 South Jackson Street  
Louisville, KY 40202  
Telephone: 502-852-7503  
E-mail: [h0bodd01@gwise.louisville.edu](mailto:h0bodd01@gwise.louisville.edu)

## POSITIONS OPEN

### FACULTY POSITIONS University of Puerto Rico

The Institute for Tropical Ecosystem Studies anticipates an opening for two tenure-track positions to be filled at the rank of **ASSISTANT PROFESSOR**. The Institute is seeking individuals possessing a Ph.D. with significant research experience in two of four areas: (1) bioinformatics: persons developing computer methodologies for sharing distributed ecological or systematic databases; (2) ecological modeling with preferences given to individuals whose research involves the development and application of models of biogeochemical cycles or of the atmosphere; (3) vertebrate ecology, preferably a person with an interest in conservation and management of rare species; and (4) hydrology. The successful applicant will be invited to develop a research program in coordination with the Luquillo Long-Term Ecological Research (LTER) program and will be expected to seek additional extramural funding and publish their results in respected journals. A light teaching load at the undergraduate and graduate levels will also be required. Candidates should direct their application including (1) a description of their research and teaching interest, (2) curriculum vitae, (3) copies of all university transcripts, and (4) three letters of recommendation with a cover letter indicating the position sought to: **Search Committee, Institute for Tropical Ecosystem Studies, University of Puerto Rico, Rio Piedras Campus, Natural Science College, P.O. Box 23341, San Juan, PR 00931-3341**. Website: <http://www.ites.upr.edu>; e-mail: [n\\_melendez@rrpadm.rrp.upr.edu](mailto:n_melendez@rrpadm.rrp.upr.edu). Review of applications will begin August 1, 2002, and continue until the positions are filled. *The University of Puerto Rico is an Equal Opportunity/Affirmative Action Employer. Minorities/Women/Veterans/Disabled.*

### ASSOCIATE DIRECTOR

Transgenic Mouse/ES Cell Shared Resource

A **NONTENURE-TRACK FACULTY** position is immediately available to oversee daily operations of the Transgenic Mouse and Embryonic Stem Cell Shared Resource at Vanderbilt University Medical Center. The successful candidate will receive a salary and compensation package that is highly competitive with similar positions at other academic institutions. The applicant should have extensive knowledge and experience in targeting vector construction, ES cell culture, transgenic and knockout mouse generation, animal health issues, and barrier techniques. Must be able to work independently; have strong organizational skills; and be able to train and communicate with Scientists, technicians, and collaborators. The successful candidate will directly supervise a staff of four to six highly skilled individuals. Ample opportunities exist for attending national workshops and meetings to keep abreast of recent developments in the field.

Qualified applicants should submit their curriculum vitae, names of three references, and a cover letter detailing their career objectives to: **Cathleen C. Petter, Ph.D., Director, Transgenic Mouse/ES Cell Shared Resource, Department of Cancer Biology, 776 PRB, 23rd Avenue and Pierce Avenue, Nashville, TN 37232**. Applications accepted until position is filled.

### FACULTY POSITIONS

The Department of Biological Science and Technology at National Chiao Tung University, Taiwan, seeks junior and senior applicants for faculty positions to develop an extramurally funded research program in the areas of bioinformatics, proteomics, immunology, molecular and cellular biology, glycobiology, bioelectronics, biophysics, and biochemistry. Appointment requires a Ph.D. with at least two years of postdoctoral training in related discipline. The successful candidate is expected to teach undergraduate and graduate courses. Send curriculum vitae, statement of research interests and teaching courses, and three letters of reference to: **Dr. J.K. Hwang, Chair, Department of Biological Science and Technology, National Chiao Tung University, 75 Po Ai Street, Hsin Chu, Taiwan 30050, Republic of China**.



The USDA, Agricultural Research Service is accepting applications for a senior scientist to head its **Proteomics Research Laboratory** in Ithaca, NY. The successful candidate should have a strong background in protein biochemistry and have experience in protein separation and analysis techniques, such as the generation and analysis of 2D-gels from complex biological samples, multidimensional liquid chromatography, and mass spectrometry for characterization of proteins. The candidate is expected to join ongoing collaborative projects within the ARS in plant and microbial functional genomics, adapt and extend high-throughput proteomics protocols, and direct a laboratory that includes an ABI 4700 tandem time-of-flight mass spectrometer. Preference will be given to applicants with a proven interest in interdisciplinary research projects, publications in an area relevant to proteomics, experience in supervision of research projects with staff and research students and effective project management skills. Salary is commensurate with experience (\$64,542 to \$99,150). Applicants must be U.S. citizens.

For more detailed information on this vacancy, visit <http://www.afm.ars.usda.gov/divisions/hrd/index.html> on the Internet. For information on the research program contact **Dr. Leon Kochian** ([lvk1@cornell.edu](mailto:lvk1@cornell.edu)). Applications must be marked ARS-X2E-2267 and postmarked by June 10, 2002.

*The USDA is an Equal Opportunity Employer. Women and minorities are encouraged to apply.*



## TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER

School of Medicine  
Department of Microbiology and Immunology  
Lubbock, Texas 79430  
(806) 743-2545  
FAX (806) 743-2334

**Cancer Biology and Immunology Post-Doctoral Positions.** Post-Doctoral Positions are available immediately to study differential gene expression in human cancer for the discovery of candidate tumor associated antigens to be developed as therapeutic cancer vaccines. Studies will employ novel paired tumor and normal cell lines derived from patients with advanced cancer to identify and characterize differentially expressed genes in human tumor cells. Studies will focus on human prostate and lung cancer. Candidates with a strong background in molecular and cellular biology with emphasis on methods of analyzing differential gene expression (e.g. DD-RT-PCR, SAGE, cDNA subtraction library generation, RDA) and an interest in tumor immunotherapy should send a CV, cover letter describing research interests and experience and three references to **Dr. Robert Bright** at the address below.

**The Health Sciences Center.** The Health Sciences Center is part of the Texas Tech University System, the only university system in the state with a comprehensive academic campus, law school and medical center on the same campus. Texas Tech is the largest research university system in West Texas, a Carnegie I institution providing education and support to approximately 25,000 students. This represents a unique opportunity to live in a college campus environment where the cost of living is affordable and opportunities abound.

**The City of Lubbock.** Located in the heart of the South Plains, Lubbock offers a rich history, a dynamic economy, and a unique culture. A thriving city of almost 200,000 people, Lubbock serves as the region's economic, educational, and health care hub. But while Lubbock offers plenty of big-city amenities, it still maintains an atmosphere of small-town hospitality and West Texas charm. Also located in the geographic center of North America, Lubbock's mild climate adds to its appeal. The area is generally referred to as the High Plains because of its elevation, 3,254 feet above sea level. It has a semi-arid climate that provides an ideal setting for the agricultural industry that thrives here.

**Robert K. Bright, Ph.D.**  
Associate Professor  
Department of Microbiology and Immunology  
Director of Basic Research  
Southwest Cancer Center  
Texas Tech University Health Sciences Center  
3601 4th Street, 5B191  
Lubbock, TX. 79430

[Robert.bright@ttmc.ttuhsu.edu](mailto:Robert.bright@ttmc.ttuhsu.edu)  
<http://www.ttuhsu.edu/pages/micro/mainweb/bright.html>

*Texas Tech University Health Sciences Center is an Equal Opportunity Employer.*

## COLUMBIA UNIVERSITY'S BIOSPHERE 2 CENTER

### FACULTY POSITION EARTH SEMESTER PROGRAM

**Earth System Science.** Columbia University will expand its Arizona campus education programs over the next five years. The Earth Semester is a 16-credit, interdisciplinary, undergraduate program in Earth System Science and Policy held at Columbia's Biosphere 2 Center in Oracle, Arizona. Faculty appointments are made through Columbia's Department of Earth and Environmental Science. We are currently seeking a teacher/scholar in the area of Earth System Science. We are especially interested in candidates with a background in climate or geohydrology or climate change. Teaching and postdoctoral experience are desirable. The appointment will be made at the Assistant or Associate Professor level and will begin Fall 2002. Experienced candidates will also be considered for the Director of Earth Semester, providing leadership to the program.

A letter of interest highlighting the applicant's educational philosophy and research interests, and names of 3 references should accompany a C.V. Materials for all positions should be sent to: **Human Resources, Biosphere 2 Center, P.O. Box 689, Oracle, AZ 85623.** Review of applications will begin on **May 31, 2002** and continue until the position is filled; applicants are encouraged to send materials early. Columbia University is an Equal Opportunity Employer. Minorities and Women are encouraged to apply. For more information see <http://www.bio2.columbia.edu>.

### USDA, AGRICULTURAL RESEARCH SERVICE SUBARCTIC AGRICULTURAL RESEARCH UNIT FAIRBANKS, ALASKA

A Research Entomologist/Research Leader position is open immediately at the GS-14/15 level. U.S. citizenship is required. Salary is commensurate with experience in the range of \$70,205 to \$107,357 plus 25% cost of living adjustment and benefits. The incumbent provides critical leadership and expertise in integrated pest management (IPM) practices and mitigation strategies, and contributes to cooperative efforts with other ARS, public and private research programs. The mission of the unit is to improve the understanding and control of invasive plant pests, plant pathogens or weeds of agricultural importance in subarctic cropping and Alaskan natural systems; to collect and preserve important Arctic plant germplasm resources, and to develop effective and economical utilization of byproducts from fish processing. A Ph.D. is desired. In addition to the basic requirements, candidates must demonstrate the knowledge and skill to plan, conduct and document research dealing with the control of exotic invasive pests and pathogens and skill in supervising a multi-disciplinary research team. Applicants must address and meet specific placement factors and specialized experience as defined in the official vacancy announcement #ARS-X2W-2284. The vacancy announcement and application forms can be obtained by calling 301-504-1482 or through the web at [www.ars.usda.gov](http://www.ars.usda.gov). All applications must be postmarked by May 31, 2002. For further information contact **Veronica Cullum** at 510-559-6071 (fax: 510-559-5779). **THE USDA IS AN EQUAL OPPORTUNITY PROVIDER AND EMPLOYER.**



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and Research Center, a  
biomedical facility  
affiliated with the  
University of California,  
San Francisco, has an  
immediate opening for an  
outstanding:*

### Research Scientist/ Postdoctoral Fellow

Postdoctoral Fellow and Research Scientist positions are immediately available for studying drug abuse in flies. Individuals should possess a Doctoral degree with training in molecular biology, genetics and/or neuroscience. Experience with behavioral genetics is highly desired. Salary is commensurate with experience and training. Send CV and the names of three references to:

Dr. Monica Moore  
c/o Human Resources  
5858 Horton Street, Suite 200  
Emeryville, CA 94608  
[hr@egcrc.net](mailto:hr@egcrc.net)  
(specify position in subject)  
or Fax: (510) 601-7943

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## POSITIONS OPEN

### RADIATION ONCOLOGIST

The Division of Radiation Oncology of the Medical College of Georgia (MCG) is actively recruiting for a **FULL-TIME FACULTY POSITION** in radiation oncology. This position is newly created as part of the Medical College of Georgia expansion in cancer research and clinical care. Applicants with an interest in developing a career in academic radiation oncology with a strong emphasis in basic research are encouraged to apply. Applicants should be Board eligible or Board certified in radiation oncology. Both salary and academic rank are competitive and commensurate with experience. A generous research start-up package is being offered as well.

The radiation therapy treatment facility is a free-standing building of over 25,000 square feet and houses three linear accelerators: a CT-simulator, a recently installed conventional simulator, and a three-dimensional treatment planning system.

The successful candidate should have prior research experience and will be expected to develop an extramurally funded research program. In addition to holding a faculty appointment in the School of Medicine, the successful candidate will become a member of the Institute of Molecular Medicine and Genetics at MCG in the Program for Gene Regulation, headed by **Dr. William Dynan**. Institute membership affords opportunities for scientific interaction with Investigators in the areas of radiation-induced DNA damage and repair, stress protein biology, cell signaling, immunology, and developmental neurobiology. Institute membership also allows access to Ph.D. students in Molecular Program and to students participating in the systemwide M.D./Ph.D. program. We particularly encourage research that will take advantage of core facilities for proteomics, microarray technology, cell imaging, and genetically modified animals (mouse and zebrafish).

Letters of application along with curriculum vitae should be sent to: **W. Chris Sheils, M.D., Building HK, Medical College of Georgia, Augusta, GA 30912**. The Medical College of Georgia is an Equal Opportunity/Affirmative Action Employer.

**MICROBIOLOGIST/GENETICIST:** Oberlin College Biology Department. Full-time, noncontinuing, one-year position beginning fall 2002. Teach intermediate-level genetics course, two of five laboratory sections in the core course (Cell and Molecular Biology), and upper-division microbiology. Entire description at [website: http://www.oberlin.edu/HR](http://www.oberlin.edu/HR). Requirements: Ph.D. in microbiology (in hand or expected by fall 2002), demonstrated interest, and potential excellence in undergraduate teaching. Send letter of application; curriculum vitae; and graduate transcripts to: **Dr. Yolanda P. Cruz, Professor of Biology and Chairman, Department of Biology, Oberlin College, Oberlin, OH 44074** by May 31, 2002. Late applications may be accepted until position is filled. Affirmative Action/Equal Opportunity Employer.

### RESEARCH ASSOCIATE (Ph.D. or M.S. with experience)

**Veridian Engineering, San Antonio, Texas**

A position is available immediately to study the effect of microwave exposure at the cellular level. Candidates must have a Ph.D. in the biological sciences or an M.S. with experience. Starting salary is commensurate with education and experience. U.S. citizenship is required. Send résumés to: **Veridian, Department TD, 9601 McAllister Freeway, Suite 1165, San Antonio, TX 78216**. FAX: 210-308-7498; e-mail: [kathy.hitt@veridian.com](mailto:kathy.hitt@veridian.com). Veridian is an Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS** to characterize protein machines involved in recycling of Golgi membrane proteins to endoplasmic reticulum and Golgi biogenesis (*J. Cell Biol.* 155:543). Applicants should have Ph.D. and expertise in molecular cell biology/biochemistry. Send statement of interest, curriculum vitae, and names of three references to: **Dr. Brian Storrie, Biochemistry, Virginia Tech, Blacksburg, VA 24061**. E-mail: [storrie@vt.edu](mailto:storrie@vt.edu). Virginia Tech is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN



**ATHEROGENICS, INC.**

AtheroGenics, Inc., is a biopharmaceutical company engaged in the discovery and development of products for the diagnosis and treatment of cardiovascular inflammatory diseases. We are currently seeking highly motivated individuals to join us as we expand our Pharmacology group.

**SENIOR SCIENTIST** (Job Code CS-4): experienced Pharmacologist with expertise in asthma and other chronic inflammatory diseases. Through the use of *in vivo* models of asthma, airway hyperreactivity, and COPD, you will design, execute, and analyze studies to test the efficacy of new therapeutic agents. The qualified candidate will possess a Ph.D. in pharmacology, immunology, biology, or related discipline and will have at least five to seven years of postdoctoral experience with a minimum of two years in an industry setting. Other attributes required include hands-on expertise with *in vivo* model development and a thorough understanding of the biology of asthma. Excellent communication and organizational skills, ability to work effectively in a team environment, and a proven track record of achievement are required.

**ASSOCIATE SCIENTIST/SCIENTIST** (Job Code CS-5): scientific professional with experience in asthma and other chronic inflammatory diseases. Must have a demonstrated ability to design, execute, and analyze studies to test the efficacy of new therapeutic agents. Qualified candidate will possess an M.S. or Ph.D. in pharmacology, biology, or related discipline and will have at least two years of experience in an academic or industry setting. Other requirements include hands-on expertise working with *in vivo* model development and dosing techniques, excellent communication and organizational skills, and the ability to work effectively in a team environment.

AtheroGenics offers an innovative and exciting scientific environment with competitive salaries, stock option plan, and a generous benefits package. To apply, FAX or send résumé to: **AtheroGenics, Human Resources, 8995 Westside Parkway, Alpharetta, GA 30004**. Website: <http://www.atherogenics.com>; FAX: 678-336-4359. No telephone calls, please. Equal Opportunity Employer.

### ASSISTANT PROFESSOR Gene Therapy/Molecular Biology

Assistant Professor position is available at the Musculoskeletal Disease Center of Loma Linda University and the VA Loma Linda Healthcare System. Join a large, multidisciplinary team working on basic molecular mechanisms of gene therapy for musculoskeletal diseases such as osteoporosis, arthritis, and hematopoietic diseases. The opportunity exists to closely interact with experienced Investigators in retroviral vectorology, molecular genetics, and bone biology. A strong background in molecular biology is essential as well as a strong publication record and proven ability to successfully compete for external grants. Salary and benefits are competitive plus the possibility of a long-term position. Please send your curriculum vitae, cover letter, and the names of three references to: **David J. Baylink, M.D., Musculoskeletal Disease Center, P.O. Box 7210, Loma Linda, CA 92354**. E-mail: [baylid@lom.med.va.gov](mailto:baylid@lom.med.va.gov). Equal Employment Opportunity/Affirmative Action Professional Employer.

**ASSOCIATE RESEARCH CHEMIST** (Aventis Pharmaceuticals, Bridgewater, New Jersey). In Medicinal Chemistry Department, be responsible for the preparation of potential drug candidates in a project team environment. Plant and conduct multistep organic synthesis of organic molecules in support of drug discovery effort. Requirements: B.S. or M.S. in organic chemistry. Must have strong knowledge of small heterocyclic molecules using modern spectroscopic and chromatographic techniques and organic synthesis. Thirty-seven and one-half hour week; 9 a.m. to 5 p.m. Salary commensurate with experience. Résumé to: **Box 111, 1200 New York Avenue N.W., Washington, DC 20005**.

## POSITIONS OPEN

**RESEARCH PHYSICIST:** Naval Research Laboratory, the Navy and Marine Corps corporate laboratory, is seeking a highly motivated Research Physicist to fill a permanent staff position for expanding programs in biosensor and biomaterials development. Research areas include but are not limited to bioengineering, nanofabrication/characterization, and the development of electronic nanoscale devices, materials, science and biochemical techniques, and experience in the development and analysis of novel materials containing biological components. Candidates should have experience with self-assembly and Langmuir-Blodgett techniques as well as strong microscopy and proximal probe techniques. Candidates are expected to have excellent environment. This is a NP-03 position with a salary range of \$46,040 to \$86,262 per annum based on qualifications, experience, and market consideration. Position requires a degree in physics or related degree that included 24 semester hours in physics OR combination of education and experience (courses equivalent to a major in physics totaling at least 24 semester hours plus appropriate experience or additional education). In addition, courses must have included a fundamental course in general physics and, in addition, courses in any two of the following: electricity and magnetism heat, light, mechanics, modern physics, and sound. A Ph.D. degree is highly desirable. Interested candidates should view Vacancy Announcement DM-NRL-02-0310-NR at [website: http://amp.nrl.navy.mil/code1800](http://amp.nrl.navy.mil/code1800) or call Telephone: 215-408-5264 for information. Announcement opens May 15, 2002, and closes June 14, 2002. Applications must be postmarked by closing date and mailed to: **Human Resources Service Center, Northeast, Attention: Code 52CD, Announcement Number DM-NRL-02-0310-NR/(Charlotte Cleghorn), Bourse Building, 111 South Independence Mall East, Philadelphia, PA 19106-2598**. NRL is an Equal Opportunity Employer.

**RESEARCH ASSOCIATE POSITIONS** available immediately to study cellular and molecular aspects of peptide hormone action and structure-function of membrane receptors. Strong background in molecular biology is highly desirable. Individuals having strong background in signal transduction will also be considered. Collaborative research environment and opportunities for academic growth at Tulane University School of Medicine are outstanding. Qualified candidates must have a Ph.D. and/or M.D. degree with demonstrated publication record and should send curriculum vitae and at least two references to: **Dr. K.N. Pandey, Department of Physiology SL-39, Tulane University School of Medicine, 1430 Tulane Avenue, New Orleans, LA 70112**. E-mail: [kpandey@tulane.edu](mailto:kpandey@tulane.edu). An Equal Opportunity/Affirmative Action Employer.

**RESEARCH ASSOCIATE** position available for one year to study the molecular mechanisms of mutagenesis, carcinogenesis, and cancer chemoprevention. Position requires a Ph.D. or equivalent and at least two years of postdoctoral experience in molecular biology. Salary is commensurate with experience and a comprehensive benefits package is available. Please send curriculum vitae by June 7, 2002, to: **Deborah Bachorik, Laboratory for Cancer Research, Ernest Mario School of Pharmacy, Rutgers, The State University of New Jersey, 164 Frelinghuysen Road, Piscataway, NJ 08854-8020**. FAX: 732-445-0687; e-mail: [bachorik@rci.rutgers.edu](mailto:bachorik@rci.rutgers.edu).

**RESEARCH ASSOCIATE.** Study molecular mechanisms of ischemic tolerance in the retina. Ph.D., M.D., or M.D./Ph.D. Neuroscience, physiology, or vision research background. Use biochemical, molecular, pharmacological, and electrophysiological methods. Available in summer or fall 2002. Salary competitive dependent upon qualifications. Contact: **S. Roth, M.D., Department of Anesthesia, University of Chicago, 5841 South Maryland, MC 4028, Chicago, IL 60637**. FAX: 773-834-0063; e-mail: [rot8@midway.uchicago.edu](mailto:rot8@midway.uchicago.edu). Equal Opportunity/Affirmative Action Employer.



### Help shape the future of Basic and Clinical Neuroscience at the NIH

The National Institute of Neurological Disorders and Stroke, NIH, is seeking a scientist or physician with experience in Immunology or Virology to serve as **Program Director** for the planning, evaluation, and administration of research on **HIV infection of the nervous system**. The successful candidate will join a highly interactive group of scientists and clinicians directing research programs in all areas of modern neuroscience and neurological disorders. He/she will plan and implement a cutting edge research program through active communication with the professional and lay communities as well as program staff from other institutes and agencies.

Applicants should have a Ph.D. and/or M.D. degree in a relevant field of biomedical science. This is a GS 13/14 civil service position (salary range \$66,229.00 - \$101,742.00). Physicians may be eligible for a Physician's Comparability Allowance. Permanent U.S. residents may apply for consideration under temporary appointments.

Applicants should submit by **July 1, 2002** a letter of application (refer to vacancy # **NINDS-02-0600**), a brief description of career interests, and a curriculum vitae and bibliography to: **Mr. Luis Arvelo, HRB, NINDS, NIH, Building 31, Room 8A23, 31 Center Drive, MSC 2540 Bethesda, MD 20892-2540; Tel. (301) 435-6033. FAX: (301) 480-0383; e-mail: la45j@nih.gov**. Applicants are **strongly encouraged** to obtain specific information concerning the knowledge, skills and abilities (KSAs) needed for the position by contacting **Mr. Arvelo at (301) 435-6033**. For complete information regarding the vacancy please see our Web site at: [http://careerhere.nih.gov/CHPublic/HRShowVac.taf?&VACANCY\\_uid1=11361](http://careerhere.nih.gov/CHPublic/HRShowVac.taf?&VACANCY_uid1=11361)

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### Investigator Positions Available (Tenure or Tenure Track): Stem Cell Biology/Hematopoiesis Experimental Transplantation and Immunology Branch Center for Cancer Research, National Cancer Institute

The Experimental Transplantation and Immunology Branch of the Center for Cancer Research, NCI, invites applications for a laboratory based investigator position in stem cell biology/hematopoiesis. Candidates must have an M.D. or Ph.D., a strong record of accomplishment, and the potential of establishing an internationally recognized, independent program in the molecular and/or cellular biology of stem cell function and differentiation. This program will have the goal of developing information, principles, and/or applications complementing and extending existing laboratory and clinical research efforts in the Branch.

Successful candidates will join the Experimental Transplantation and Immunology Branch that includes in its membership basic science and clinical investigators carrying out complementary studies in T cell generation, cytokine regulation of T cell responses, antigen presenting cell biology, vaccine biology, gene transfer, angiogenesis, leukemogenesis, and stem cell transplant/immune therapies. This position provides full salary support and an independent substantial budget, along with technician and fellow support.

Applicants should send curriculum vitae and statement of the candidate's proposed research program to:

**Dr. Giovanna Tosato**  
Chairman, Search Committee  
c/o Jason M. Ford  
Experimental Transplantation and Immunology Branch  
National Cancer Institute  
Building 10, Room 12N226  
10 Center Drive, Bethesda, MD 20892-1906

Applications must be received by COB July 12, 2002.

*The National Cancer Institute is an Equal Employment Opportunity and Affirmative Action employer that values and fosters diversity throughout the entire organization.*



## UNIVERSITY OF OXFORD

Division of Medical Sciences

### University Lecturerships

Further particulars for all these posts may be obtained from the addresses indicated in each case. The salary for each post will be according to age on the scale £20,470 - £34,734 p.a. or, if a College fellowship is offered, on a combined College and University scale rising from £25,012 (at age 28) up to a maximum of £41,570 p.a. Additional College allowances may be available, as set out in the further particulars. The posts are tenable to the retirement age, subject to review after five years. Applications (nine copies or one if from overseas) should be sent to the individual departments and should include a full curriculum vitae, a list of research publications (please star the five most important papers and include reprints if available), a list of research grants received and a statement of teaching and research objectives, together with the names, telephone and fax numbers, and e-mail addresses if available, of three referees (at least one should be from outside Oxford).

Department of Pharmacology  
in association with Somerville College

### University Lecturership in Systems Pharmacology

Applications are invited for a University Lecturership in Systems Pharmacology from 1st October 2002. The successful candidate will be expected to have a competitive research programme and to have carried out advanced research in the areas of the pharmacology of tissues or organ systems. In addition competence will be required to organise and carry out teaching to medical students during their pre-clinical studies in the area of Systems Pharmacology.

Further particulars may be obtained from **Professor Edith Sim, Department of Pharmacology, Mansfield Road, Oxford OX1 3QT (tel. +44 (0)1865 281123, fax: +44 (0)1865 281131, e-mail: edith.sim@pharm.ox.ac.uk)** to whom applications (see first paragraph of advertisement) should be sent no later than 6th June 2002.

Further information about the department may be obtained from the web page: <http://www.pharm.ox.ac.uk>

University Laboratory of Physiology  
in association with

- 1) St Peter's College and Oriel College, and
- 2) Lady Margaret Hall

### University Lecturerships in Physiology (2 Posts)

Applications are invited for two University Lecturerships in Physiology from 1st October 2002. The successful candidates will be expected to have competitive research programmes and particular competence to organise and carry out teaching to medical students during their pre-clinical studies in the area of (Post 1) Neurophysiology or (Post 2) Cardiovascular Physiology.

Further particulars may be obtained from **Professor Clive Ellory, University Laboratory of Physiology, Parks Road, Oxford OX1 3PT (tel. +44 (0)1865 272436, fax: +44 (0)1865 272488, e-mail: clive.ellory@physiol.ox.ac.uk)** to whom applications (see first paragraph of advertisement) should be sent to arrive no later than 6th June 2002.

Further information about the department may be obtained from the web page: <http://www.physiol.ox.ac.uk>

Sir William Dunn School of Pathology  
in association with

- 1) Magdalen College
- 2) Hertford College and Jesus College, and
- 3) The Queen's College

### University Lecturerships in Pathology (3 Posts)

Applications are invited for three University Lecturerships in Pathology from 1st October 2002. The successful candidates will be expected to demonstrate particular competence to teach pre-clinical students, and to have a strong research record in the areas of (Post 1) Molecular Microbiology; (Post 2) Cellular Pathology; and (Post 3) Cell Biology. The successful candidates should also be able to demonstrate an ability to obtain external grant funding for their research.

Further particulars may be obtained from **Professor Herman Waldmann, Sir William Dunn School of Pathology, South Parks Road, Oxford OX1 3RE (tel. +44 (0)1865 275502, fax: +44 (0)1865 275501, e-mail: herman.waldmann@path.ox.ac.uk)** to whom applications (see first paragraph of advertisement) should be sent no later than 6th June 2002.

Further information about the department may be obtained from the web page: <http://www.path.ox.ac.uk>

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## POSITIONS OPEN

### RESEARCH ASSOCIATE

To direct hour-to-hour activities of a research laboratory focused on epithelial biology of intestinal epithelia as it relates to eukaryotic-prokaryotic interactions and to interactions between inflammatory cells and epithelial cells. Direction of technicians and Postdoctoral Fellows as well as direct participation in the projects would be necessary and thus a broad background in the above fields would be optimal. The laboratory will be transferring to Chicago summer 2002 and will be adjacent to other laboratories focused on epithelial biology of the intestine. The Principal Investigator has been active in the above areas for several years, is well funded via NIH, and will serve as Dean of the School of Medicine and Biological Sciences Division. Please send curriculum vitae with cover letter and direct two letters of reference to:

**James L. Madara, M.D.**  
Dean, Division of the Biological Sciences and  
the Pritzker School of Medicine  
Vice President for Medical Affairs  
The University of Chicago  
5841 South Maryland Avenue, MC 1000  
Chicago, IL 60637

Applications should be received by July 1, 2002.  
The University of Chicago is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

### RESEARCH MOLECULAR BIOLOGIST/ PLANT PHYSIOLOGIST/ PLANT GENETICIST

The United States Department of Agriculture, Agricultural Research Service, is seeking a Scientist for a permanent position at the Western Regional Research Center in Albany, California. The Scientist will develop strategies and tools to minimize negative impacts of transgene insertion and expression on nontarget metabolic processes of plants. Tools to be developed include gene promoters with novel expression patterns and transformation vectors containing sequences for site-specific recombination. Molecular biology experience in gene expression is essential. Yearly salaries are commensurate with relevant experience, starting at \$59,471 (GS-12); \$70,720 (GS-13); or \$108,642 (GS-14) plus benefits. *Candidates must be U.S. citizens.* For more detailed information on the research, contact: **Dr. Ann Blechl**; Telephone: 510-559-5716; e-mail: [ablechl@pw.usda.gov](mailto:ablechl@pw.usda.gov). To apply, contact: the Center's Personnel Department; Telephone: 510-559-6090; website: <http://www.ars.usda.gov>. Select Careers in ARS, then Research Scientist, and find announcement Number ARS-X2W-2297. Applications must be postmarked before June 18, 2002. The USDA is an Equal Opportunity Provider and Employer.

### RESEARCH ASSOCIATE/ LABORATORY MANAGER

Research Associate is sought to join a pulmonary biology group using gene transfer to study mechanisms of acute lung diseases at Evanston Northwestern Healthcare in the Chicago metropolitan area. Applicants should have a B.S. or M.S.; strong English language skills; and more than three years of professional experience with cell culture, Western analysis, and DNA cloning. In addition to molecular biologic experiments, the recruited individual will be responsible for laboratory management. Interested individuals should forward their curriculum vitae to: **Dr. Phillip Factor**; e-mail: [pfactor@northwestern.edu](mailto:pfactor@northwestern.edu).

**RESEARCH ASSOCIATE/ASSISTANT PROFESSOR.** Genetic and environmental modulation of intestinal cell differentiation and transformation utilizing novel cell systems, development of mouse genetic models and molecular analysis of specific loci, cellular analysis of maturation pathways, gene profiling, and novel methods of transcriptional imaging. Contact: **Leonard Augenlicht, Professor and Associate Director, Albert Einstein Cancer Center, Department of Oncology, Montefiore Medical Center, 111 East 210th Street, Bronx, NY 10467.** E-mail: [augen@aecom.yu.edu](mailto:augen@aecom.yu.edu).

## POSITIONS OPEN

### STAFF ASSOCIATE

Department of Neurological Surgery  
Columbia University

Research position involving the coordination of clinical studies in spine surgery. The successful applicant will have an M.P.H. with a minimum of four years of experience. The Staff Associate will prepare protocols, coordinate patient data collection, maintain databases, prepare/monitor study budgets, compile reports, and write grant applications. Required: strong word processing and database skills, experience in outcome and/or cost analysis, biostatistics. Familiarity with study design and epidemiology strongly preferred. Send résumé to:

**Susan E. McMahon**  
Department of Neurological Surgery  
Columbia University  
710 West 168th Street, Room 431  
New York, NY 10032  
E-mail: [sem1@columbia.edu](mailto:sem1@columbia.edu)

Columbia University takes Affirmative Action to ensure Equal Opportunity.

### POSTDOCTORAL OR RESEARCH ASSOCIATE POSITIONS Molecular Biology

Unique research and training opportunities to create and characterize transgenic and gene-targeted mouse models of neurodegenerative disease in the multidisciplinary setting of the Center for Dementia Research of Nathan Kline Institute, an affiliate of New York University School of Medicine (website: <http://cdr.rfmh.org>). Positions available in two areas: biology of protease and vesicular trafficking related to neuronal vulnerability in Alzheimer's disease and molecular motors regulating the neuronal cytoskeleton. Strong background in molecular and/or cell biology required. Send résumé and statement of interests to: **Ralph Nixon, M.D., Ph.D., CDR, Nathan Kline Institute, 140 Old Orangeburg Road, Orangeburg, NY 10962.** FAX: 845-398-5422; e-mail: [cdinfo@nki.rfmh.org](mailto:cdinfo@nki.rfmh.org).

**POSTDOCTORAL POSITIONS** in biophysical chemistry. This work investigates effects of osmolytes on protein structure/function, performed within the highly interactive environment of the Sealy Center for Structural Biology. Candidates must have a strong background in biophysics/chemistry with proficiency in two or more areas involving protein folding, calorimetry, solution thermodynamics, stopped-flow kinetics, use of radioisotopes, protein expression/purification, computational modeling, and peptide synthesis. Send curriculum vitae and the names and contact information of three references to: **Dr. D.W. Bolen, Department of HBCG, University of Texas Medical Branch, 5.154 MRB, Galveston, TX 77555-1052.** Telephone: 409-772-0754; FAX: 409-747-4751; e-mail: [wbohen@hbcg.utmb.edu](mailto:wbohen@hbcg.utmb.edu). UTMB is an Equal Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans Employer. Minorities and females are encouraged to apply.

**A POSTDOCTORAL POSITION** is available immediately for studying the molecular mechanisms of axonal degeneration. The project will focus on a chimeric gene involved in ubiquitination and NAD<sup>+</sup> synthesis pathways that promotes axonal survival (see *Nature Neuroscience* 4:1199-1206, 2001). A strong background in molecular biology required; experience with yeast two-hybrid assays and expression microarrays helpful. Send curriculum vitae and references to: **Dr. George Wilmot, Department of Neurology, P.O. Drawer V, Emory University, Atlanta, GA 30322.** E-mail: [gwilmot@emory.edu](mailto:gwilmot@emory.edu). Equal Opportunity Employer.

### CARDIOVASCULAR PATHOPHYSIOLOGY For Engineers and Scientists

One-week intensive course sponsored by Massachusetts Institute of Technology, Cambridge, Massachusetts; July 8-12, 2002. Dr. Richard D. Cohen, Program Director. Basic principles of cardiovascular physiology, cardiovascular medicine, diagnostic and therapeutic technologies. MIT Summer Session; Telephone: 617-253-2101; Website: [web.mit.edu/professional/summer](http://web.mit.edu/professional/summer).

## POSITIONS OPEN

### RESEARCH GENETICIST (PLANTS)

GS-0440-11/12

Description of duties: **POSTDOCTORAL RESEARCH ASSOCIATE** position located in Miami, Florida, at the Subtropical Horticulture Research Station. Researcher will be responsible for genetic mapping and general study of inheritance of disease resistance and agronomic traits. Will require working with international teams in field experimentation, performing data analysis of molecular marker and microarray analyses. Position will encompass other extensive statistical analyses involving programming and simulation, mostly in SAS, and in other analysis software and computer programming languages. Qualification requirements: Recent Ph.D. in plant genetics, biostatistics, or related field. Familiarity with the UNIX operating systems, microarray analysis, SAS (including macros and IML) as well as association genetic techniques is highly desirable. For information on special requirements, salary, benefits, citizenship restrictions, or to obtain application forms, contact: **C. Wilson**; Telephone: 305-254-3613; e-mail: [cwilson@saa.ars.usda.gov](mailto:cwilson@saa.ars.usda.gov). For specific information on the duties and responsibilities of this position or to submit curriculum vitae, contact: **Dr. Steven Brown, USDA-ARS, SHRS, 13601 Old Cutler Road, Miami, FL 33158.** Telephone: 305-969-6412; FAX: 305-969-6410; e-mail: [miajb@ars-grin.gov](mailto:miajb@ars-grin.gov). USDA prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital/family status.

### POSTDOCTORAL POSITION

Thomas Jefferson University, Philadelphia, Pennsylvania, is seeking to fill a Postdoctoral position focusing on the generation of transgenic mice and execution of biochemical, cell biological, and molecular biological experiments and use of tissue culture. Will also be responsible for the design and planning of experiments, the interpretation of data, and the presentation of results to the scientific community as well as authoring abstracts and/or poster presentations detailing ongoing research for submission to relevant scientific societies. Please send curriculum vitae and names and addresses of three references to: **Dr. John Klement, Assistant Professor, Department of Dermatology and Cutaneous Biology, Thomas Jefferson University, 233 South 10th Street, Suite 322, Philadelphia, PA 19107.** E-mail: [johnklement@mail.tju.edu](mailto:johnklement@mail.tju.edu); Telephone: 215-503-4488; FAX: 215-503-5788. Equal Opportunity Employer.

Bowling Green, Ohio. Two **POSTDOCTORAL POSITIONS** are available to study the neural basis of animal navigation. The methodology involves the use of single cell recording techniques in behaving rats. Previous experience with physiological techniques is not necessary. The positions are open as of now, but a later start date can also be arranged. Starting salary is \$40,000. The work will take place within the Department of Psychology at Bowling Green State University. The academic environment provides an active, well-funded neuroscience community with a strong emphasis on systems-level neuroscience as well as neuroethology and cognition. Please send curriculum vitae, a letter of application, and at least three reference letters to apply. Send materials to: **Pat Sharp, Department of Psychology, Bowling Green State University, Bowling Green, OH 43403.**

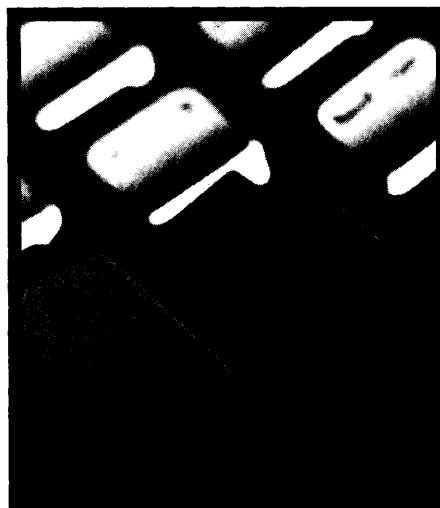
Bowling Green State University is an Equal Opportunity Employer.

Several **POSTDOCTORAL POSITIONS** will be available in the near future for studies of the efficacy and modes of actions of dietary cancer modulators. Applicants should have a Ph.D. with experience in one of several areas including drug/hormone metabolism, tumor metastasis, genomics, and cellular signal transduction. Experience with the associated methods of metabolite analysis, rodent tumor models, microarray analysis, and/or molecular biology is desirable. Send curriculum vitae including *visa status* and names of two references to: **Dr. Leonard Bjeldanes, Department of Nutritional Sciences and Toxicology, University of California, Berkeley, CA 94720-3104.** FAX: 510-642-0535. Closing date: until positions filled.

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**Europe** Deborah C. Harris  
Phone ..... +44(0) 1223 326 500  
Fax ..... +44(0) 1223 326 532  
E-mail ..... dharris@science-int.co.uk

## POSITIONS OPEN



### POSTDOCTORAL RESEARCHER Laboratory Medicine and Pathology Rochester, Minnesota, U.S.A.

Postdoctoral Researcher with considerable molecular biology experience to characterize candidate tumor suppressor genes derived from highly unstable common fragile site regions in the genome. Ph.D. required and research experience with molecular biology techniques or cytogenetics. Highly motivated individual capable of working independently. Salary will be determined by the successful candidate's experience. There is an attractive benefit package. Mayo Clinic is a not-for-profit organization. Mayo integrates research with clinical practice and education in a multicampus environment. For further information, please visit [website: http://www.mayo.edu/research/](http://www.mayo.edu/research/).

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

**Dr. David I. Smith**  
Professor, Division of Experimental Pathology  
Hilton 800  
200 First Street, S.W.  
Rochester, MN 55905  
Telephone: 507-266-0309  
FAX: 507-266-5193  
E-mail: [smith.david@mayo.edu](mailto:smith.david@mayo.edu)

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### POSTDOCTORAL POSITIONS Harvard Medical School

Postdoctoral positions available to investigate the molecular mechanism by which presenilins and Notch receptors regulate early neural development using conditional knockouts and transgenic mice. Highly motivated Ph.D.s with rigorous training in developmental neurobiology, molecular genetics, and/or biochemistry are encouraged to apply. Send curriculum vitae to e-mail: [jshen@rics.bwh.harvard.edu](mailto:jshen@rics.bwh.harvard.edu). For more information, please visit [website: http://www.shenlab.net](http://www.shenlab.net).

**POSTDOCTORAL POSITIONS** in molecular pathogenesis of Epstein-Barr (Drs. Kieff, Wang) or Kaposi's sarcoma herpesvirus (Drs. Desrosiers, Jung, Kaye) infections and oncogenesis at Harvard Medical School. Candidates should have a strong background in biochemistry, genetics, cell biology, virology, or immunology. Submit curriculum vitae and three letters of reference by mail to: **Harvard Viral Oncology Program, c/o Elliott Kieff, 181 Longwood Avenue, Boston, MA 02115.** E-mail: [elliott\\_kieff@med.harvard.edu](mailto:elliott_kieff@med.harvard.edu).

A **POSTDOCTORAL POSITION** in cellular neurophysiology is available at the New Jersey Neuroscience Institute to study glutamatergic mechanisms and intrinsic membrane excitability in a mouse model of neurodegeneration. Methods include patch clamp recording from neocortical brain slices and analysis of single cell gene expression. Applicants should apply by e-mail to: **Ronald B. Langdon, Ph.D.; e-mail: [langdoro@shu.edu](mailto:langdoro@shu.edu).** Further details are provided at [website: http://www.njneuro.org/research.htm](http://www.njneuro.org/research.htm).

**GENETICS EDUCATION.** The University of Utah Genetic Science Learning Center seeks a **POSTDOCTORAL FELLOW** for Web-based curriculum development and teacher programs. For details, see [website: http://gslc.genetics.utah.edu/job/](http://gslc.genetics.utah.edu/job/). Send application to: **Jennifer Logan, University of Utah, 15 North 2030 East, Salt Lake City, UT 84112.** E-mail: [jlogan@genetics.utah.edu](mailto:jlogan@genetics.utah.edu). The University of Utah is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

## POSITIONS OPEN



### University of Connecticut Health Center

A **POSTDOCTORAL FELLOWSHIP** position is available to study novel purinergic receptor signaling pathways. Cloning, transfection, antisense, and transgenic approaches will be used. Applicants must have a Ph.D. and/or M.D. Send curriculum vitae to: **Dr. Bruce Liang, Cardiology Chief; e-mail: [bliang@uchc.edu](mailto:bliang@uchc.edu).** UCHC is an Equal Opportunity Employer Minorities/Females/Veterans/Persons With Disabilities.

### POSTDOCTORAL POSITION

#### Department of Pathology and Laboratory Medicine

#### Emory University School of Medicine

A Postdoctoral position is available immediately to study the pathogenesis of epithelia-derived cancer (carcinoma) using both human and nonhuman experimental models. One body of work will focus on molecular mechanisms involving a family of novel nuclear receptor (PPAR $\gamma$ ) gene fusions (fusion oncogenes) identified in thyroid cancer (*Science* 289:1357-1360, 2000). Another body of work will focus on novel molecular genetic alterations in carcinomas. Interested applicants must have a Ph.D. and/or M.D. degrees and a background in molecular biology, molecular genetics and/or cell biology/biochemistry, and strong communication skills. Experience in experimental molecular oncology would be useful. Please send curriculum vitae and the names and addresses of three references to:

**Todd G. Kroll, M.D., Ph.D.**  
146 Whitehead Building  
615 Michael Street  
Atlanta, GA 30322

### POSTDOCTORAL FELLOWS

#### The Johns Hopkins University

#### Department of Pathology

#### Division of Gynecologic Pathology

Seeking candidates who are interested in work related to gynecologic cancers (ovarian, endometrial, cervical, and trophoblastic cancers) in the laboratories of Dr. T.-C. Wu, Dr. R.B.S. Roden, or Dr. I.-M. Shih. Areas of research include molecular genetics and diagnostics of ovarian cancer; gene expression (SAGE, microarray analysis, and proteomics); HPV preventive and therapeutic vaccines; cancer vaccines; HPV biology; and virology. Candidates with M.D., Ph.D., or M.D./Ph.D. degrees are eligible to apply. For more information and applications, please contact:

**Robert J. Kurman, M.D., Director**  
Division of Gynecologic Pathology  
Ross Research Building, Room 512  
720 Rutland Avenue  
Baltimore, MD 21205  
Telephone: 410-614-2905  
FAX: 443-287-4295  
E-mail: [sevignyd@jhmi.edu](mailto:sevignyd@jhmi.edu)

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### POSTDOCTORAL POSITION

Opening for a Protein Chemist/Biochemist with experience in microanalytical protein separation techniques (HPLC and CE). Applicant must have skills and experience in the field of protein isolation and characterization. The project comprises structure and function studies of proteins specifically interacting with mineralized substrates. The characterization of such protein structures at the molecular level is important for the understanding of both de- and remineralization mechanisms and gaining knowledge on the early events in the generation of biofilms. Interested candidates with a recent Ph.D. degree (or equivalent) are invited to send curriculum vitae to: **Ms. Leslie Baker, Boston University Medical Campus, Room G-217, Boston, MA 02118.** E-mail: [lesbaker@bu.edu](mailto:lesbaker@bu.edu).

## POSITIONS OPEN



**POSTDOCTORAL POSITIONS** available immediately: (1) Molecular/Cancer Biologist to study the role of RNase L (HPC1) in suppressing prostate cancer (Carpten, J. et al., *Nat. Genet.* 30:181, 2002). (2) Virologist to study gene expressing in virus-infected cells and mice (Der, S.D. et al., *PNAS* 95:15623, 1998). Ph.D. and peer-reviewed publications required. Send curriculum vitae and three letters of reference to: **Robert H. Silverman, Ph.D., Lerner Research Institute, Cleveland Clinic Foundation, Department of Cancer Biology NB40, 9500 Euclid Avenue, Cleveland, OH 44195 U.S.A.** E-mail: [silverr@ccf.org](mailto:silverr@ccf.org); [website: http://www.lerner.ccf.org/cancerbio/silverman/](http://www.lerner.ccf.org/cancerbio/silverman/).

### FACULTY AND POSTDOCTORAL POSITIONS Neurobiology of Olfaction

Research track faculty and Postdoctoral positions available immediately to investigate cellular and network principles of coding in the mammalian olfactory bulb. Projects use the following techniques: *in vitro* slices, patch clamping, and/or optical imaging of Ca<sup>2+</sup>/voltage-sensitive dyes; whole animal, electrophysiology, and optical imaging of neural activity. Applicants must have a Ph.D. or M.D. Positions offer highly competitive salary/fringe benefits and interaction with other Neuroscientists in the Department ([website: http://neurobiology.umaryland.edu](http://neurobiology.umaryland.edu)) and the Program in Neuroscience ([website: http://neuroscience.umaryland.edu/](http://neuroscience.umaryland.edu/)). Send curriculum vitae and names of three references to: **Dr. Michael T. Shipley, Department of Anatomy and Neurobiology, University of Maryland School of Medicine, 685 West Baltimore Street, Baltimore, MD 21201.** E-mail: [mshipley@umaryland.edu](mailto:mshipley@umaryland.edu). University of Maryland is an Affirmative Action/Equal Employment Opportunity/Americans With Disabilities Act Employer.

### YALE UNIVERSITY SCHOOL OF MEDICINE

Applicants are invited to apply for **POSTDOCTORAL POSITIONS** in developmental neurobiology. Projects: (1) structure/function of brain-enriched PTPs (*Neuron* 34:127-138; *J. Neuroscience* 20:5630-5638) and (2) animal model of TS and OCD (*Amer. J. Psychiatry* 159:657-660; *Biological Psychiatry* 50:566-577). Immunocytochemical expertise required. Must be American citizen or resident for funding. Send curriculum vitae and three references to: **Dr. Paul Lombroso, SHM I-270, 230 South Frontage Road, Yale University, New Haven, CT 06520.** E-mail: [paul.lombroso@yale.edu](mailto:paul.lombroso@yale.edu).

**POSTDOCTORAL POSITIONS** available at the Dana-Farber Cancer Institute, Boston, Massachusetts, to study the mechanism by which the ATM protein kinase regulates the DNA damage response. Projects include (1) examining the mechanism by which ATM detects DNA damage, (2) identifying proteins phosphorylated by ATM, and (3) characterizing proteins which interact with and regulate ATM function. Experience in either molecular biology, cell biology, DNA repair, or mass spectrometry required. Applications to: **Dr. B.D. Price; e-mail: [brendan\\_price@dfci.harvard.edu](mailto:brendan_price@dfci.harvard.edu).** Equal Opportunity Employer.

**POSTDOCTORAL FELLOW/RESEARCH SCIENTIST** in the Department of Molecular and Cellular Physiology. Study the subcellular organization of excitation-contraction coupling in smooth muscle, developing transgenic mice models and using state-of-the-art biophysical measurements of contractility, intracellular ions, and metabolism. Contact: **Richard J. Paul, Ph.D., University of Cincinnati College of Medicine, 231 Albert Sabin Way, Cincinnati, OH 45267-0576.** E-mail: [richard.paul@uc.edu](mailto:richard.paul@uc.edu). The University of Cincinnati is an Equal Opportunity Employer.



## Max-Planck-Institut für Metallforschung

Max Planck Institute for Metals Research



Max-Planck-Gesellschaft

### Research Positions in Bio-Engineering Center

The bio-engineering center of Max Planck Institute for Metals research has immediate openings for Ph.D. candidates and postdoctoral research fellows to conduct multidisciplinary research in biochip, tissue engineering, protein engineering and nano-biomaterials. These are full time research positions for individuals with 2, 3 or 5 years of postdoctoral research training, and are open to those candidates who have M.S., Ph.D. and/or M.D. degree with training in molecular biology, cell biology, bioengineering, biochip or related disciplines. The successful candidates will interact within a multidisciplinary group of biologists, material scientists, and specialists of nano-materials and bio-materials. The research topics include application of nano-biomaterials on biochip, biological reactor, cell signal transduction, protein construction and function, materials science of biological surfaces, biochip, high throughput screening, and plant-drug mechanisms.

Additional information can be obtained by contacting Prof Huajian Gao, Director, [gao-positions@mf.mpg.de](mailto:gao-positions@mf.mpg.de) <http://shasta.mpi-stuttgart.mpg.de> (Bio-nano engineering center).

The Max Planck Society is an equal opportunity employer. Women are especially encouraged to apply.

Ph.D. candidate applicants should submit an application including CV and recommended letter, interested postdoctoral applicants should submit a written application outlining experience and research goals, CV, and 3 references to

#### Max-Planck-Institut für Metallforschung

Geschäftsstelle

Heisenbergstr 1, D-70569 Stuttgart, Germany



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### European Careers: STOCKHOLM-UPPSALA

SCIENCE, in collaboration with Uppsala University Industrial Liaison Office and the Centre for Medical Innovations at Karolinska Institutet,

will publish a European Careers report focusing on the Stockholm-Uppsala region of Sweden in the issue of

**27 September 2002**

**Booking deadline: 10 September**

For recruitment/profile advertisements, please contact Tracy Holmes:

Tel ..... +44 (0) 1223 326 525

Fax ..... +44 (0) 1223 326 532

E-mail ..... [tholmes@science-int.co.uk](mailto:tholmes@science-int.co.uk)

**Science @**  
CAREERS  
[www.sciencecareers.org](http://www.sciencecareers.org)



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

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

NCI-02-3122\_\_

GS-601/602-13/14

Opening Date: May 10, 2002 Closing Date: June 7, 2002

The National Cancer Institute is seeking qualified applicants to serve as Program Director of Specialized Programs of Research Excellence (SPORES) in the Organ Systems Branch (OSB). The OSB manages an extramural multidisciplinary 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 \$63,211 to \$97,108 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. Please refer to NCI Recruiting Bulletin for specific qualification requirements.

**APPLICATION PROCEDURES:** The NCI Recruiting Bulletin for this position contains complete application procedures and lists all mandatory information, which you must submit in your application. To obtain the Recruiting Bulletin, call 1-800-728-JOBS (for local calls, 301-594-2953). When prompted, enter the "Fax ID Number" 1936. You will be prompted for your fax machine number. Or you may obtain the Recruiting Bulletin on-line by going to the following address: **website:** <http://www.usajobs.opm.gov>. 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, MD 20852-7211

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## The European Commission

The European Commission is currently seeking candidates (m/f) for the post of:

### EXECUTIVE DIRECTOR

#### of the European Food Safety Authority (Republication)

The Authority has been established to provide scientific advice and support for Community legislation and policies having a direct or indirect impact on food and feed safety as well as closely associated questions.

**Principal tasks:** • Develop and achieve the Authority's strategic objectives. • Day-to-day management of the staff, recruitment and budget. • Communicate directly and indirectly to the public. • Preparation and implementation of multi-annual and annual work programmes. • Facilitate co-operation with the Commission and Member States. • Establish effective contacts with the European Parliament and other interested parties.

**Qualifications and experience required:** • A university degree or equivalent giving entitlement to undertake postgraduate studies. • At least 15 years of professional experience (following the award of the University Degree or equivalent) preferably in a field relevant to the mission of the Authority, at least 5 years of which must have been at senior management level. • A good understanding of the EU institutions and policies in the field of food and feed safety, related international activities and other policies relevant to the activities of the Authority. • Proven capacity to lead an organization, at strategic and internal management levels. • Capacity to communicate to the public and build good working relationships with all stakeholders. • A thorough knowledge of one of the languages of the EU and a satisfactory knowledge of one other of these languages. • Candidates must be nationals of a European Union Member State and must have been born after 01.06.1942.

**Appointment and Conditions of Employment:** The Executive Director will be appointed by the Management Board on the basis of a list drawn up by the Commission based on this and the preceding vacancy notice. The appointment will be as a member of the temporary staff, pursuant to Article 2 of the CEOS, for a 5-year renewable term at A2 level.

The final seat of the EFSA has not been decided. Temporarily the EFSA is based in Brussels, Belgium.

The original of this vacancy notice including an application form, how to apply and full details on the conditions is published in the Official Journal of the European Communities (C 108 A, 04 May 2002) available at web-site <http://europa.eu.int/eur-lex> or from either of the following web-sites which also give additional information: <http://www.efsa.eu.int> and [http://europa.eu.int/comm/food/fs/efsa/index\\_en.html](http://europa.eu.int/comm/food/fs/efsa/index_en.html). The vacancy notice may also be obtained by e-mail from [SANCO-EFSA-ED@cec.eu.int](mailto:SANCO-EFSA-ED@cec.eu.int)

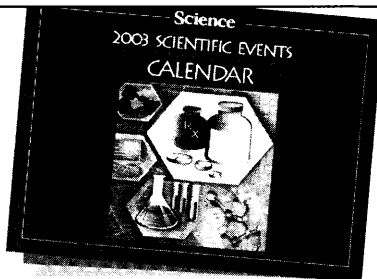


<http://europa.eu.int>

**The closing date for this call is 07.06.2002.**

The Commission reserves the right to prolong this vacancy notice by a publication in the OJCE only.

## Will your event be listed in Science's 2003 Events Calendar?



**The 2003 Scientific Events Calendar** will be published in our 13 December 2002 issue. Deadline for submissions is 8 November 2002. This calendar reaches nearly 800,000<sup>1</sup> *Science* readers who could be potential delegates, exhibitors, and sponsors for your event.

**Go to [www.sciencemeetings.org](http://www.sciencemeetings.org)** to submit a free listing or call your *Science* sales representative for more information on multiple listings and advertising in this year-round resource.

<sup>1</sup> Science Harvey Research Readership surveys: 14 January 2000, 4 February 2000, 4 June 1999 (Japan) as applied to *Science* December 2001 BPA Publisher's Statement, publisher's own data. Calendar being published by Science Business Office.

#### For full details contact:

In the U.S.	Kathleen Clark	In Europe	Richard Walters
phone .....	202-326-6555	phone .....	+44 (0) 1223 326 500
fax .....	202-289-6742	fax .....	+44 (0) 1223 326 532
e-mail .....	<a href="mailto:kclark@aaas.org">kclark@aaas.org</a>	e-mail .....	<a href="mailto:rwalters@science-int.co.uk">rwalters@science-int.co.uk</a>

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Myriad Genetics is a biopharmaceutical company specializing in the use of proteomic and genomic technologies to create breakthrough diagnostic and therapeutic products. A major area of focus for the company is the prediction (profiling of genetic risk) and treatment of cancer. In addition, Myriad Genetics has discovery programs in the fields of dementia, depression, diabetes, and heart disease. We currently have a position open for a protein biochemist, specializing in the field of oncology.

### Protein Biochemist – Oncology

We seek an individual with a strong biochemistry background to build a protein science group within our oncology program. The protein science group will work closely with scientists in the human genetics, functional genomics and pharmaceutical discovery groups to identify novel therapeutic targets for the treatment of cancer. Qualified applicants will have a Ph.D. and at least 2-5 years of post-doctoral training. The successful candidate will have a track record of research in cancer biology. Experience in protein mass spectrometry and SPR is a plus.

**Applicants should send 1) a cover letter and 2) a complete CV (including a concise research summary section and a technical skills section) to:**

Myriad Genetics, Inc., Attn: Human Resources,  
320 Wakara Way, Salt Lake City, Utah 84108-1214  
Fax: (801) 584-1144; E-mail:  
[humanres@myriad.com](mailto:humanres@myriad.com)

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MYRIAD

## CALL FOR PROPOSALS

*In 2003 the Autonomous Province of Trento (Italy) will finance research proposals over a period of three years, aimed at the realisation and consolidation of research centres in Trento. Proposals may be presented by competent bodies of the Autonomous Province of Trento as well as by national and international research institutions, excluding corporate laboratories.*

*Preliminary proposals, drawn up in English and translated into Italian, presented following the specific format and under the headings foreseen, will be selected and subjected to initial critical assessment by the Committee for Research Policy and Evaluation and must be sent to the following address by 28 June 2002:*

*Provincia Autonoma di Trento, Servizio Università e Ricerca scientifica, piazza Dante, 15, 38100 Trento (Italy).*

For information:

tel.: 0039-0461/492635

e-mail: [giuliana.donini@provincia.tn.it](mailto:giuliana.donini@provincia.tn.it)

Internet site:

[www.trentinocultura.net/fondoricerca.asp](http://www.trentinocultura.net/fondoricerca.asp)

## REQUEST FOR APPLICATIONS AVAILABLE

**Philip Morris Incorporated** announces the availability of its 2002 Request for Applications booklet for the **Philip Morris External Research Program**. The broad range of research interests includes the following scientific areas: **Exposure/Biomarkers/Dosimetry, Epidemiological Research, Clinical and Model Systems Research, and Tobacco Smoke and Smoking Behavior**. Applications must be received by August 31, 2002.

For more information or a copy of the 2002 Request for Applications booklet, please call or write Research Management Group, coordinator for the Philip Morris External Research Program.

**Research Management Group**  
**Attn: Research Manager**  
**1099 Winterson Road, Suite 280**  
**Linthicum Heights, Maryland 21090-2216 USA**  
**Telephone: (410) 684-3782**  
**Fax: (410) 684-3729**  
**Email: [rmgroup2000@aol.com](mailto:rmgroup2000@aol.com)**

## GRANTS

# Invitrogen's Research Tools Development Grants Program

## Creating the future of biotech – together

New and established investigators working in academics, not-for-profit institutions, and for-profit companies are encouraged to apply for Invitrogen's Research Tools Development Grants Program. Grants are provided on a quarterly basis, with total funding of US\$5 million per year and annual awards up to US\$100,000.

The second quarter 2002 focus is on **Functional Analysis**, understanding how genes and their corresponding proteins function and interact *in vitro* and *in vivo*. Deadline for full Grant Proposals is June 1. A preproposal is required. Visit [www.invitrogen.com](http://www.invitrogen.com) for more information, or contact us at [grants@invitrogen.com](mailto:grants@invitrogen.com).

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P: 760 476 6140 F: 760 602 6563  
[www.invitrogen.com](http://www.invitrogen.com)



## Call for Proposals BMBF Competition "Nanotechnology"

The Federal Ministry of Education and Research (BMBF) intends to give **young scientists** from Germany and abroad who are **experienced in heading a research group** the opportunity to work on new, basic research-oriented approaches in the nanosciences in Germany, independently and in their own team in order to

- generally improve career prospects in industry or science in Germany or
- encourage self-employment in the private sector (setting up businesses or spin-out companies).

**The teams (staff: 1 group leader, 1-2 postdocs, 1-2 doctoral students, 1-2 technicians; investments and expendable materials: depending on the technical support required in each case) are to work for a period of 5 years on topics covering the technological use of physical, i.e., mechanical, electronic and optical phenomena characteristic of the nanometer scale (not mainstream developments aimed at merely reducing the size of today's microstructures, incl. microelectronics and those phenomena which can be achieved with individual molecules).**

Non-repayable grants will be awarded to the projects selected by a jury.

**Deadlines: 15 June 2002 (first call) and 15 October 2002 (second call).**

### Further information:

Dr G. Schumacher, PTJ-FZJ, D-52425 Juelich  
tel +49(0)2461 61-3545; e-mail: [G.Schumacher@fz-juelich.de](mailto:G.Schumacher@fz-juelich.de)

**FACULTY POSITIONS  
DEPARTMENT OF BIOCHEMISTRY  
UNIVERSITY OF IOWA  
ROY J. AND LUCILLE A. CARVER  
COLLEGE OF MEDICINE**

The Department of Biochemistry at the University of Iowa seeks highly qualified applicants for one or more tenure-track positions. The appointments will likely be made at the Assistant Professor level, although exceptional candidates at any rank will be considered. Salaries are competitive and will depend on qualifications and experience. Support for equipping laboratories and initiating research programs is excellent. Applicants with research interests in the broad discipline of biochemistry including molecular biophysics and cellular, developmental, or molecular biology will be considered. Quality of research, not a specific research area, will be the primary criterion.

Applicants must have a relevant graduate degree (Ph.D. and/or M.D. or equivalent foreign degree), and should have at least two years of productive postdoctoral experience and the potential to initiate and maintain a vigorous, independent research program. The new faculty will also participate in the departmental teaching programs including the training of undergraduate and graduate students, professional students, and postdoctoral fellows. Additional information about the Department, the University, and the Iowa City area may be found at **websites:** <http://www.biochem.uiowa.edu/>, <http://www.uiowa.edu/>, <http://www.icgov.org>.

Applications should include complete curriculum vitae and a summary of future research plans and should ask three scientists familiar with their work to write letters of reference. For full consideration the complete application should be received by July 1, 2002. Applications should be sent to: **John E. Donelson, Chair, Department of Biochemistry, Roy J. and Lucille A. Carver College of Medicine, University of Iowa, Iowa City, IA 52242-1109; phone 319-335-7934; fax 319-335-9570.**

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# nature

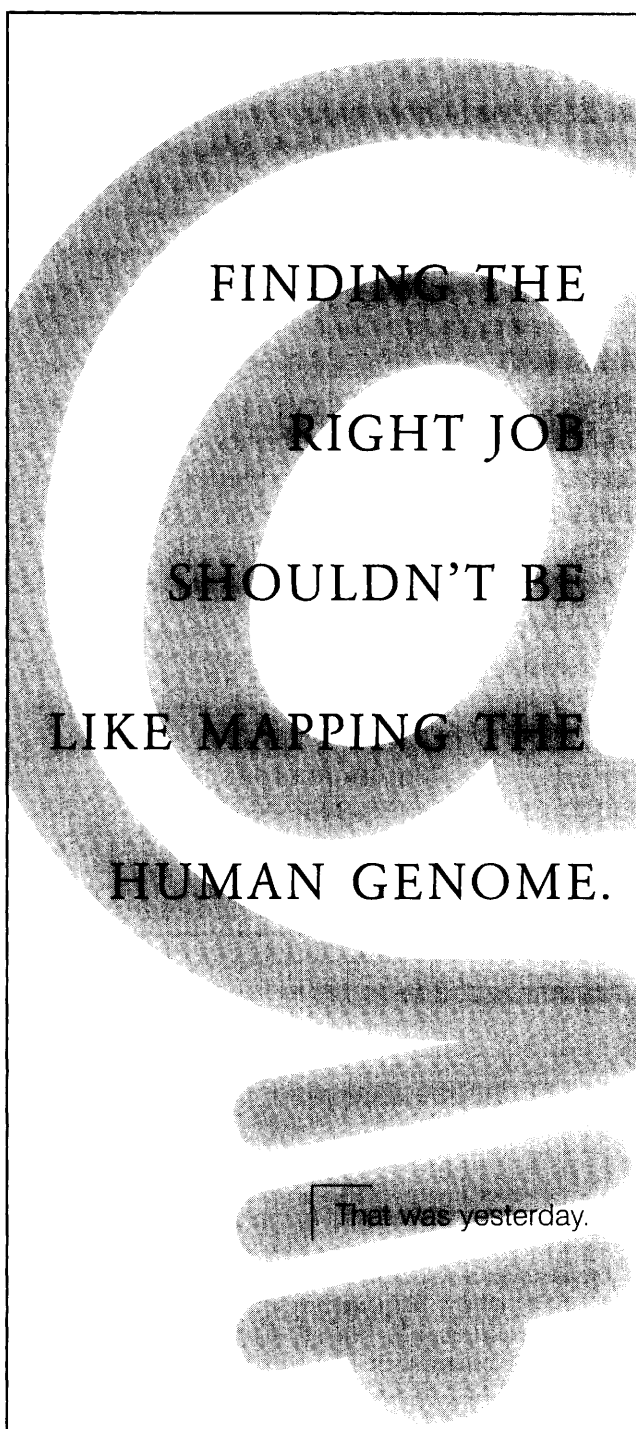
seeks a **BIOLOGY EDITOR**

*Nature* the international weekly journal of science seeks to appoint a Biology Editor to join a team dedicated to publishing the world's best original research in the biological sciences. The successful candidate will play a key role in determining how biological sciences are represented—through the selection and preparation of manuscripts for publication and by acting as *Nature's* interface with the relevant research communities. This is a demanding and intellectually stimulating position, and calls for a keen interest in the practice and communication of science.

The ideal candidate will have a strong track record of research in molecular biology, in particular in the areas of gene expression (including transcription and DNA replication/translation), but highly qualified candidates from other areas of the biological sciences are also encouraged to apply. Applicants should hold or expect shortly to receive a PhD or equivalent degree.

This position will be based in *Nature's* San Francisco offices. The job will involve extensive travel to meetings and laboratories, both in the US and internationally.

Applicants should send a CV (including their class of degree and a brief account of their research and other relevant experience), a concise discussion of which recent scientific developments they have found particularly exciting (stating why) and a brief covering letter. Mark the application "Biology editor", and send it to Human Resources, Nature Publishing Group, 345 Park Avenue South, 10th Floor, New York, NY 10010; email: [admin@natureny.com](mailto:admin@natureny.com); fax: 212-696-9594 as soon as possible and **no later than Friday June 7th**. Please find more information at <http://npg.nature.com>. EOE



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## POSITIONS OPEN

Wanted: experienced **POSTDOCTORAL FELLOW** for protein sequencing and intracellular signaling of novel TCR $\beta$  heterodimer associated with allogeneic bone marrow engraftment and tolerance induction (*Nature Medicine* 6(8):904-909, 2000). Ph.D. or M.D. with training in molecular biology and cell signaling techniques is required. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to:

**Yolonda Colson, M.D., Ph.D.**  
**Brigham and Women's Hospital**  
 75 Francis Street  
 Division of Thoracic Surgery  
 Boston, MA 02115  
 FAX: 617-730-2853  
 E-mail: ycolson@bics.bwh.harvard.edu

A **POSTDOCTORAL POSITION** is available for the study of signal transduction. Applicants should be available to study ephrin/Eph receptor signal transduction pathways using biochemical, molecular, and cell-based approaches as well as animal models. Send curriculum vitae, a statement of research interests, and three letters of reference to: **Ms. Elena Pasquale, The Burnham Institute, 10901 North Torrey Pines Road, La Jolla, CA 92037. Website: <http://www.burnham.org>.** The Burnham Institute is a nonprofit research institute in the heart of San Diego's Torrey Pines research mesa.

*Equal Opportunity Employer.*

**POSTDOCTORAL POSITIONS** are available immediately to study novel roles of angiogenic factors and receptors in tumor angiogenesis and progression. Applicants should have a Ph.D. and strong backgrounds in molecular and tumor biology. Experience in cell culture and animal modeling is a plus. Please send curriculum vitae, a summary of research experience, and the names of references to: **Shi-Yuan Cheng, Ph.D., University of Pittsburgh Cancer Institute, W-1055, BST, 200 Lothrop Street, Pittsburgh, PA 15213. E-mail: [chengs@msx.upmc.edu](mailto:chengs@msx.upmc.edu); website: <http://path.upmc.edu/people/faculty/syeheng.html>.**

**POSTDOCTORAL POSITIONS:** NIH-funded positions available to study signal transduction/cell cycle checkpoints elicited by DNA damage. Current projects include (1) molecular basis of the intra-S-phase checkpoint, (2) characterization of a novel DNA damage-regulated growth factor-binding protein, and (3) identification of signaling pathways that mediate DNA damage-induced regulation of mRNA stability. Applicants should submit curriculum vitae, cover letter, and three letters of reference to: **Dr. Cyrus Vaziri, Cancer Center, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118. E-mail: [cvaziri@bu.edu](mailto:cvaziri@bu.edu).**

### POSTDOCTORAL RESEARCH ASSOCIATE

Two positions are available for individuals trained in biochemistry or molecular/cellular biology to conduct research on the role of oxidative stress in the aging process. University of Southern California has particular strength in the areas of free radicals and gerontology. Apply to the attention of: **Professor R. S. Sohal, Department of Molecular Pharmacology and Toxicology, University of Southern California, 1985 Zonal Avenue, Los Angeles, CA 90089-9121. E-mail: [sohal@hsc.usc.edu](mailto:sohal@hsc.usc.edu); Telephone: 323-442-1860; FAX: 323-442-2038.**

**POSTDOCTORAL FELLOWSHIP:** University of Pittsburgh. Positions available to study HSV-mediated gene transfer in neurodegenerative disease, peripheral neuropathy, and treatment of pain. Basic investigations and preclinical animal studies for human gene therapy trials. Ph.D. in neuroscience or related field required. Send curriculum vitae and names of three references to: **David J. Fink, M.D., Department of Neurology, S-520 BST, 200 Lothrop Street, Pittsburgh, PA 15213. E-mail: [dfink@pitt.edu](mailto:dfink@pitt.edu).** The University of Pittsburgh is an Equal Opportunity Employer.

## POSITIONS OPEN

### POSTDOCTORAL RESEARCHER

A Postdoctoral position is available to analyze the expression and function of a new growth factor in prostate cancer. The study involves cell molecular biology methodologies to determine the effect of the growth factor on human prostate cancer cells proliferation, cell death protection, migration and invasion, and signal transduction pathways. Ph.D. in cell/molecular biology, biochemistry, or equivalent degree with major course work in molecular biology is required. Candidates must possess an extensive laboratory experience and solid background in molecular/cellular biology techniques (e.g., Northern analysis, Western analysis, immunoprecipitation, cell adhesion, PCR, cloning, mutagenesis, etc.) Salary midpoint is \$38,000. Salary may be higher depending on qualifications, publications, and experience. Application deadline is July 15, 2002. Send résumé; a brief summary of research experience; and information for three references (names, telephone numbers, and e-mail addresses) to: **Assistant Business Manager, Stanley S. Scott Cancer Center, Louisiana State University Health Sciences Center, 2025 Gravier Street, New Orleans, LA 70112. LSUHSC is an Equal Opportunity Employer/Affirmative Action.**

### POSTDOCTORAL/RESEARCH ASSOCIATE POSITION

#### Molecular Viral Oncogenesis and New Pathogen Discovery

Position available starting July 2002. Ongoing studies involve viral regulation of cMYC, pRB, apoptotic and interferon signaling pathways by Kaposi's sarcoma-associated herpesvirus (*Science* 266:1865, 1994; *PNAS* 93:1487, 1996) and use of molecular techniques to find unidentified pathogens. Experience in virology, transcriptional regulation, or genomics preferred. The laboratory is located in the University of Pittsburgh Hillman Cancer Center, a newly built, free-standing 350,000 square foot cancer research and treatment facility. Send curriculum vitae and three references by FAX or mail to: **Patrick S. Moore, M.D., M.P.H. and Yuan Chang, M.D., Molecular Virology Program, c/o Ms. Lorraine Ombres, University of Pittsburgh Cancer Institute, 305 Iroquois, 200 Lothrop Street, Pittsburgh, PA 15213. Website: <http://www.upci.upmc.edu/internet/molvirology/kshvlab.html>.**

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

### POSTDOCTORAL POSITIONS NANOSCIENCE

#### The University of Chicago and Argonne National Laboratory

The University of Chicago and Argonne National Laboratory invite applications for two Postdoctoral positions in conjunction with our recent joint initiative in the area of nanomaterial research. Successful candidates should hold a Ph.D. degree in physics, chemistry, or related fields and have a strong experimental background in either nanoelectronics, molecular electronics, nanooptics, or chemical synthesis of nanomaterials. Interested candidates should send curriculum vitae, a list of publications, and names of at least three references to: **Professor Heinrich M. Jaeger or Dr. Xiao-Min Lin, The James Franck Institute, University of Chicago, 5640 South Ellis Avenue, Chicago, IL 60637. U of C and ANL are Equal Opportunity Employers.**

### BACTERIAL GENE EXPRESSION

A **POSTDOCTORAL POSITION** is available immediately to investigate competence in *Haemophilus influenzae* using whole genome microarrays and real time PCR to identify and characterize regulatory interactions. More information (including pdfs of our funded research proposals) is available at website: <http://www.zoology.ubc.ca/~redfield>. We seek an ambitious and enthusiastic individual with experience in RNA work; a background in bacterial genetics would be advantageous. Apply to: **R. J. Redfield, Department of Zoology, University of British Columbia, Vancouver, BC V6T1Z4 Canada. E-mail: [redfield@interchange.ubc.ca](mailto:redfield@interchange.ubc.ca).**

## POSITIONS OPEN

### ASSOCIATE/ASSISTANT PROFESSOR Mitochondrial Research

The Departments of Anesthesiology and of Pharmacology and Physiology at the University of Rochester Medical Center seek applications for two full-time, tenure-track positions at the ranks of Associate and Assistant Professor. Competitive applicants will have a Ph.D., M.D., or M.D./Ph.D. degree; postdoctoral training; and a clear record of research productivity and creativity. We are especially interested in applicants who apply cutting-edge approaches to fundamental questions in mitochondrial structure and function and mitochondrial disorders and diseases. The successful candidate will join a highly interactive basic science and clinical faculty with research interests in intra- and intercellular signal transduction, cell death, vascular biology, neuropharmacology, and ion channel physiology. He or she will receive a competitive start-up package and will be expected to develop a dynamic and well-funded research program and to contribute to graduate and medical teaching programs. The University of Rochester Medical Center is undergoing a major expansion of research efforts in aging and developmental biology, cardiovascular research, vaccine biology, and genetics. Additional information about the University, the Department, and faculty research interests can be found at website: <http://www.urmc.rochester.edu/phph/index.html>. Please send curriculum vitae, a brief statement of future research plans, reprints of three key publications, and the names and addresses (including e-mail) of at least three references to: **Shey-Shing Sheu, Ph.D., Chair, Search Committee, Department of Pharmacology and Physiology, Box 711, University of Rochester Medical Center, 601 Elmwood Avenue, Rochester, NY 14642.** Review of applications will begin August 1, 2002, and will continue until the position is filled. *The University of Rochester is an Equal Opportunity/Affirmative Action Employer. Applications from qualified women and underrepresented minorities are encouraged.*

**POSTDOCTORAL POSITION** available immediately for biochemical and biophysical studies of purified parathyroid hormone receptors, a Class II GPCR. Expertise with protein biochemistry, cell culture, basic molecular biology, and command of spoken/written English needed. Please send curriculum vitae, 100-200 word career statement, and three references to: **Dr. G. V. Segre, Endocrine Unit, Massachusetts General Hospital/Harvard Medical School, Boston, MA 02114. FAX: 617-726-7543; e-mail: [segre@helix.mgh.harvard.edu](mailto:segre@helix.mgh.harvard.edu).**

## MEETINGS

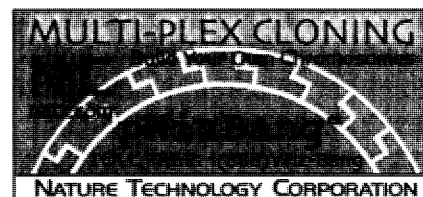
### PROUTS NECK PROSTATE CANCER MEETING

"Early Events in Prostate Carcinogenesis"  
 November 7-10, 2002  
 Black Pointe Inn/Prouts Neck, Maine

On behalf of the Program Committee, we urge all young **INVESTIGATORS** to submit an application for attendance at this very important meeting. Registration is strictly limited. Please forward your name, title, and abstract of presentation. Deadline for receipt of information is no later than June 30, 2002.

Send your request to: **Robert H. Getzenberg, Ph.D., ShadySide Medical Center, 5200 Centre Avenue, Suite G40, Pittsburgh, PA 15232. Women and minorities are encouraged to apply.**

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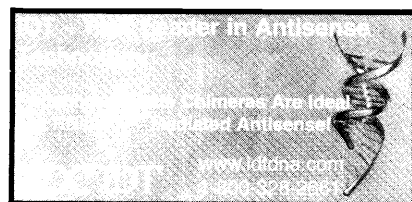
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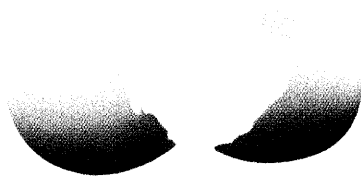
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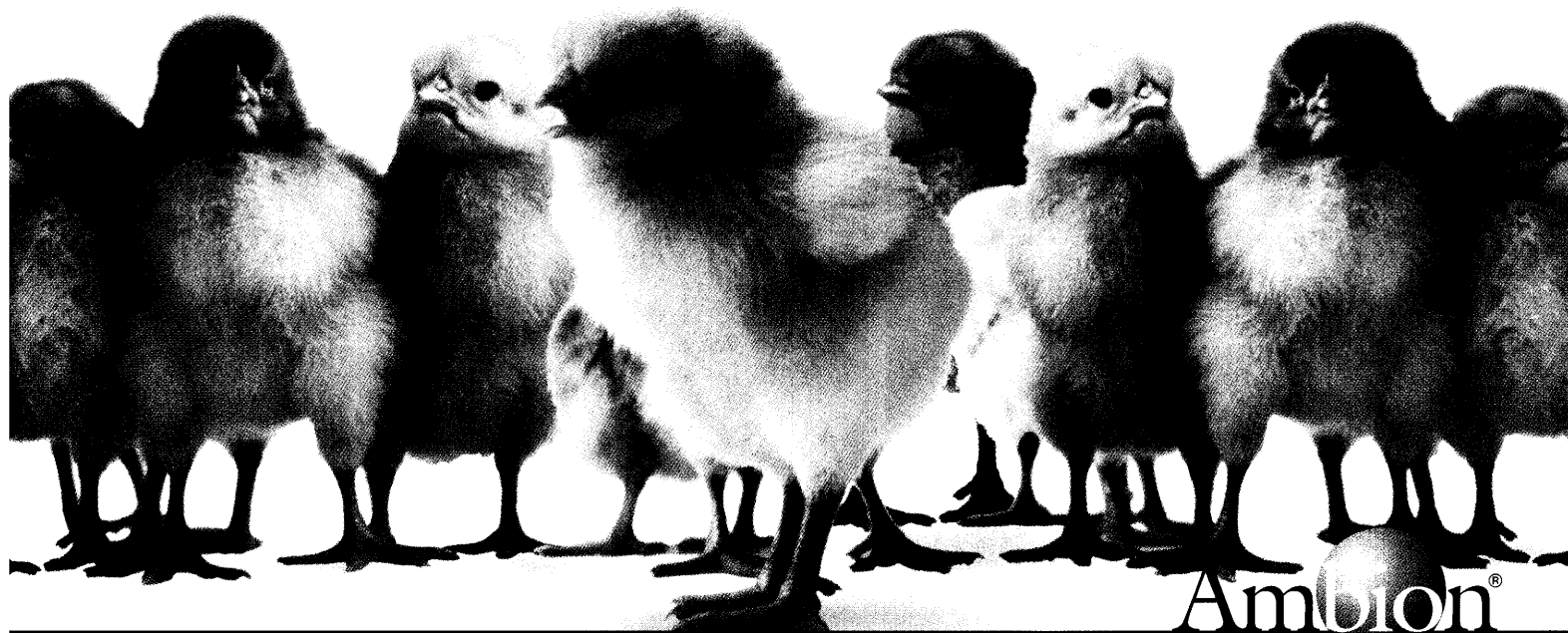
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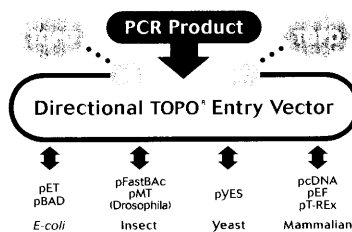


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