

NEW PRODUCTS

PRIMER ANALYSIS SOFTWARE

Premier Biosoft International

For more information call 650-856-2703 or **circle 143** on the Reader Service Card

NetPrimer is software that analyzes primers individually or in pairs. It combines the latest primer design algorithms with an intuitive interface, allowing the user to quickly analyze primers. Primers are also analyzed for melting temperature

using the nearest neighbor thermodynamic theory. Primers are analyzed for all secondary structures including hairpins, self-dimers, and cross-dimers in primer pairs. The program eases quantitation of primers by calculating primer molecular weight and optical activity. The software is available free of charge on the Internet.

PLASMID DNA PURIFICATION SYSTEM

The Wizard PureFection Plasmid DNA Purification System is for the rapid isolation of transfection-grade plasmid DNA. The system incorporates MagneSil Paramagnetic Particles, which respond rapidly in a magnetic field allowing for quick and easy purification of plasmid DNA using a simple, hand-held magnet. The high binding capacity of MagneSil Particles allows up to 1 mg of plasmid DNA to be recovered from 125 ml of bacterial culture. A novel endotoxin removal resin is included that ensures extremely low levels of bacterial endotoxin.

Promega

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SPATIAL STATISTICS SOFTWARE

GS⁺ for Windows (98 or NT) is a new version of a popular spatial statistics program designed to provide desktop access to geostatistics and other spatial metrics. Originally developed for the mining industry, geostatistics is now widely used for detecting and mapping environmental variability in fields as diverse as microbial ecology, groundwater hydrology, physical oceanography, and remote sensing. GS⁺ for Windows offers a comprehensive suite of geostatistical tools including variogram analysis, as well as fractal and other autocorrelation indices. Visualization is pro-

Gamma Design Software

For more information call 616-685-9011 or **circle 145** on the Reader Service Card

vided by two- and three-dimensional mapping algorithms, or output can be exported to Geographic Information Systems.

AUTOMATED TISSUE PROCESSOR

The LYNX Automated Tissue Processor can be used in ultrastructural studies, with extremely hard tissues, in high-resolution light microscopy, in immunohistochemistry, for dehydration, for deparaffinization, for staining, and more. The enclosed benchtop unit features stainless-steel working surfaces and a reagent turntable that can hold up to 56 specimens. It features a tem-



perature range of 4° to 60°C, built-in exhaust fan, alarm monitoring, battery backup, storage of 10 programs with 20 pre-programmable steps each, and printer output.

FIBER OPTIC VARIABLE ATTENUATOR

The FVA-UV Fiber Optic Variable Attenuator is an opto-mechanical device that controls light levels. The attenuator couples via optical fibers to spectrometers, light sources, and other sampling optics. It is used to attenuate light at all wavelengths uniformly. The FVA-UV Attenuator consists of an aluminum block with threaded ports that hold two fiber-coupled collimating lenses. The attenuator is placed in line between light sources, spectrometers, and other fiber optic devices to permit variable attenuation of the light. A wheel, with an aperture that varies in width along the circumference, is between the collimating lenses. Rotating the wheel controls the fraction of light transmitted through the fixture.

Ocean Optics

For more information call 727-733-2447 or **circle 147** on the Reader Service Card

PALM-SIZE PIPETTER

The Vacuset Pipetter is a palm-size device for continuous aspiration or dispensing of liquids in microtiter plates, vials, tubes, and flasks. Multiple tip attachments include flame-sterilizable steel tips and disposable plastic tips. The autoclavable device requires a vacuum bottle for liquid waste collection or pressure bottle for liquid delivery.

Inotech Biosystems

For more information call 800-635-4070 or **circle 148** on the Reader Service Card

LITERATURE

Solvent Retention Data, a valuable resource for chromatographers analyzing residual solvents, provides an extensive list of solvents as important reference for method development. Compiled over years of analysis by the publisher's applications chemists, the list is the most comprehensive of its type in the industry. It is sorted alphabetically and by retention time for easy use.

J&W Scientific

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A new poster provides information on a comprehensive range of precast gels and electrophoresis platforms. The double-sided, stain-resistant poster contains a wealth of information for those involved in two-dimensional electrophoresis, SDS-polyacrylamide gel electrophoresis (PAGE), native-PAGE, isoelectric focusing, and DNA techniques. The poster will help scientists choose a platform system, pinpoint the applications of choice, consider the separation range required, and order the right material.

Amersham Pharmacia Biotech

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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 manufacturers or suppliers named by circling the appropriate number on the Reader Service Card and placing it in a mailbox. U.S. postage is free.

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POSITIONS OPEN



The Children's Mercy Hospital and University of Missouri-Kansas City School of Medicine are seeking candidates for the recently endowed **DEE LYONS/MISSOURI CHAIR** in pediatric immunology research. Candidates should be established Clinical Investigators with a medical degree. They must qualify for appointments to the academic rank of Associate or Full Professor. *International applicants must have a valid employment visa.*

For further information contact: **Dr. Ralph Kauffman**, Director of Medical Research, Children's Mercy Hospital, 2401 Gillman Road, Kansas City, MO 64108. E-mail: rkauffman@cmh.edu; website: <http://www.cmh.edu/immunology>.

Children's Mercy Hospital and University of Missouri-Kansas City are Equal Opportunity/Affirmative Action Employers.

FACULTY POSITION IN CHEMICAL BIOLOGY/BIOORGANIC CHEMISTRY

The Department of Pharmacology and Molecular Sciences at the Johns Hopkins University School of Medicine is initiating a search for tenure-track faculty with research programs at the chemistry-biology interface. Examples of targeted research areas include the synthesis and/or use of small molecules as probes for problems of interest in biology, pharmacology, and medicine; mechanistic approaches to enzymes, receptors, and macromolecular machines; and combinatorial approaches to ligand discovery. We are primarily interested in **ASSISTANT PROFESSOR**-level candidates, but particularly qualified **ASSOCIATE** or **FULL PROFESSOR** candidates will also be considered. We seek individuals with a record of significant accomplishment in research and high potential for creative scholarship. An interest in graduate and medical student teaching is also important. The Johns Hopkins University School of Medicine provides a stimulating and supportive environment for research. Strong research programs in chemical biology, virology, oncology, neuroscience, and immunology exist within the Department of Pharmacology and Molecular Sciences as well as in the University as a whole. A letter of inquiry, curriculum vitae, summaries (one to three pages) of up to two research proposals, and two reprints should be sent by interested applicants to: **Dr. Philip A. Cole**, Chair, Faculty Search Committee, Department of Pharmacology and Molecular Sciences, Johns Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205. FAX: 410-955-3023. Applicants should arrange to have three reference letters sent to this address. Review of applications will begin on October 1, 1999. *Women and minorities are strongly encouraged to apply. The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.*

Temple University. Faculty. Tenure-track **ASSISTANT PROFESSOR**. Joint appointment in Department of Microbiology and Sol Sherry Thrombosis Research Center at Temple University School of Medicine. The candidate should have a Ph.D. and/or M.D. and have completed a Postdoctoral Fellowship. The individual will be expected to establish an independent research program, preferably in vascular biology or related areas of hemostasis, thrombosis, or inflammation. Generous space and start-up support will be provided. The Thrombosis Research Center and the Department of Microbiology both have training grants for graduate students and Postdoctoral Fellows, and the individual selected will be able to participate as a faculty member. Contact: **Robert W. Colman**, M.D., Director, Sol Sherry Thrombosis Research Center and Chief, Hematology Division, Temple University School of Medicine, FAX: 215-707-2783; e-mail: colmanr@astro.temple.edu. Please include current curriculum vitae, complete list of publications, and names of three references. *Temple is an Equal Opportunity/Affirmative Action Employer and strongly encourages applications from women and minorities.*

POSITIONS OPEN



Genetics. The Department of Biology at Swarthmore College invites applications for a one-semester **FACULTY LEAVE REPLACEMENT POSITION** beginning January 2000. Applicants should have a Ph.D., teaching experience, and a strong commitment to undergraduate education. All application materials should be received by 24 September 1999.

Teaching is expected to include an intermediate-level course in general genetics and a second offering of an advanced nature. Interested persons should submit a curriculum vitae, three letters of recommendation, and a statement of teaching interests to: **Dr. John B. Jenkins**, Professor, Department of Biology, Swarthmore College, Swarthmore, PA 19081-1397.

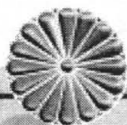
Swarthmore College is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

ANATOMY AND PHYSIOLOGY/ BIOLOGY EDUCATION

The Department of Zoology and Genetics at Iowa State University seeks a tenure-track faculty member to teach human anatomy and physiology, to supervise coordination of accompanying laboratories, and to develop a program of scholarship in biology education. The successful candidate will have a Ph.D. in a biological science and a record of scholarly accomplishment in biological science education. Those making a transition from biological research into educational scholarship are encouraged to apply. Areas of interest may include distance education, innovative teaching methods, outreach to teachers, or issues such as gender in science education or curriculum reform. The person chosen will be expected to attract outside funding to support their scholarship or teaching innovations, and attract graduate students in the area of biology education. The person will join a growing campus community with interests in science education. A portfolio approach to evaluation and opportunities for professional development will provide clear support for this position, and a start-up package and logistical staff support will be provided. This position is available starting January 1, 2000. By October 1, 1999, submit a curriculum vitae, a statement of teaching philosophy, and a plan for future scholarly activities and arrange for three letters of reference to be sent to: **Dr. Dennis G. Emery**, Department of Zoology and Genetics, Iowa State University, Ames, IA 50011. E-mail: dgemery@iastate.edu.

CELL BIOLOGIST LOUISIANA STATE UNIVERSITY

The Department of Biological Sciences at Louisiana State University invites applications for a tenure-track **ASSISTANT PROFESSOR** position in cell biology available August 14, 2000. Candidates should have Ph.D. or equivalent degree and postdoctoral experience with outstanding research accomplishments and strong teaching interests. The successful candidate will be expected to teach courses at the undergraduate and graduate levels. Applicants should submit a curriculum vitae, statements of research and teaching interests, and have three letters of recommendation sent to: **Cell Biologist Search**, c/o Dr. Richard Bruch, Department of Biological Sciences, 508 Life Sciences Building, Louisiana State University, Baton Rouge, LA 70803. Ref. Log #0049. Review of applications will begin October 1, 1999, and will continue until the position is filled. Information about the Department is available at website: <http://biosci.biosci.lsu.edu>. Inquiries may be sent to e-mail: rbruch@lsu.edu.



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IGEN International, Inc., develops, manufactures and markets diagnostic systems using its patented ORIGEN technology. Our Research and Development team is developing state of the art medical diagnostic testing systems, including rapid, high-throughput and hand-held devices for research and clinical applications. We are looking for exceptional candidates with experience in all areas relevant to medical diagnostics research, development and manufacturing.

Clinical Diagnostics

Research Scientists, Advanced Diagnostics (Job Code 1000)

We seek scientists who can recognize emerging trends in novel markers, metabolites and signaling/regulatory systems, and reduce these emerging trends to practice through the development of advanced diagnostic assays. Candidates should have knowledge or experience in hematopoietic systems, hemostasis, intra- and inter-cellular signaling and regulatory systems as well as a deep interest in advancing human medical care. This position requires a Ph.D. or M.D./Ph.D. in Immunology, Pathology, Molecular Biology, Chemistry or another relevant field.

Scientist/Product Development (Job Code 1200)

You will participate in all aspects of the development of disposable clinical chemistry systems. The successful candidate will have a broad knowledge of commercial dry film/strip clinical chemistry systems or commercial ion-selective electrode (ISE) technologies. Experience in reagent processing and manufacturing, system manufacturing and regulatory affairs is desirable; 5-10 years experience in a commercial IVD environment is required.

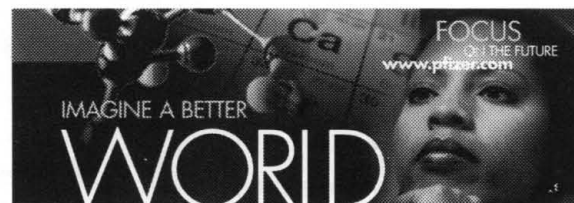
Scientist/Sr. Scientist, Nucleic Acid Probes (Job Code 1300)

We seek scientists to develop nucleic acid diagnostics for research and clinical applications. Successful candidates will investigate novel means of sample collection, sample processing, nucleic acid amplification and high-sensitivity detection schemes. This position requires a Ph.D. in Chemistry, Biochemistry, Molecular Biology or other relevant fields. Experience in assay development and validation in the in-vitro diagnostics industry required for senior positions. Experience with high-throughput or point-of-care diagnostics preferred.

Send resume and cover letter, specifying Job Code to:

IGEN International, Inc.
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Gaithersburg, MD 20877
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Fax: 301-947-6998
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At Pfizer, you'll have all the resources you need to bring new and dynamic ideas to fruition. As a company committed to innovation, we share your goal of making this world a healthier place and value the creative drive and professional expertise it takes to get there. Working together, we will continue to develop and launch the products that make such a difference in the lives of so many. At Pfizer, the power to create a better world is as immediate as it is real—and it belongs to you.

We have the following opportunities available in our Groton, CT facility.

BS/MS BIOLOGY

CNS Molecular Biology

In this position, you will be responsible for the application of molecular and cell biology techniques directed towards the discovery of new CNS therapeutics. The ideal candidate will be proficient in the application of standard techniques in molecular and cell biology and have the desire and ability to acquire new techniques to address developing experimental approaches. Techniques currently used in this position include cloning, isolation and analysis of DNA and RNA, preparation of cDNA, RT-PCR, culture of neuronal cell lines, in situ hybridization and immunohistochemistry. Participation in project and team meetings as well as the day-to-day operation of the laboratory is expected. As a team member, you will be expected to demonstrate the flexibility and willingness to work with colleagues from other disciplines to meet team objectives. BS in biology with 2 years of lab experience required; MS in neuroscience, cell or molecular biology desired. Strong written and verbal skills are essential. Protein chemistry skills, including heterologous protein expression in mammalian, bacterial and baculoviral systems, SDS-PAGE, Western and ELISA techniques are also desirable. Job Code: 9900094SCI

Cardiovascular & Metabolic Diseases

Working in a laboratory devoted to the discovery of new therapies for osteoporosis and muscle frailty, you will perform in vivo and in vitro experiments, including characterization of molecular and biochemical endpoints to establish new screens. BS in biology with 2 years of laboratory experience required; MS in cell or molecular biology with experience in establishing, validation and executing screens for compounds desirable. Laboratory skills in maintaining cell cultures, harvesting of tissue for primary cell cultures, immunohistochemistry, ELISA, Westerns, Northern, PCR, in situ hybridization essential. Must be able to maintain excellent laboratory notebooks, be fluent in computer data analyses and communicate experimental results in oral and written format. Job Code: 9921842SCI

Neuroscience

In these key assignments, you will perform in vitro/in vivo electrophysiological experiments in research projects directed toward the discovery of novel CNS drugs. Techniques used in your research will include patch and voltage clamp recording from a variety of cell lines, Xenopus oocytes and primary neurons, and brain slice preparations. Experience should include in vitro electrophysiology from neurons, cell lines or oocytes. BS/MS required, experience with primary cell culture, tissue dissociation and maintenance of cell lines, intracellular calcium imaging, brain slice preparation and recording, confocal imaging, cRNA/DNA preparation is desirable. 1-2 years in drug discovery environment and expertise in biochemistry assays (Westerns, ELISA) or other interdisciplinary neuroscience skills/techniques is also desirable. Job Code: 9927113SCI

Pfizer offers exceptional salaries and benefits, as well as tremendous growth potential. Please send your resume in confidence to: Pfizer Inc, Job Code: _____, Central Research, c/o Aon Consulting, P.O. Box 25, Findlay, OH 45839, or e-mail to: Pfizer@aon-hros.com. As an Equal Opportunity Employer, Pfizer is focused on building a diverse workforce.



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Center for Anesthesiology Research

Assistant Professor level position to lead our basic and/or clinical research program in pain. Prior experience in pain research, electrophysiology, and/or neuropharmacology is required. Doctoral degree (M.D. and/or Ph.D.) and postdoctoral training required. Primary focus on research, but clinical opportunities available. Join a growing research program in the Division of Anesthesiology and Critical Care Medicine utilizing *in vivo*, *in vitro* and molecular techniques to address fundamental research issues. Numerous collaborative opportunities in clinical departments and the Lerner Research Institute. Competitive salary and start-up funds. Candidates should send CV, Name and Fax number of 3 references, and a brief statement of research interests to: **Dr. Paul A. Murray, Carl E. Wasmuth Endowed Chair and Director, Center for Anesthesiology Research - FF40, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195.** The Cleveland Clinic Foundation is an Affirmative Action/Equal Opportunity Employer.

SYMPOSIUM

Whitehead Symposium XVII "The Biology of Drug Discovery"

**October 24 - 26, 1999
Kresge Auditorium, MIT**

Speakers include: Susan Amara, Carolyn Bertozzi, Patrick Brown, Jonathan Ellman, Ronald Evans, Stanley Fields, Judah Folkman, Claire Fraser, Ulrike Heberlein, Ira Herskowitz, Peter Kim, Chaitan Khosla, Eric Lander, John Mekalanos, Stuart Schreiber, Edward Scolnick, Robert Siliciano, Jose Varghese, Inder Verma, Charles Weissman, Jim Wells, Dyan Wirth.

Registration

Regular (includes postdocs): \$100
Student: \$35 (ID required)
MIT Student: No charge

To obtain a registration form call Whitehead Institute Public Affairs at 617-258-5183, or visit Whitehead Institute's website at www.wi.mit.edu and click on "conferences."

Roche

PCR OPERATIONS

SENIOR SCIENTIST Cell Banking/Molecular Biologist

Roche Molecular Systems, Inc., a Business Unit of the world's largest diagnostics company, is a leader in research, development, and manufacture of molecular diagnostic reagents. We currently have an excellent opportunity for a Senior Scientist in our PCR Manufacturing group.

This person will coordinate the preparation and testing of bacterial Working Cell Banks to meet GMP requirements. This includes batch manufacture and testing using approved documentation. The individual should have a strong background in DNA Sequencing, restriction digest analysis, DNA purification including plasmid preparations and *in-vitro* translation protocols, as well as DNA/RNA handling techniques.

The successful candidate will have a Ph.D. with 1-2 years of experience in Cell Banking and Nucleic Acids or a BS/MS in Microbiology, Molecular Biology, or equivalent with 4-6 years of experience. Expert knowledge of all phases and strategies for the preparation and characterization of Working Cell Banks, and Nucleic Acid Purification is required. The individual should also have experience in working with radioisotopes in performing enzymatic activity assays. Working knowledge of cGMPs, QSRs, and ISO requirements is also necessary. Ability to prepare manufacturing documents and coordinate/implement production schedules is essential. Good knowledge of Microsoft Word & Excel is a necessity. Strong problem-solving, verbal/written communication skills, and self-starting attitude is highly desired.

We offer a competitive salary, generous benefits package, and a state-of-the-art environment that is conducive to professional success. For consideration, please forward your resume and salary requirements (which must be included) to: **Roche Molecular Systems Inc., Human Resources Dept. RAK, Branchburg Township, 1080 U.S. Highway 202, Somerville, New Jersey 08876-3771.** We are an equal opportunity employer m/f/d/v.

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The United Nations
University

**Director
Institute for New Technologies (UNU/INTECH)
Maastricht, Netherlands
Circa US\$88K - 96K net + benefits**

The United Nations University (UNU) is seeking qualified candidates for the position of Director of the Institute for New Technologies (UNU/INTECH), an integral part of the UNU. The Institute has established a record of academic excellence since it was founded in October 1990. The UNU's mission is to contribute, through research and capacity building, to efforts to resolve the pressing global problems that are the concern of the United Nations and its member states. The UNU's key goals are: to be an international community of scholars; to form a bridge between the United Nations and the international academic community; to serve as a think-tank for the United Nations system; and to contribute to capacity building, particularly in developing countries. We are now seeking to make a senior appointment to assist achievement of UNU goals.

UNU/INTECH conducts integrative policy-oriented research and capacity building on the economic and social implications of new technologies for developing countries. It does this by linking up to institutions, primarily in developing countries, that are pursuing similar research. Its programmes emphasise research on the opportunities presented by new technologies, their economic and social impact, policy studies on topical issues and the training of Ph.D. fellows. The Director is the chief academic and administrative officer of the Institute and directs, organises, administers and programmes the Institute in accordance with the policies established by the advisory board and the UNU Council.

You will have a Ph.D., preferably in economics, one of the political or social sciences, or in a field related to science and technology. You will also have demonstrated academic excellence in the field of innovation studies and science and technology policy. A strong background of research and publications in areas related to UNU/INTECH's interests and proven performance in an academic or research institution are essential. Work related to the impact of science and technology in developing countries, in particular Africa, would be highly valued. Experience in both management and fund-raising is required.

It is expected that the appointee will take up the position in late 1999 or sometime in 2000. Appointments are normally for a four-year term, with the possibility of renewal. Nominations or letters of application, including full curriculum vitae and names and addresses and fax numbers of three referees should be sent to UNU/INTECH Directorship Search Committee, C/o Office of the Rector, United Nations University Headquarters, 53-707 Jingumae 5-chome, Shibuya-ku, Tokyo 150-8925, Japan, FAX: +81 3 3499 2828. The UNU particularly encourages applications from suitably qualified women candidates. Closing date: 15 September 1999. E-mail applications will not be accepted.

Patrick P. A. Humphrey IHS—Glaxo Wellcome Fellowship (3 yr)
for headache research
(Effective 1st January, 2000)

Recognizing that advances in medicine and scientific research are a collaborative effort and require a constant infusion of new ideas and innovative approaches, Glaxo Wellcome has committed significant resources to establish the Patrick P.A. Humphrey IHS—Glaxo Wellcome Fellowship. This exciting initiative reflects Glaxo Wellcome's commitment to advancing high caliber academic research on headache mechanisms and treatment. This prestigious international Fellowship will be available from 1st January 2000, for a period of three years, and will be awarded to the candidate considered to have good academic credentials and to have submitted the most interesting research proposal. The stipend (to a maximum of £50,000 per annum) will provide for salary, travel, and research consumables. Supplementation from other sources is permitted.

The applications will be assessed by an international selection panel under the auspices of the Scientific Committee of the International Headache Society (IHS) who will award the Fellowship to a young (<40 yr) post-doctoral scientist or clinician in any country, who has the perceived potential to pursue internationally competitive research. Preference will be given to individuals who have identified a suitably appropriate laboratory in which to pursue their research.

Application

Submit by mail (not email or fax) 12 copies of the following:

- 1) Curriculum vitae of the applicant with full bibliography;
- 2) Research proposal (including background, specific aims, rationale, brief methodology, significance, references, and full details of monies requested) of up to 5000 words in text;
- 3) A letter of support from the department or laboratory Head in which the work is intended to be carried out;
- 4) Letters of recommendation (optional).

Deadlines and address

All applications and supporting materials must be received by 15th October 1999. The decision of the IHS Scientific Committee will be communicated by 15th December 1999 and announced in *Cephalalgia*, the official journal of the IHS.

Send applications to one of the following:

P P A Humphrey, Ph.D., D.Sc.

Director, Glaxo Institute of Applied Pharmacology
Department of Pharmacology
University of Cambridge
Tennis Court Road
Cambridge CB2 1QJ
UK
Tel: 44-(0)1223-334078
Fax: 44-(0)1223-334178
Email: ppah0562@glaxowellcome.co.uk

Michel D Ferrari, MD, Ph.D.

Associate Professor of Neurology
Chair IHS Scientific Committee
Leiden University Medical Centre
Department of Neurology
P.O. Box 9600 2300 RC Leiden
The Netherlands
Tel: 31-(0)71-5262134
Fax: 31-(0)71-5248253
Email: MFerrari@Neurology.AZL.NL

SENIOR APPLICATIONS SCIENTIST

Packard Instrument Company, an international leader in the manufacture and sale of scientific instrumentation, seeks an individual to work with marketing and engineering to define, test, and validate customer applications on microplate instruments. This hands-on position will actively contribute to the development of new instrumentation.

Requirements include: A Ph.D. or M.S. in Biology, Chemistry, Molecular Biology with 4-6 years field experience. Proficiency in instrument testing and validation for a wide range of pharma/biotech HTS assays; excellent communication & presentation skills. Some travel required.

Qualified applicants should send, fax or e-mail resumes to:

Human Resources Dept.



Packard
A Packard BioScience Company

**2200 Warrenville Road
Downers Grove, IL 60515
Fax: 630-969-6511**

E-mail: nyoung@packardinst.com

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ASSISTANT PROFESSOR FACULTY POSITIONS

The University of Texas M.D. Anderson Cancer Center, Science Park—Research Division, is entering a new recruitment phase and expanding into new laboratories. Applications are being accepted for several tenure-track positions at the Assistant Professor level from individuals with 3–5 years postdoctoral or independent research experience and strong publication records. Research at Science Park focuses on cellular and molecular mechanisms involved in carcinogenesis and mechanism driven cancer prevention.

For one position, we seek applicants working in the area of mechanism-based cancer chemoprevention/dietary intervention. For the other positions, preference will be given to applicants working in the general area of molecular and genetic mechanisms underlying cancer development. Candidates with expertise in genomics, proteomics and advanced gene targeting approaches are encouraged to apply; however, outstanding candidates with other areas of expertise will also be considered. Successful applicants will be expected to establish high-quality, independent research programs that complement our ongoing research activities. It is also expected that successful candidates will participate in our graduate training program.

The Science Park is located in a rural park-like setting in Smithville, Texas, just outside of the state capitol of Austin, in the beautiful Texas hill country. Ongoing research activities of the faculty are described in our website at <http://sciencepark.mdanderson.org/>. Excellent start-up funds, salary, and benefits package will be provided as well as access to numerous state-of-the-art equipment, communication, research and service facilities.

Submit curriculum vitae, two representative publications, a brief outline of current and future research plans, and three letters of reference by October 15, 1999 to: **Dr. Cheryl Walker, Chair, Search Committee, c/o Mrs. Mary Lou Fendley, University of Texas M.D. Anderson Cancer Center, Science Park - Research Division, P.O. Box 389, Smithville, TX 78957.**

Equal Opportunity/Affirmative Action Employer.

Vanderbilt University

**Director, W. M. Keck Foundation
Free Electron Laser Center
for Biomedical and Materials Research**

Vanderbilt University has undertaken a national search for a Director for the W. M. Keck Foundation Free Electron Laser (FEL) Center.

This Center is a user facility dedicated to the development of applications of free electron lasers to medicine and materials science. It encompasses broadly based interdisciplinary collaborations including faculty and students from physics, molecular biology, biomedical engineering, clinical and biomedical sciences and materials science.

The director is responsible for the operation and development of the center assisted by core staff.

The University is seeking a personable manager with a vision toward the growth of the center, by establishing bridges through applications between federal and private funding agencies. He/She will also be expected to have an understanding of and a vision for future developments in advanced light sources and other technology appropriate for the center. The appointment is a faculty position with rank, salary and home department all determined by the experience and interest of the candidate.

Interested parties should send a curriculum vitae, including the names of at least four references to:

Dr. Frank Carroll
Vanderbilt University Medical Center
Department of Radiology, 920 VUH
1161 21st Avenue South
Nashville, TN 37232-2675
Phone: 615-322-0864
Fax: 615-322-3764

E-mail: frank.carroll@mcmail.vanderbilt.edu

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Mammalian Genomics at Cornell University

As part of a major, university-wide genomics initiative, Cornell University is soliciting applications from outstanding candidates with expertise in mammalian genomics. The mammalian genomics program bridges biological science departments on academic and veterinary campuses in Ithaca, NY and the Weill Medical College in New York City. The mammalian genomics program is part of a broad university initiative that also includes computational genomics and bioinformatics, microbial and plant genomics, and nanobiotechnology. A description of the initiative, complete job descriptions, and contact information can be found at <http://www.genomics.cornell.edu/>. Review of applications will begin immediately and continue until the positions are filled. Send all applications to Professor Patrick Stover, co-Chair Mammalian Genomics Search Committee, 435 Day Hall, Cornell University, Ithaca, New York or to Bernadette M. Mosellie, Joan and Sanford I. Weill Medical College of Cornell University, 1300 York Avenue, Box # 27, New York, NY 10021.

Faculty Positions

All positions are tenure-track, and generous start-up packages will be provided. Emphasis will be placed on identifying exceptionally talented individuals with strong research programs and who are interested in contributing to the development of an outstanding mammalian genomics program.

Director (Full/Associate Professor) of the Mammalian Genomics Program: Candidates are sought with expertise in mouse genetics, capable of providing leadership in a university-wide interdisciplinary mammalian genomics program, and who can participate actively in the Graduate Field of Genetics and Development. Applicants with a wide range of expertise in mouse genetics, embryonic stem cell manipulation and mutagenesis are preferred, with research in developmental and/or cell biology of particular interest. The successful applicant and the search committee in conjunction with the candidate departments will determine the position's departmental affiliation within the Colleges of Arts and Sciences and Medicine, with the primary location being in Ithaca.

Assistant Professor: Candidates are sought with expertise in positional cloning, gene targeting, or mouse development. Applicants should have a demonstrated interest in the application of genetic strategies to investigate gene/nutrient interactions in metabolic pathways having human nutritional implications; committed to develop a vibrant, externally funded research program, be actively engaged in the university's teaching mission, and be eligible for membership in the Graduate Fields of Nutritional Sciences and of Genetics and Development. The successful applicant and the search committee in conjunction with the candidate departments will determine the position's departmental affiliation in the College of Human Ecology.

Assistant, Associate, and/or Full Professors: Weill Medical College of Cornell University in New York City (formerly known as Cornell University Medical College) is seeking applications from outstanding candidates with expertise in mammalian genomics. We are especially interested in candidates with research interests related to the genetics of the pathobiology of human disease, pharmacogenetics, cancer genetics and computational genetics. Exceptional candidates in other related/appropriate fields will also be considered. Candidates should have Ph.D.- or M.D. degrees. In addition to participating in the Genomics Initiative in Ithaca, recruits may participate in the Graduate School of Medical Sciences program that includes faculty from the Weill Medical College and the Sloan-Kettering Institute.

Assistant Professor: Candidates are sought whose research program focuses on the genetic and molecular mechanisms of quantitative traits and/or those with complex inheritance. Applications to genetic improvement of domestic animal populations are of special interest. Contributions to research and teaching in the broad field of mammalian genomics are expected. The successful applicant and the search committee in conjunction with the candidate departments will determine the position's departmental affiliation within the College of Agriculture and Life Sciences in Ithaca.

Assistant Professor: Candidates are sought whose research and teaching interests are in the area of human genomic diversity. We are especially interested in candidates with expertise in the molecular and quantitative analysis of human population variation and who can contribute to programs in comparative, mammalian and/or computational genomics. The successful applicant and the search committee in conjunction with the candidate departments will determine the position's departmental affiliation within the College of Arts and Sciences in Ithaca.

Assistant/Associate/Full Professor: The College of Veterinary Medicine at Cornell University invites applications to fill two tenure track faculty positions in the field of genomics / genetics. Preference will be given to individuals using canine species or the mouse as a model. The successful applicant and the search committee in conjunction with candidate departments will determine the position's departmental affiliation within the College of Veterinary Medicine. Applicants who hold a D.V.M. or equivalent are especially encouraged to apply.

Cornell University is an affirmative action/equal opportunity employer.

Unique Pre- and Post-doctoral Training Opportunity in Quantitative Toxicology/PBPK-PD Modeling

If you are a U.S. citizen or permanent resident and meet more than 3 criteria listed below, please apply for this unique NIEHS funded training opportunity to broaden your horizon with an unusually broad interdisciplinary team.

- An independent thinker and doer willing to meet challenges
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- Interested in research work in carcinogenesis, mutagenesis, endocrine disruptors
- B.S. degree (for predoctoral) in one of the basic sciences or engineering
- For postdoctoral candidates, Ph.D. in toxicology or one of the basic sciences or engineering or M.D. or D.V.M.
- An outstanding molecular biologist but cannot find a job
- An outstanding engineer but would like to work on biomedical research

We are a team of toxicologists, cancer biologists, engineers, and modelers working together to provide a nurturing and stimulating environment for training students and postdocs for the 21st century. We have your employment prospects in mind. Please write to:

Dr. Raymond S. H. Yang
Quantitative and Computational Toxicology
Center for Environmental Toxicology and Technology
Colorado State University
Foothills Campus
Fort Collins, CO 80523-1680

CSU is an Equal Opportunity/Affirmative Action Employer

Stanford University and Veterans Affairs Palo Alto Health Care System Director, VA Rehabilitation R & D Center

The Biomechanical Engineering (BME) Division of the Mechanical Engineering Department, the School of Medicine of Stanford University, and the Veterans Affairs (VA) Palo Alto Health Care System announce an opening for an Associate Professor (Research). An appointment at the level of full Professor (Research) may also be considered, based upon the experience and achievements of the applicant. The successful candidate will serve as Director of the Rehabilitation Research and Development Center of the VA Palo Alto Health Care System. This is a major national laboratory that conducts biomedical engineering and clinical research to develop innovative treatments and devices for veterans with orthopaedic and neurologic impairments. Current focus areas are osteoporosis, osteoarthritis, stroke and spinal cord injury. The Center activities include extensive interactions with VA clinical and research staff as well as Stanford students and faculty. This is to be a joint academic appointment between the Department of Mechanical Engineering in the School of Engineering (primary affiliation) and the School of Medicine (secondary affiliation). The Medical School department affiliation will depend upon the interests of the candidate but will likely be in the Department of Functional Restoration or Department of Neurology. The successful candidate will also carry a full time appointment at the VA Palo Alto. Candidates must be US citizens and should have a Ph.D. degree. He/she should have a strong record of research activity, the proven capacity to attract research funding, and will be expected to have leadership and administrative abilities in a multidisciplinary environment. Although classroom teaching is not required, the candidate will be expected to serve as a research supervisor for doctoral candidates and post-doctoral fellows, and interact with students and faculty at all levels.

Stanford is an equal opportunity affirmative action employer and welcomes applications from interested minority candidates. Applicants should submit a current resume, a list of publications, and three referee names by November 1, 1999 to ensure full consideration.

Applications, which will be accepted until the position is filled, should be mailed to: Prof. D. R. Carter, Chairman, Search Committee, Biomechanical Engineering Division, Mechanical Engineering Department, Stanford University, Stanford, CA 94305-3030, email: dcarter@leland.stanford.edu

Research Associate, Limnologist. Position 002-889.

12-month, full-time, fixed-term appointment. Incumbent to help integrate relationships among the physical, chemical, and biological components of the water column of Crater Lake, which has been studied continuously since 1983. Data sets include weather, water temperature, optical properties, water quality and nutrients, chlorophyll, primary production, phytoplankton species, cell abundance, and biomass, zooplankton species, abundance, and biomass, and relative abundances, ages, growth and the diets of kokanee salmon and rainbow trout. Although each data set has been analyzed and conceptual models have been developed of the interrelationships among components in the water column, no attempt has been made to integrate them. The inputs for an ecological simulation model need to be prepared and the output interpreted. Other researchers are working on the microbial loop (NSF) and deep-water mixing processes (USGS global climate change project).

Qualifications:

Required: Ph.D. in limnology, oceanography or a closely related field. Demonstrated ability to integrate physical, chemical, and biological data sets. Knowledge and ability to integrate components and processes of the water column. Demonstrated knowledge of limnological ecosystem models and data assimilation techniques. Demonstrated record of ability to work constructively; independently and/or with a team of researchers. Ability to write reports and publications for peer-reviewed journals. The full-time salary rate is anticipated to be between \$34,008-\$38,004 for one year, depending upon qualifications. Reappointment is at the discretion of the Dean. Medical, dental, and life insurance group plans are available. For detailed position description, call the Department of Forest Resources (541/737-4951) or e-mail: foestr@ccmail.orst.edu. For more information, contact Gary Larson (541) 750-7396 or e-mail: larsong@fsl.orst.edu. Send application letter, resume, transcripts, and names and addresses of three references by August 27, 1999 (position open until filled), to: Dr. John D. Walstad, Department of Forest Resources, 280 Peavy Hall, Oregon State University, Corvallis, OR 97331-5703. OSU is an AA/EEO employer and has a policy of being responsive to dual career needs.



VACANCY

The Basic Science Department at the University of Health Sciences Antigua School of Medicine is seeking qualified individuals for a 4-week Visiting Faculty appointment from **August 18 – September 15, 1999** for Pathology, Biostatistics & Epidemiology, Embryology, Neuroanatomy and Anatomy; **November 22 – December 20, 1999** for Law & Ethics, Immunology, Pharmacology, Pathology, Physiology, Anatomy and Genetics; **January 27 – February 28, 2000** for Microbiology, Pathology, Neuroanatomy, Biochemistry and Histology; **April 27 – May 24, 2000** for Pharmacology, Community Health, Pathology, Physiology, Microbiology and Law & Ethics; **August 1 – 29, 2000** for Immunology, Pathology and Physiology; **November 27 – December 20, 2000** for Immunology and Pathology.

Applicants must have Ph.D. or M.D. or a combination of both Ph.D. and M.D. with teaching experience in the field.

The salary is **US\$4,000.00** for the 4-week period with round trip airfare and accommodation in one of our guest houses at the campus.

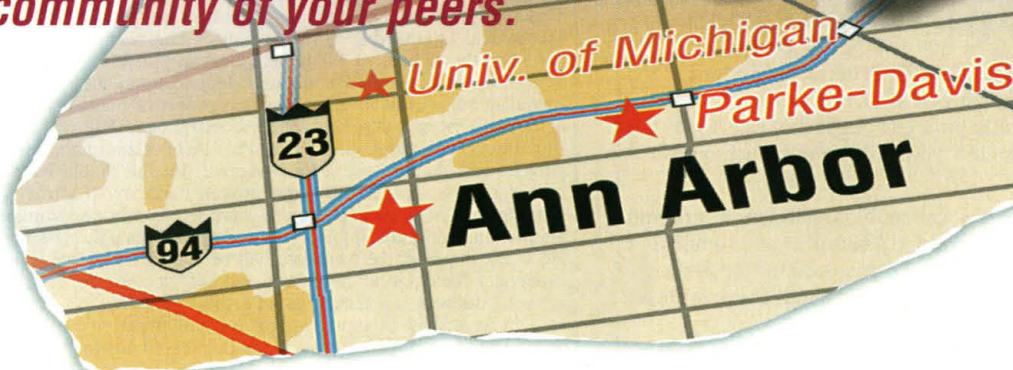
Send C.V. to:

The Search Committee
UHSA School of Medicine
Dowhill Campus, Picadilly
Box 510, St. John's, Antigua
TEL: (268) 460-1391
FAX: (268) 460-1477
E-Mail: (1) fmcp@uhsa.edu.ag
(2) uhsc@candw.ag

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PATHOLOGY AND EXPERIMENTAL TOXICOLOGY

Scientist/Sr. Scientist

Job Code: RJB-99598SC

The qualified individual will advance the state of data exchange between Toxicology and contract laboratories and pharmaceutical partners. The ultimate goal is to ensure real-time, validated access to data with capabilities to manipulate, analyze, and report this data using current/future systems. In addition, you will work closely with management, study directors, and IT support staff and their counterparts at CROs to implement these advancements. This position will also involve study director/contract study monitor responsibilities.

To qualify, you must have a PhD in Toxicology or closely related field, and 1-4 years of postgraduate work in the field of Toxicology. Study Director experience with pharmaceutical and/or contract research organization, experience with collection and analysis systems, and thorough understanding of US FDA GLP regulations, computer validation

requirements, and 21CFR Part II requirements are preferred. This position requires excellent written and oral communication skills.

MOLECULAR BIOLOGY

Sr. Assistant Scientist/ Associate Scientist

Job Code: CJM-99245SC

The qualified individual will assist with biochemical, molecular biology and cell biology research in developing new CNS drug targets and delineating drug mechanisms. Important responsibilities include performing enzyme, transport and binding assays, DNA cloning, protein expression, tissue culture, HPLC, data analysis and general lab maintenance.

This position requires a BS degree in Biochemistry or a related field and 4-6 years of experience, or an MS degree with 1-2 years of experience.

NEUROSCIENCE THERAPEUTICS

Associate Scientist

Job Code: CJM-99539SC

The qualified individual will develop and apply cell-based assays in the discovery of novel therapeutics for psychiatric disorders, as well as the assessment of drug activity in cells. To qualify, you must have a BS/MS degree and 3-6 years of experience. Basic skills in receptor pharmacology, molecular biology, and biochemistry, and experience in cell culture are preferred. Experience in high throughput screening (i.e. SPA ELISA, enzyme assays) is a plus.

CARDIOVASCULAR THERAPEUTICS

Postdoctoral Research Fellowship

Job Code: RJB-996103SC

The qualified individual will study mechanisms of angiogenesis/revascularization in physiological and pathological situations, play an active part in characterizing animal models, and be involved in the implementation of related cellular biochemical and molecular methods. A recent PhD in experimental pathology/physiology or related field with strong enthusiasm in scientific research is necessary. Previous expertise in cardiovascular biology (publications), gene expression, and gene transfer is desirable.

BIOINFORMATICS RESEARCH

Postdoctoral Fellow

Job Code: CJMMJSC

In collaboration with therapeutic groups, the qualified individual will mine genomic databases to support drug discovery, as well as provide both hands-on experience using the tools and databases relevant to the field of bioinformatics, and exposure to an industrial setting. To qualify, you must have a PhD in Biology, Chemistry, Genetics, or a related field. Experience analyzing protein and nucleic acid sequences, and working knowledge of bioinformatics tools (ex. GCG, BLAST) and Perl would be beneficial.

We offer competitive salaries, outstanding benefits, and an environment that's conducive to professional growth. We have the above opportunities in ANN ARBOR, MI. For consideration, please forward your resume with **Job Code**, to: **Parke-Davis, Resume Processing Center, P.O. Box 92242, Los Angeles, CA 90009-2242. Fax: 310-337-3367, E-mail: parkedavis@isearch.com.**

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Novagen Inc. specializes in molecular biology tools for the life sciences research marketplace. Our broad product offering includes protein expression systems, PCR cloning systems, and many other advanced research technologies. The following opportunities exist in our state-of-the-art Madison, WI facility:

Sr. R&D Scientist: Eukaryotic Expression Systems

This position requires a Ph.D. + 2 years' or an MS + 5 years' relevant experience. Extensive eukaryotic expression systems experience is essential. Strong knowledge of factors that influence protein expression is required, along with a solid background in basic molecular biology techniques. Previous experience with the design, construction and testing of plasmid and/or virus-based eukaryotic vectors is strongly preferred. (Job Code SRDS)

Technical Writer

This individual will write and edit product technical protocols and various marketing pieces. The position requires a BS degree or equivalent. Experience in production of graphics using Photoshop is highly desirable. Qualified candidates will also possess demonstrated scientific writing skills and a molecular biology background that includes relevant laboratory and marketing experience. Proficiency in MS Word is a must. (Job Code TW)

Novagen offers competitive salaries and excellent benefits within a pleasant and productive work environment. Please send resume and cover letter including job code to: **Novagen, Inc., 601 Science Dr., Madison, WI 53711 or fax to: 608-238-1388.** Equal Opportunity Employer.

Position Vacancy Announcement

Fisheries Scientist (Assistant/Associate/Senior Scientist)

Great Lakes WATER Institute

University of Wisconsin System/University of Wisconsin-Milwaukee (UWS/UWM)

The UWS/UWM Wisconsin Aquatic Technology and Environmental Research (WATER) Institute, in cooperation with the Wisconsin Department of Natural Resources (WDNR), seeks a Fisheries Scientist to fill a full time, tenure track research position within the Institute.

The WATER Institute is looking for an outstanding fisheries scientist with a demonstrated record of funded research who will pursue a state-of-the-art research program, with an active field component in the Great Lakes, in some or all of the following areas: fisheries population dynamics, fisheries biology, ecology, ichthyology, and biological/chemical/physical interactions.

The incumbent is expected to interact in a highly interdisciplinary, team oriented environment and to develop partnerships with the WDNR through the development of research that is responsive to fisheries management needs of the agency on Lake Michigan, Green Bay, and Lake Superior. The incumbent also is expected to supervise advanced undergraduate/graduate students and postdoctoral scientists, and to participate actively in the communication of research findings to the scientific and regulatory community as well as the public.

The WATER Institute provides outstanding opportunities for the pursuit of global aquatic research, education, and outreach programs, with an emphasis on the Great Lakes region. The Institute serves as the home of the UWM Center for Great Lakes Studies, the NIEHS Marine and Freshwater Biomedical Sciences Center, the UWM Aquaculture Center, the Lake Michigan Fisheries Management and Law Enforcement units of the WDNR, and the Wisconsin Sea Grant Regional Advisory Services. Additional information about the WATER Institute can be found at <http://www.uwm.edu/Dept/GLWI/>.

Qualifications: Ph.D. in a relevant field and experience at or beyond the postdoctoral level.

Compensation and Appointment: Salary commensurate with qualifications and experience; appointment is on an academic year basis and includes excellent fringe benefits.

Application: Applicants should submit a letter of application, resume or vitae, and the names, addresses and phone numbers of 3 references. Screening of all candidates will begin on 1 September and continue until a qualified candidate is chosen. Please visit our WEBSITE (above) for further information on the status of the search. Applications should be sent to: **Chair, Screening Committee, Fisheries Scientist, UWS/UWM WATER Institute, 600 E. Greenfield Ave., Milwaukee, WI 53204. Ph: 414-382-1700 Fax: 414-382-1705.**

Minorities and members of under-represented groups are encouraged to apply. EOE/AA/M/F/H/V

Science

ASSOCIATE OR SENIOR EDITOR

Science is soliciting applications for either an Associate or Senior Editor. We seek applicants with a broad range of interests and research experience in the biological sciences. Scientists with knowledge of molecular biology or virology are particularly encouraged to apply. Applicants for Associate Editor should have two or more years post-doctoral experience and multiple publications, and show a breadth of knowledge of cutting-edge research in several fields. Applicants for Senior Editor should have an additional minimum of five years professional experience as a researcher or editor. Responsibilities include managing the review, selection, and editing of manuscripts; solicitation of Review and Perspective pieces; and fostering contacts and communication with the scientific community. The position will be filled in either our Cambridge UK or Washington DC offices.

For all positions, please submit a cover letter describing qualifications and salary requirements, resumé, and contact information for three or more references to:

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

Biotechnology

Senior Scientist Molecular Pharmacology



ISIS Pharmaceuticals, located in North Coastal San Diego County, is engaged in the discovery and development of novel human therapeutic compounds. The success of our antisense technology has resulted in recent FDA approval of our drug Vitravene™ for AIDS-related blindness.

We now have a position available for a Senior Scientist in Molecular Pharmacology to join a group participating in the therapeutic application of antisense technology with particular emphasis on metabolic disease. The qualified applicant will have a Ph.D. (or equivalent), post-doctoral training, and 2+ years additional experience in molecular pharmacology and signal transduction research. Expertise in the pharmacology of metabolic disease is strongly desired.

Please visit our web site at www.isip.com for information on opportunities for BS/MS Scientists in Drug Screening, Oligonucleotide Synthesis, as well as additional positions in Molecular Pharmacology.

ISIS offers competitive salaries and excellent benefits. Please send resume to: **ISIS Pharmaceuticals, Code 334, 2292 Faraday Ave., Carlsbad, CA 92008. Fax: (760) 603-2700. Website: www.isip.com** Principals only. No phone calls please. EOE.



ISIS PHARMACEUTICALS

POSITIONS OPEN

ASSISTANT PROFESSORS OF MICROBIOLOGY THREE TENURE-TRACK POSITIONS Department of Microbiology University of Washington School of Medicine Seattle

The Department of Microbiology is seeking to significantly expand its research programs in three major areas of investigation: (i) microbial (prokaryotic/eukaryotic)-host interactions; (ii) virology/viral immunology; and (iii) bioinformatics/mathematical biology. We are seeking individuals at the Assistant Professor level who will develop well-funded, active, independent research programs. Higher rank appointments will be considered under exceptional circumstances. The successful candidate will join a multidisciplinary department focusing on molecular and genetic aspects of infectious diseases, host-pathogen interactions, microbial physiology, and biodiversity. The successful candidate will also participate in teaching at one or more of the undergraduate, graduate, and medical school levels. Applicants should possess a Ph.D. or M.D. degree and have at least two years of postdoctoral experience. Applicants should submit curriculum vitae, selected reprints, names and addresses of four references, and statement of research interests to: **Prof. Michael G. Katze, Chairman of the Search Committee, Department of Microbiology, Box 357242, School of Medicine, University of Washington, Seattle, WA 98195-7242.** Deadline for applications is October 1, 1999.

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

The Cardiovascular Research Institute in the Department of Surgery at the University of Louisville has a full-time faculty position at the **ASSISTANT/ASSOCIATE PROFESSOR** level effective November 1, 1999. The successful candidate will join a multidisciplinary team with expertise in surgery, physiology, biomedical engineering, and molecular biology. We seek a Molecular/Cell Biologist to coordinate molecular studies of myocardial dysfunction observed following cardiac surgery (coronary artery bypass, partial left ventriculectomy, ventricular assist devices, and transplantation), with a view toward adjunctive gene therapy. Experience with gene therapy and transgenic models a plus. Candidates should possess a strong publication record and ability to secure extramural funding. Please submit curriculum vitae, three letters of reference, a statement of research experience, and a summary of research objectives to: **Hiram C. Polk, Jr., M.D., Chairman and Professor, Department of Surgery, and Laman A. Gray, Jr., M.D., Director, Division of Thoracic and Cardiovascular Surgery, Department of Surgery, University of Louisville, Louisville, KY 40292.** Application deadline is August 16, 1999. *The University of Louisville is an Equal Opportunity/Affirmative Action Employer.*

Molecular biology/acute lung injury. McGuire Research Institute and the Medical College of Virginia at Virginia Commonwealth University seek a candidate to fill a full-time **JUNIOR FACULTY** basic research position to begin immediately. Ph.D. (or equivalent) required. Appointment (up to Assistant Professor) and salary (range, \$40,000 to \$60,000 per year) commensurate with experience and accomplishment, with support for candidate to pursue independent funding, including VA Research Center Scientist track. Initial projects will focus on cytoskeletal changes in the pulmonary microvascular endothelium induced by protein kinase C activation. Experience with Western and Northern analysis as well as confocal microscopy recommended. Applications accepted until position fills. Cover letter, curriculum vitae, and names of three references to: **Thomas J. Ferro, M.D., Associate Professor and Chief, Medical Service (111E), McGuire VA Medical Center, 1201 Broad Rock Boulevard, Richmond, VA 23249.** Telephone: 804-675-5111; FAX: 804-675-5453. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

Colorado State University

TENURE-TRACK ASSISTANT PROFESSOR ANIMAL DEVELOPMENT

The Biology Department invites applications from Biologists using molecular approaches to animal development. A Ph.D. and postdoctoral experience are required. The successful candidate is expected to develop an externally funded research program and to participate in undergraduate and graduate education.

To receive full consideration, send a letter stating teaching and research interests, a curriculum vitae, letters from at least three references (sent separately), and up to three publications to: **Development Search Committee, Department of Biology, Colorado State University, Fort Collins, CO 80523** by 1 October 1999.

CSU is an Affirmative Action/Equal Opportunity Employer. Office of Equal Opportunity, 101 Student Services.

ASSISTANT PROFESSOR

The Department of Biochemistry and Biophysics of Oregon State University invites applications for a tenure-track faculty position, with specialization in vertebrate cell culture and cell signaling processes. The appointee will serve also as Director of the Environmental Health Sciences Center Cell Culture Facility. The appointee is expected to develop an active, extramurally funded research program and to participate in the department's teaching program. The department has 12 full-time and three adjunct faculty members, occupies 30,000 square feet of space completed in 1992, and has a strong record of peer-reviewed research funding and publication. The Environmental Health Sciences Center has been funded for more than 30 years by an NIEHS center grant and coordinates research in multiple areas of environmental health sciences.

Applicants must hold a Ph.D. or comparable degree and postdoctoral research experience in biochemistry, molecular biology, cell biology, or a closely related area. Each application should include a letter expressing interest in this opportunity, a curriculum vitae, a concise description of research plans, and three letters of reference sent to: **Dr. Michael Schimerlik, Search Committee Chair, Department of Biochemistry and Biophysics, Oregon State University, Corvallis, OR 97331-7305.**

For full consideration, applications should be received by September 15, 1999, but applications will be accepted until the position is filled. *Oregon State University is an Affirmative Action/Equal Opportunity Employer and has a policy of being responsive to dual-career couples.*

CHEMOPREVENTION FACULTY POSITION DARTMOUTH MEDICAL SCHOOL

The Department of Pharmacology and Toxicology seeks applicants for a tenure-track position at the level of **ASSISTANT/ASSOCIATE PROFESSOR**. We are interested in candidates with an exciting research program in all areas of chemoprevention (such as neurodegenerative or neoplastic diseases). The successful candidate will join a department with research expertise in many areas of cellular and molecular pharmacology and toxicology. Please visit our website: <http://www.dartmouth.edu/dms/pharmtox> for further details. Candidates should have a Ph.D. and/or M.D. degree(s) and a productive academic record. Review of applicants will begin October 1, 1999.

Submit curriculum vitae, a statement of research interests and accomplishments, and names of at least three references to:

**Dr. Michael B. Sporn
Department of Pharmacology and Toxicology
Dartmouth Medical School
7650 Remsen
Hanover, NH 03755**

Dartmouth, an Equal Opportunity/Affirmative Action Employer, strongly encourages applications from women and minority candidates.

POSITIONS OPEN

FACULTY OF PHARMACY UNIVERSITY OF TORONTO

Applications are sought for a full-time tenure-track **ASSISTANT PROFESSOR** position in the Faculty of Pharmacy. Candidates with a background in medicinal chemistry are particularly encouraged to apply. The successful candidate is likely to be working in an area such as macromolecular chemistry, structural analysis of macromolecules, molecular modeling, and structural determinants of drug binding. The selection will be based on excellence in teaching and on the quality and nature of recent and intended research. The successful candidate must establish an independent, externally funded research program, participate in the supervision of graduate students, and have a strong commitment to teaching undergraduate and graduate students.

The successful candidate must have a Ph.D. degree and relevant postdoctoral experience. Applicants will be considered by the faculty, beginning September 1, 1999.

The University of Toronto and its affiliated institutions maintain a strong presence on the physical, biological, and medical sciences. Interdepartmental collaboration is encouraged, and such activities are supported at the graduate level through cross-appointments, joint courses, and multidisciplinary programs.

Applicants should submit a current curriculum vitae, reprints of important publications, an outline of future research interests, and arrange to have three letters of reference sent to: **Dr. K. Wayne Hindmarsh, Dean, Faculty of Pharmacy, University of Toronto, 19 Russell Street, Toronto, Ontario M5S 2S2 Canada.** Telephone: 416-978-2880; FAX: 416-978-8511; e-mail: wayne.hindmarsh@utoronto.ca.

The University of Toronto is an Employee Equity Employer. Non-Canadians will be considered. Also in accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

ASSOCIATE SCIENTIST. Participate as member of high-throughput DNA sequencing team; responsible for rapid, high-throughput purification and quantization of sequencing-quality DNA; prepare DNA sequencing reactions by either JPCR or non-amplified techniques; operate and maintain automated DNA sequencing equipment; assist with recombinant DNA techniques; assist with continued automation and updating of DNA sequencing technology at sequence acquisition. Master's degree in biology, crop science, or plant-related field; two years of experience in the job offered or two years of experience as Research Assistant—DNA and/or plant science research. Two years of experience with assembly-based computer programs such as UNIX, VAX, and other DNA sequencing computer software with DNA sequencing equipment, performing computer-assisted DNA sequencing manipulation and analysis; and performing plant science research. \$42,504 per year. 9:00 a.m. to 5:00 p.m., 40 hours per week. Résumés including social security number, Job Order number NC3009291, and DOT code 041.061-030 must be submitted to nearest Job Service office or: **Job Service, 1105 Briggs Avenue, Durham, NC 27703.**

YALE UNIVERSITY DEPARTMENT OF CHEMISTRY

The Department of Chemistry, Yale University, invites applications for a position at the **ASSISTANT PROFESSOR** level to commence fall 2000. We seek creative Teacher-Scholars who show promise for developing outstanding research programs in the broad fields of inorganic, theoretical, and biophysical chemistry. Applicants should send curriculum vitae and a statement of research plans and arrange for the submission of three letters of recommendation. All materials should be received by 22 October 1999. Send applications to: **Professor Andrew Hamilton, Chair, Junior Faculty Search Committee, P.O. Box 208107, Yale University, New Haven, CT 06520-8107.** *Yale University is an Equal Opportunity/Affirmative Action Employer.*

**Faculty Position
Maize Functional Genomics
University of Missouri–Columbia**

The successful candidate is expected to conduct a vigorous, extramurally funded research program applying genomics to understanding how gene sequences, combinations, and expression patterns relate to development, variation, and phenotypes in maize.

Excellence in teaching at the graduate and undergraduate levels is required. The successful candidate will participate in the vibrant Maize Biology Research Group which is part of the rapidly expanding plant genomic initiative at the University of Missouri. The position is provided with a generous start-up package and will be located in a newly renovated laboratory designed specifically for genome analysis. Appointment at assistant (tenure track)/associate/full professor levels will be considered. College/departmental affiliation will be based on the program and preferences of the successful candidate.

Target date is Oct. 15, 1999. Interested candidates should send a letter including both research and teaching philosophy, curriculum vitae and contact information of three references to:

Dr. Joe Polacco
Chair of Maize Functional Genomics Search
117 Schweitzer Hall
University of Missouri
Columbia, MO 65211

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Action/ADA Institution*



**Department
of Chemistry**

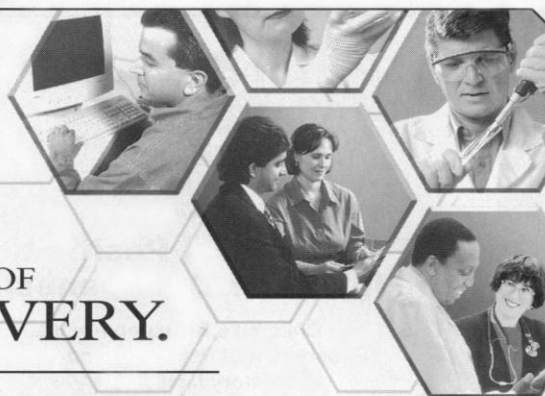
Smith College invites applications for a number of full-time tenure-track positions, rank open, in any field of chemistry, August 2000-2004. The positions must cover a range of areas within chemistry, and candidates must be able to teach both introductory courses and advanced courses in their areas of expertise. Outstanding individuals with a desire to teach at a liberal arts college for women and a commitment to undergraduate research should apply by sending a CV, transcripts, a description of teaching philosophy and research plans, and 3 letters of recommendation to **Professor R. G. Linck, Chemistry Department, Smith College, Northampton, MA 01063**. Application review begins 9/1/99. Smith College is an equal opportunity employer encouraging excellence through diversity.

Smith College

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What if you could be on the threshold of some of the greatest scientific advances of our time, developing new treatments for cancer, AIDS and other serious diseases? At Agouron Pharmaceuticals, you can. Agouron is a fully integrated pharmaceutical company in San Diego, CA, providing opportunities from Research to Commercial Affairs. We encourage and promote creativity, innovation and leadership in each individual. If you enjoy both autonomy and collaboration in a dynamic environment, consider joining our team.

*Access our Website for information about openings
in many other areas at www.agouron.com.*

We seek innovative scientists at the PhD level in Pharmacology or related discipline. The candidates should be team oriented with good written and oral communication skills as well as organizational skills. The desire and enthusiasm to work in multidisciplinary teams is a must.

**RESEARCH SCIENTIST,
RESEARCH PHARMACOLOGY**

We seek a PhD level scientist in Cell Biology or related field with knowledge and experience in Cell Cycle and Checkpoint control to join our team in discovering novel cancer therapies. The overall responsibility of the successful candidate includes providing cell-based and in vivo pharmacology support for the discovery of new therapies for cancer. The candidate should have experience in mammalian cell based assays and assay development. Experience with in vivo tumor models would be a plus. Code 125/KL

**RESEARCH SCIENTIST,
RESEARCH PHARMACOLOGY**

We seek an individual with up to 5 years of postdoctoral or industrial experience to join a team focused on developing novel antiangiogenic therapies for oncology and other diseases. Requires hands-on experience with in vivo pre-clinical tumor biology, pharmacokinetics, and cellular-based oncology models. Experience with angiogenesis assays, endothelial cell biology, non-invasive cellular imaging, and immunohistochemistry a plus. Code 125/DS

Agouron is a wholly owned subsidiary of Warner-Lambert. For more information regarding our parent company, please visit us at: www.warner-lambert.com.



If you have a desire to deliver promising therapeutics to the people who need them most, submit your resume referencing code to: Agouron Pharmaceuticals, Inc., Code (see above), 3301 N. Torrey Pines Ct., La Jolla, CA 92037; email: jobs@agouron.com. EOE

www.agouron.com



**St. Jude Children's
Research Hospital**
ALSAC - Danny Thomas, Founder

Postdoctoral Position In Molecular Oncogenesis

**St. Jude Children's Research Hospital
Department of Pathology and
Laboratory Medicine**

NIH funded postdoctoral positions are available immediately to investigate the role of the AML1/CBF β transcription factor complex in normal hematopoiesis and leukemia. Studies will focus on defining the biologic function of AML1 in the establishment of fetal liver-derived hematopoiesis, and on investigating the mechanisms responsible for cellular transformation by the t(8;21) and t(12;21)-encoded AML1 chimeric products. These studies will be performed in a highly interactive environment that is housed in a state-of-the-art facility. Qualified candidates should possess either a Ph.D. and/or M.D. and have prior experience in molecular biology. Interested applicants should submit a statement of research interest, curriculum vitae and the names of three references to: **Dr. James R. Downing, Department of Pathology and Laboratory Medicine, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105. E-mail: jim.downing@stjude.org**

An Equal Opportunity/Affirmative Action Employer

TWO CURATOR POSITIONS CURATOR OF INVERTEBRATE PALEONTOLOGY & ASSISTANT CURATOR OF MAMMALOLOGY

The Natural History Museum of Los Angeles County has openings for a Curator (any level) of Invertebrate Paleontology and a Curator (Assistant preferred) of Mammalogy to direct its research and collections programs in these fields.

The Museum has important world-class holdings in both disciplines. Information on the museum and its collection can be found at: <http://www.nhm.org>

We seek individuals who will develop a strong, internationally recognized, collections-based research program. The successful candidates will be expected to establish a field program, contribute to the Museum's public programs (education and exhibits), and become successful in obtaining grants to assist in the support of their research and the museum's collection. A Ph.D. in the appropriate discipline is required.

Applicants should send a curriculum vitae, statement of interest, and the names and addresses of three references by August 31, 1999 to: **Dr. John E. Heyning, Natural History Museum of Los Angeles County, 900 Exposition Boulevard, Los Angeles, CA 90007; Fax: (213) 747-0204.** The Museum is an equal opportunity employer.

NATURAL HISTORY MUSEUM

POSITIONS OPEN

AQUATIC ECOLOGIST ASSISTANT OR ASSOCIATE PROFESSOR APPALACHIAN LABORATORY

The Appalachian Laboratory of the University of Maryland Center for Environmental Science (UMCES) solicits applications for a faculty position as Assistant or Associate Professor to enhance its research initiative in landscape and watershed ecology. We are seeking an Ecologist interested in linkages between terrestrial and aquatic ecosystems. Possible areas of interest and expertise may include population or community ecology of freshwater aquatic or wetland species; structure and function of riparian systems; instream ecosystem processes; or impacts of land-use change on upland aquatic and riparian ecosystems.

It is expected that candidates will have completed a Ph.D. by the time of appointment. The successful candidate will be expected to collaborate with other UMCES faculty members in multidisciplinary research focused on the Chesapeake Bay watershed and generate external funding to support a vigorous research program. While the main responsibility of this position is to conduct research, UMCES faculty members also participate in graduate education and practical application of science.

Review of applications will begin October 15, 1999; however, the position will remain open until it has been filled. Applicants should send a curriculum vitae, a statement of research and teaching interests, selected reprints, and a list of four references (name, address, telephone, FAX, and e-mail) to: **Robert H. Gardner, Chair of the Faculty Search Committee, Appalachian Laboratory, University of Maryland Center for Environmental Science, Frostburg, MD 21532. Telephone: 301-689-7125; FAX: 301-689-7200; e-mail: gardner@al.umces.edu.**

UMCES is an Affirmative Action/Equal Opportunity Employer. Women and minorities are strongly encouraged to apply.

POSITIONS OPEN

RESEARCH ASSOCIATE

Genetics engineering of corn/ or other cereal species, molecular analysis of transformance. Ph.D. in any areas of biological sciences with record of publications in the area of genetic engineering of corn and/ or other cereal species. Applicants should send a curriculum vitae and list of publications to: **Dr. Mariam Sticklen, 201 Center for Integrated Plant Systems, Michigan State University, East Lansing, MI 48824-1311. Telephone: 517-353-9140; e-mail: sticklen1@pilot.msu.edu.** MSU is an Affirmative Action/Equal Opportunity Institution.

LEAD SCIENTIST FOR BIO-DERIVED MATERIALS AND MOLECULAR BIOLOGY NAVAL RESEARCH LABORATORY

The Center for Bio/Molecular Science and Engineering (CBMSE) at the Naval Research Laboratory in Washington, D.C. is a recognized leader in the research, development, and application of biologically derived materials. We seek to expand our program through the initiation of projects in which powerful molecular biological tools are used to forge novel bio-derived materials. CBMSE provides a stimulating, highly cross-disciplinary research and development environment with connections to industrial academic, and other government/military research partners. Basic requirements: Ph.D. or equivalent plus at least five years of additional experience, interdisciplinary collaborations, strong publications/patents demonstrating scientific impact, and proven ability to obtain external funding. Salary \$75,000 to \$90,000. E-mail résumé and names of three references to e-mail: **fligler@cbmse.nrl.navy.mil.** NRL is an Equal Opportunity Employer.

POSITIONS OPEN

LABORATORY SCIENTISTS in pediatric hematology-oncology. The Division of Hematology-Oncology, Department of Pediatrics, University of Texas Southwestern Medical Center at Dallas is seeking two full-time faculty members at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level who will be charged with developing an outstanding basic research program involving the initiation, progression, or control of childhood malignancy. Candidates should have an M.D. or M.D.-Ph.D. Successful candidates will spend 80 to 90 percent of their time in laboratory research, with the remainder devoted to clinical responsibilities and teaching. Generous funds, including the possibility of an Endowed Chair, are available to support the development or expansion of an independent research program at one of the nation's largest pediatric cancer centers. The positions are available immediately. For further information, contact: **George R. Buchanan, M.D., Department of Pediatrics, University of Texas Southwestern, 5323 Harry Hines Boulevard, Dallas, TX 75235-9063. Telephone: 214-648-8594; FAX: 214-648-3122.** The University of Texas Southwestern Medical Center at Dallas is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION UNIVERSITY OF COLORADO, BOULDER

Available immediately, to study molecular basis of oxygen sensing and role of heme proteins in oxygen-regulated gene expression in eukaryotes. Candidates should have a Ph.D. in biochemistry or molecular biology and experience in gene expression. Knowledge of recombinant DNA techniques, biochemistry of heme proteins, or yeast molecular genetics desired. Send curriculum vitae along with names of three references to: **Dr. R. O. Poyton, Department of Molecular, Cellular, and Developmental Biology, University of Colorado, Boulder, CO 80309. E-mail: poyton@spot.colorado.edu.**

NATIONAL INSTITUTES OF HEALTH

NATIONAL CENTER FOR RESEARCH RESOURCES

Health Scientist Administrator Veterinary Medical Officer

The National Center for Research Resources invites applications for the position of Health Scientist Administrator/Veterinary Medical Officer, NCRR, NIH. The incumbent of this position will be responsible for providing technical leadership and scientific guidance in the planning, development, evaluation, and administration of resource grants and contracts for the Comparative Medicine area of the NCRR. Some of the major professional duties the incumbent performs include: 1) negotiations with officials of the nation's universities and research institutions; 2) interpretation of policies and procedures; 3) identification of research animal resource needs; 4) advisor to grant officials concerning the development of plans for research animal resources; and 5) performs various other related scientific and administrative functions, including participation with senior scientists, department officials and academic deans in the development of research resource programs involving inter-university and institutional programs. Incumbent is required to be knowledgeable in various laboratory animal sciences, including genetics, molecular biology, and other relevant scientific areas.

Applicants are encouraged to address the following knowledge, skills, and abilities: (1) Professional knowledge of principles, theories and practices applicable to broad aspects of health-related research using animals; (2) Ability to plan and manage major animal-oriented research programs involving complex administrative/management issues; (3) Ability to synthesize information and to write clearly, logically and persuasively on complex scientific topics for a diverse scientific and nonscientific audience; (4) Ability to meet and interact with scientific health professionals and members of the lay community; (5) Ability to organize, plan and manage group meetings; (6) Knowledge of Federal grants and contract procedures and general administrative management processes. This is a permanent full-time position with a salary range of \$68,570 to \$89,142 per annum commensurate with qualifications. A recruitment bonus of up to 25% of base pay may be available to a non-federal selectee for this position. A relocation bonus of up to 25% of base pay (subject to approval) may be available to a permanent Federal employee who must relocate to accept this position.

Send applications to **Ms. Erin Bandak, National Institutes of Health, National Center for Research Resources (NCRR), 9000 Rockville Pike MSC 2131, Building 31, Room 3B43, Bethesda, MD 20892-2131**. For application forms and a copy of the full announcement contact **Ms. Bandak at NCRR on (301) 496-1524**. Deadline for applications is August 16.

Public Health Service Commissioned Officers interested in performing the duties of the position within the Commissioned Corps may submit a resume to the above address.

- Applicants with access to Internet's World Wide Web may browse the NCRR Home Page to view the full text vacancy announcement at <http://www.nih.ncrr.gov>

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Your strong background in science, possibly Biotechnology or Chemistry, coupled with your technical proficiency, merges well with your varied, practical knowledge of biomedical and biotechnology information sources and products. Along with an understanding of information searching techniques, methods, and strategies, you may have particular skills in searching biotechnology, genetic, and protein information. The ability to prioritize, review, evaluate, analyze, and present information are areas you're secure in.

SmithKline Beecham is dedicated to an innovative workplace and supports you with career long opportunities and learning. We offer competitive benefits and compensation package. To be considered for this King of Prussia, PA, opportunity, please forward your scannable resume to: SmithKline Beecham, c/o National Resume Processing, Ad Code: 990663C, P.O. Box 1070, Burlington, MA 01803. Indicating Ad Code is essential. For a full listing of current opportunities, or to submit a resume online, visit our website at www.sb.com/careers

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POSITIONS OPEN

The University of Florida (UF) College of Medicine is seeking nominations and applications for the position of **PROFESSOR AND CHAIR** of the Department of Neurology. The Chair will be responsible for the management of the department including faculty recruitment and development, undergraduate and graduate medical education, fiscal affairs, clinical programs, and research. The Chair will also provide an effective interface between the department, the UF Brain Institute, and other research and clinical centers. Applicants should have an M.D. or M.D.-Ph.D. degree and demonstrated accomplishments in research, education, clinical service, and administration. Candidates should also have proven leadership capabilities and excellent interpersonal skills. Applicants should submit a curriculum vitae and three letters of recommendation to: **William A. Friedman, M.D., Chair, Search Committee, Department of Neurological Surgery, University of Florida College of Medicine, P.O. Box 100265, Gainesville, FL 32610-0265.** The closing date for the position is October 1, 1999, with an anticipated starting date on or after July 1, 2000. Salary will be commensurate with experience. *The University of Florida is an Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSISTANT PROFESSOR UNIVERSITY OF PENNSYLVANIA

The Department of Physiology seeks a highly qualified Physiologist for a position as Research Assistant Professor (non-tenure-track) for a team conducting research in the role of actin and actin-binding proteins in cell motility, endocytosis, and cytokinesis. Candidates should have a Ph.D., four years of postdoctoral training required, and demonstrated ability to perform independent research and obtain extramural funding. Expertise in state-of-the-art cell biological and biochemical techniques is required.

This is a three-year position and the successful applicant will be expected to obtain independent support. Submit a curriculum vitae, description of research plans, reprints of publications, and three letters of reference to: **Ellen McCairns Martin, Physiology, 3700 Hamilton Walk, Richards 405B, Philadelphia, PA 19104-6085** by September 1, 1999. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

Lymphoma immunobiology FACULTY POSITION. The Department of Internal Medicine at the University of Nebraska Medical Center (UNMC) is seeking Ph.D., M.D., or M.D.-Ph.D. applicants for a **TENURE-TRACK** position in the area of lymphoma immunology and vaccine laboratory research. Academic rank and salary will depend upon qualifications. Successful applicants will be able to interact closely with clinical and translational researchers that are internationally recognized for lymphoma research. Opportunities for collaborations with other researchers at UNMC in immunobiology, molecular biology, and transplantation also exist. Applicants should send their curriculum vitae, names of three references, and a letter detailing their research goals to: **Julie M. Vose, M.D., Professor and Vice Chair, University of Nebraska Medical Center, Department of Internal Medicine, 983332 Nebraska Medical Center, Omaha, NE 68198-3332.** *UNMC is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

Kentucky. **PEDIATRIC SCIENTIST.** The Department of Pediatrics is recruiting a Pediatric Scientist (M.D., M.D.-Ph.D., or Ph.D.) to establish an extramurally funded laboratory research program. Our strengths and needs include cancer, molecular and biochemical genetics, neonatal lung development, cardiovascular development, and neuroscience. This is a tenure-track position with research endowment available to support tenure base. Suitable laboratory space and set-up funds will be identified. Candidates should contact: **Dr. Vipul N. Mankad, Chairman of Pediatrics, University of Kentucky Medical Center, 800 Rose Street, Lexington, KY 40536.** *Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR. The College of Veterinary Medicine at Mississippi State University is seeking nominations and applications for a tenure-track faculty position in immunology. Primary duty involves the conduct of mechanistically based immunology research within a minimum commitment of 70 percent to research. The successful candidate should have an established record or demonstrated potential in original research in immunology related to veterinary medicine and will be expected to continue or develop an active extramurally funded research program. The successful candidate is expected to use modern techniques to solve complicated research problems related to the immune response/system. Other responsibilities include teaching in the professional and/or graduate programs and college and university service. Candidates must be capable and willing to work cooperatively with other research scientists and students of other departments and divisions of the university. Required minimum qualifications: advanced training (Ph.D.) in immunology. Preferred qualifications: postdoctoral experience and previous work experience in immunology with relevance to food animal species, i.e., cattle, poultry, or channel catfish; D.V.M.; and Board certification in an appropriate specialty. Salary and academic rank are commensurate with training and experience. Please send letters of nomination or applications including curriculum vitae, transcripts, the names and addresses of three professional references, and a statement of career goals to: **Dr. A. Jerald Ainsworth, Director, Veterinary Medical Research, College of Veterinary Medicine, Box 9825, Mississippi State, MS 39762-9825.** Applications will be accepted until September 15, 1999, or until a suitable candidate is identified. *Mississippi State University is an Affirmative Action/Equal Employment Opportunity Employer.*

RESEARCH ASSOCIATE SENIOR RESEARCH ASSOCIATE

Research Associate/Senior Research Associate position available immediately to study transcriptional regulation of the human glucocorticoid receptor gene in tissues of the hypothalamic-pituitary-adrenal axis. Position is in the laboratory of **Dr. Jeffrey Harmon**, Department of Pharmacology, Uniformed Services University of the Health Sciences, Bethesda, Maryland (e-mail: jharmon@usuhs.mil). Applicants should have a Ph.D. and extensive experience, and a record of significant publication in molecular biology, biochemistry, molecular endocrinology, or a closely related area. Send curriculum vitae and names of three references by August 21, 1999, to: **Dr. Jeffrey M. Harmon, Department of Pharmacology, Uniformed Services University of the Health Sciences, 4301 Jones Bridge Road, Bethesda, MD 20814.** *Affirmative Action/Equal Opportunity Employer. Applicant must be U.S. citizen or permanent resident.*

Announcing the Duke **POSTDOCTORAL FELLOWSHIPS** in molecular evolution and comparative genomics. We invite innovative, synthetic proposals from scientists of any nationality to carry out independent research in the Botany or Zoology Departments at Duke University. Research topics can include theoretical or empirical work in any area of molecular evolution. Applications should send a preferred starting date, curriculum vitae, research proposal, research summary, and two letters of reference to: **Cliff Cunningham, Zoology Department, Duke University, NC 27708-0325 USA.** Please visit website: www.molevol.duke.edu. *Duke University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS are available to investigate structure and function of membrane-bound enzymes/channels. Applicants should have Ph.D. and background in enzymology and molecular biology. Experience in channel analysis is desirable. Please mail or e-mail curriculum vitae with telephone numbers of three references to: **U. S. Rao, Ph.D., Department of Biochemistry and Molecular Biology, 984525, Nebraska Medical Center, Omaha, NE 68198-4525.** E-mail: usras@unmc.edu. *Equal Opportunity Employer/Minorities/Women.*

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY Medical College of Ohio

Applications are invited for a 12-month, tenure-track faculty position from individuals who possess a Doctoral degree, postdoctoral experience, and record of research productivity. The successful candidate is expected to develop an independent, extramurally funded research program and participate in teaching medical and M.S./Ph.D. students. We are particularly interested in applicants who use bacteria, fungi, or viruses to dissect and elucidate cellular and molecular pathways involved in microbial infection, as part of an expanded departmental focus on molecular pathogenesis. The Department is in a growth phase and is concurrently filling an Endowed Research Chair in immunology. Medical College of Ohio (MCO) is a state school with a modern campus. To learn more about the Department and MCO, visit our website: <http://www.mco.edu>.

Applicants should submit a statement of research goals with representative reprints, a curriculum vitae, and three letters of recommendation to: **Garry T. Cole, Ph.D., Chair, Department of Microbiology and Immunology, Medical College of Ohio, 3055 Arlington Avenue, Toledo, OH 43614-5806.** Applications should be received by October 1, 1999, although the search will continue until the position is filled. *Affirmative Action/Equal Opportunity Employer.*

CARDIOVASCULAR PHARMACOLOGIST DARTMOUTH MEDICAL SCHOOL

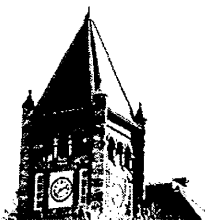
The Department of Pharmacology and Toxicology seeks applicants for a tenure-track position at the level of **ASSISTANT/ASSOCIATE PROFESSOR.** We are interested in candidates with an exciting research program in all areas of cardiovascular pharmacology, although preference will be given to individuals whose work emphasizes mechanisms of signal transduction in vascular development, disease, or angiogenesis. The successful candidate will join a department with research expertise in many areas of cellular and molecular pharmacology and toxicology. Please visit our website: <http://www.dartmouth.edu/dms/pharmtox> for further details. Candidates should have a Ph.D. and/or M.D. degree(s) and a productive academic record. Review of applicants will begin October 1, 1999.

Submit curriculum vitae, a statement of research interests and accomplishments, and names of at least three references to:

**Dr. Alan Eastman
Department of Pharmacology and Toxicology
Dartmouth Medical School
7650 Remsen
Hanover, NJ 03755**

Dartmouth, an Equal Opportunity/Affirmative Action Employer, strongly encourages applications from women and minority candidates.

HYDROLOGIST. The Institute of Pacific Islands Forestry, Pacific Southwest Research Station, USDA Forest Service, seeks a Hydrologist with training in wetland ecology to be based in Honolulu, Hawaii and to conduct research on the hydrology of mangrove swamps and freshwater forested wetlands. Most of the research will be conducted in Micronesia, but some may also be in Hawaii. This position is GS-11/12, with a salary range of \$37,744 to \$58,808 plus 25 percent cost-of-living allowance. Applicants must be U.S. citizens. A vacancy announcement that includes qualification requirements and application procedures is available on the USA Jobs website: www.usajobs.opm.gov and from: **Personnel Management, Pacific Southwest Research Station, P.O. Box 245, Berkeley, CA 94701.** Telephone: 510-559-6300; FAX: 510-559-6352; e-mail: pm/psw@fs.fed.us; Attn: PSW/DEMO-412-99. Questions regarding the position should be directed to: **Dr. James Allen, The Institute of Pacific Islands Forestry, Telephone: 808-522-8230; website: jallen/psw_ipif@fs.fed.us.** Deadline for applications is September 7, 1999. *USDA is an Equal Opportunity Employer.*



GENOMICS Hubbard Brothers Chair in the Biological Sciences

The University of New Hampshire invites applications and nominations for an endowed Professor of Genomics. We are looking for an individual with a distinguished record of scholarly activity, an internationally recognized program of sponsored research, and a commitment to excellence in education, to build vigorous interdisciplinary programs uniting our existing strengths with new technologies in genomic biology.

This position is supported by a \$5 million endowment and substantial startup funds. The successful candidate will join an appropriate department within the College of Life Science and Agriculture. The College is diverse, with Departments of Animal and Nutritional Sciences, Biochemistry and Molecular Biology, Microbiology, Natural Resources, Resource Economics and Development, Plant Biology and Zoology. Graduate degrees in Genetics are offered through an interdepartmental program involving 12 faculty from five departments.

The University is located one hour north of Boston on a semi-rural campus in the Seacoast region of New Hampshire. A public Land-, Sea- and Space-Grant research university, it is home to more than 10,000 undergraduate and 1,700 graduate students. Additional information about the University and its programs can be found at <http://unhinfo.unh.edu/>. Specific inquiries may be directed to: Dr. Thomas Kocher, Search Committee Chair, (603) 862-2115, email: Tom.Kocher@unh.edu.

UNH supports diversity among its faculty and strongly encourages women and minority candidates to apply for this position. Applicants should send a letter describing current and future research activities, names of three or more references, as well as a C.V. and copies of five relevant publications to: Genomics Search Committee, College of Life Science and Agriculture, Taylor Hall, University of New Hampshire, Durham, NH 03824. Review of applications will begin September 1, 1999 and will continue until a suitable individual is found.

GLOBAL OPPORTUNITIES



理化学研究所 脳科学総合研究センター

理研-MIT脳科学研究センターのチームリーダーの公募

理化学研究所脳科学総合研究センター（理研BSI）は、米国マサチューセッツ工科大学（MIT）との連携の拠点として、1998年10月より理研-MIT脳科学研究センター（センターディレクター：利根川 進MIT教授）をMITキャンパス内に設け、現在4人のチームリーダーがそれぞれシナプス形成過程、注意制御神経機構、条件的遺伝子操作、及び強化情動機能のテーマで研究を進めています。

このたび理研BSIでは、理研-MIT脳科学研究センターにおいて研究を行うチームリーダーを以下の要領で募集いたします。

1. 研究領域：神経生物学の基礎（現在のチームの研究と相補的であること）
2. 契約・待遇： 契約による任期雇用で能力・業績に応じた年俸制。
任期は3年間（多少の準備期間可）。研究費、研究設備等十分なサポートがなされるとともに、若干名のスタッフの雇用が可能です。なお、チームリーダーはMITの客員教授又は助教授を兼務します。
3. 選考方法等： 1) 書類審査及び面接・セミナー 2) 決定後理研BSIにおいて採用しその後理研-MIT脳科学研究センターへ派遣。
4. 着任時期： 1999年末～2000年初め頃
5. 提出書類： 1) 履歴書及び業績リスト（発表論文リスト、主要論文別刷5編） 2) 研究上の興味、これまでの研究内容、及び当研究センターにおける将来の研究計画の概要（2,000字以内） 3) 推薦者3名（氏名、連絡先）
6. 応募締切： 1999年9月15日（水）
7. 書類送付・問合せ先： 〒351-0198 埼玉県和光市広沢2-1
理化学研究所脳科学総合研究センター サーチ委員会(11)
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Executive Director Commission on Physical Sciences, Mathematics, and Applications

The National Research Council of The National Academies is seeking an Executive Director for the Commission on Physical Sciences, Mathematics, and Applications (CPSMA). CPSMA is broadly concerned with ensuring the health and progress of the physical and chemical sciences, the mathematical sciences, the space and planetary sciences, computer science and telecommunications and the utilization of scientific and technical information. In addition, CPSMA focuses on new directions for the physical and mathematical sciences and their applications to the nation's needs.

The Executive Director is a member of The National Academies' senior management team and is responsible for overseeing and coordinating the Commission's technical, financial, and administrative operations in compliance with institutional policy and contract/grant requirements; developing appropriate programmatic agendas and strategic priorities to achieve the Commission's objectives; identifying current and emerging issues and needs in the physical sciences, mathematics, and related fields and determining appropriate measures responsive to those issues and needs; providing administrative oversight of the Commission's boards and committees which conduct studies and other activities; and fostering collaboration with other NRC commissions and offices.

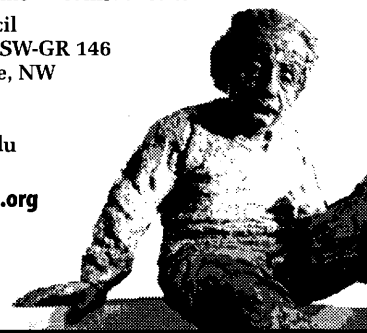
Requirements include a Ph.D. or equivalent in the physical sciences, mathematics, or science policy-related disciplines, and a minimum of 10 years of directly related experience demonstrating familiarity with public policy issues and ability to work with leaders of the physical science research and policy communities on scientific and technical issues of national importance, including applications of research developments to national needs. Management experience, excellent interpersonal skills, and communication skills, both written and oral, are also required. A demonstrated ability to interact effectively with potential sponsors and other government agencies is essential.

The National Research Council offers a generous salary and benefits package including paid relocation to the Washington, DC area. Please send resume in confidence to:

National Research Council
Human Resources, Attn: SW-GR 146
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Washington, DC 20418
Fax: (202) 334-1746
E-mail: ohrresum@nas.edu
EOE, M/F/D/V.

www.national-academies.org

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INSTITUTE OF MEDICINE



Advisers to the Nation™

POSITIONS OPEN

The Institute for International Studies at Stanford University announces a vacancy for a position as **SENIOR FELLOW** in the Institute in the area of international security with an emphasis on policy issues having an essential or important science and technology component. The position is in the Center for International Security And Cooperation (CISAC) of the Institute. In this position, the Senior Fellow will take over and/or create a program of research on current major policy questions in international security and cooperation involving science and technology. Examples include, but are not limited to, effects of weapons of mass destruction, and strategy and arms control concerning them; the roles of information technologies in international security; the roles of other new military technologies; space policies; the technology of peacekeeping. The Senior Fellow would also be expected to participate in a leading role in the Center's teaching program, through lecturing, course design, seminars, and, as appropriate, supervising graduate student research. The person sought for this position should have an outstanding record in scientific or engineering research and development, and extensive successful experience in making, advising on, and/or implementing policy. The research could have been carried out either in an academic or government or industrial setting. The policy experience will have been in the security area, preferably for the U.S. government or in advisory bodies to it. The person should combine a broad interest in international security with up-to-date understanding of at least one field of research and development relevant to security. Participation in and exposure to a broad array of scientific and technical questions as they affect security (such as can be obtained through membership in one of the relevant committees of one of the National Academies, or JASON, or one of the advisory committees to a relevant government agency) is highly desirable. The Senior Fellowship may be combined with an academic appointment in an appropriate department of the university. Send curriculum vitae and letter of application by October 15, 1999, to: **David Holloway, Institute for International Studies, Stanford University, Encina Hall, Stanford, CA 94305-6055.** *Stanford University is an Affirmative Action/Equal Opportunity Employer. Applications from women and minority candidates are especially encouraged.*

Coelacanth Corp. is a privately held biopharmaceutical company founded by **K. Barry Sharpless** dedicated to the acceleration of drug discovery through the use of both high-speed synthesis, novel chemical building blocks, and preclinical screening technologies.

We're seeking a self-motivated individual with good problem-solving, communication, and interpersonal skills to join the team of scientists in the Division of Preclinical Screening. This position requires a B.S. or M.S. level in biology, molecular biology, or related field, with a minimum of two to three years of industrial experience. Must be experienced in cell culture techniques, bioassays in 96-well plate formats, and enzyme assays. Must be able to plan, conduct, and evaluate experiments with minimum supervision. Will work in a team developing high-throughput assays for preclinical characterization of discovery compounds. Must have ability to work on multiple projects and maintain complete and accurate notebooks.

Salary is negotiable. Please submit résumé including salary history to:

279 Princeton-Hightstown Road
East Windsor, NJ 08520
FAX: 609-448-8299

POSTDOCTORAL POSITION

Postdoctoral position available to study HIV-1 integration at Harvard Medical School. Projects focus on the structure and function of HIV-1 preintegration complexes, and developing nonintegrating HIV-1 vectors for gene therapy. Applicants should send curriculum vitae and names of three references to: **Dr. Alan Engelman, Department of Cancer Immunology/AIDS, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115.** FAX: 617-632-3113. *Equal Opportunity Employer.*

POSITIONS OPEN



POSTDOCTORAL FELLOWSHIP. NIH-funded positions available immediately to study role of deregulated Hox gene expression in leukemia. The laboratory studies mechanisms of Hox gene regulation by the mixed lineage leukemia gene and bmi-1 using knockout and knock-in approaches, tissue culture-based functional assays, chromatin binding and modification assays, and laser confocal microscopy. *U.S. citizenship* and experience in molecular biology required. Applicants with a strong background in protein chemistry are particularly encouraged to apply. Send letter outlining research interests, curriculum vitae, and names of three references to: **Jay Hess, M.D., Ph.D., Department of Pathology and Laboratory Medicine, 6 Founders, Hospital of the University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104.**

ANATOMY LECTURER POSITION THE UNIVERSITY OF VERMONT COLLEGE OF MEDICINE

The Department of Anatomy and Neurobiology in the College of Medicine invites applications for a 12-month, University-funded, faculty-level Lecturer position. Duties include assistance in laboratory and lecture components of anatomy-based courses for medical students and allied health undergraduates, and shared responsibility for cadaver preparation and administration of the whole body donation program. Qualified candidates must have a minimum of a M.S. degree from a certified anatomy graduate program or a health-related graduate program that required gross and microscopic anatomy courses. Preference will be given to individuals with experience in cadaver preservation and/or anatomy teaching. Additional desirable qualifications include formal training in neuroanatomy/neuroscience and/or experience with computer-assisted teaching programs.

The College of Medicine is located on the University of Vermont campus in Burlington, Vermont, on the shores of Lake Champlain. Interested individuals should send a curriculum vitae and three letters of reference to: **Dr. Rodney L. Parsons, Chair, Department of Anatomy and Neurobiology, University of Vermont, Burlington, VT 05405.** FAX: 802-656-8704; e-mail: rparsons@zoo.uvm.edu. Applications will be accepted until the position is filled; however, we strongly encourage submission of materials by September 1, 1999.

The University of Vermont is an Equal Opportunity/Affirmative Action Employer. Women and people from diverse racial, ethnic, and cultural backgrounds are encouraged to apply.

POSTDOCTORAL POSITIONS available immediately to study real-time interactions and physiology of regulators and effectors of apoptosis in living cells and tissue using optical microscopic fluorescent techniques. Experience in cell biology, biophysics, molecular biology, or fluorescence microscopy is desirable. Please send curriculum vitae and three letters of recommendation to: **Brian Herman, Ph.D., Professor and Chair, Department of Cellular and Structural Biology, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7762.** E-mail: hermanb@uthscsa.edu. *The University of Texas is an Equal Employment Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION is available immediately to study structure/function and metabolism of acyltransferases critical for the synthesis of triacylglycerol and phospholipids. Applicants should have a strong background in molecular biology. Interest in membranes, signal transduction, and lipid or lipoprotein metabolism is a plus. Please send curriculum vitae, statement of research interests, and names of two referees to: **Dr. Rosalind Coleman, CB# 7400, University of North Carolina, Chapel Hill, NC 27599.** *Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITIONS MOLECULAR PATHOLOGY NATIONAL INSTITUTES OF HEALTH National Institute of Allergy and Infectious Diseases

The Laboratory of Immunopathology, National Institute of Allergy and Infectious Diseases seeks four Postdoctoral Fellows (Ph.D. and/or M.D.) with strong backgrounds in molecular pathology. Interests of the research group are in cancer genetics, mouse and *Drosophila* embryogenesis, tumor suppressor genes, transgenic mice, transcriptional regulation and factors including Zn-finger proteins and nuclear receptors, and mechanics of DNA-protein and/or protein-protein recognition. The focus is on studies of an evolutionarily conserved transcription factor called CTCF with multiple DNA sequence specificity, and a novel candidate tumor suppressor gene. Studies include, but are not limited to, (1) expression regulation of CTCF and by CTCF, (2) mutational analyses of CTCF in human cancers, (3) characterization of embryogenesis and tumorigenesis using recently developed CTCF transgenic mice strains, (4) targeted *in vivo* mutagenesis in a variety of CTCF-target genes, including *c-myc* and *PLK*, (5) function of CTCF in *Drosophila*, (6) structural analyses of combinatorial Zn-finger contribution in multivalent DNA sequence recognition, (7) CTCF protein partners, and (8) cell cycle regulation by CTCF. The positions are open immediately. Applicants must be within five years of receipt of their degree. Starting salary ranges from \$27,500 to \$42,000 commensurate with experience.

Send curriculum vitae and names of three references to:

**Dr. Victor V. Lobanenko and/or
Dr. Galina N. Flippova
c/o Dr. Herbert C. Morse III
Chief, LIP, NIAID
Building 7, Room 304, MSC-0760
Bethesda, MD 20892-0760
E-mail: vlobanenko@niaid.nih.gov
cc: liptemp@atlas.niaid.nih.gov**

NIH is an Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATE POSITION available immediately at the Wadsworth Center/State University of New York at Albany to investigate genes that influence complex behavior and development in the mouse. New genomic techniques including state-of-the-art mapping strategies and microarray technologies will be used to isolate and locate these genes. The nature of these genes will be explored. Excellent state-of-the-art molecular genetic core facilities are available at the Center and a part of a new Institute of Genomics. Send curriculum vitae and names of three references to: **Dr. Lorraine Flaherty, Director, Molecular Genetics Program, Wadsworth Center, P.O. Box 22002, Albany, NY 12201-2002.** E-mail: flaherty@wadsworth.org.

POSTDOCTORAL POSITION in reproductive endocrinology to study molecules essential for the onset and progression of labor. Transgenic and gene knockout murine systems will be exploited to identify novel molecules involved in parturition and define their *in vivo* functions. A background in molecular biology is required, with additional experience in mouse genetics desirable. Please send curriculum vitae and references to: **Louis Muglia, M.D., Ph.D., Washington University School of Medicine, One Children's Place, Box 8116, St. Louis, MO 63110.** E-mail: muglia_l@kids.wustl.edu.

POSTDOCTORAL POSITION available October 1999 to study brassinosteroid signal transduction in *Arabidopsis* (see: *Annu. Rev. Plant Physiol. Plant Mol. Biol.* 49: 427-451, 1998). Experience with recombinant DNA techniques and protein purification required. Submit by August 31, 1999, a curriculum vitae, list of publications, and names of three references to: **Dr. Steve Clouse, Department of Horticultural Science, North Carolina State University, Box 7609, Raleigh, NC 27695-7609.** E-mail: steve.clouse@ncsu.edu. *NC State University is an Equal Opportunity Employer.*

Want to get your foot in the door?

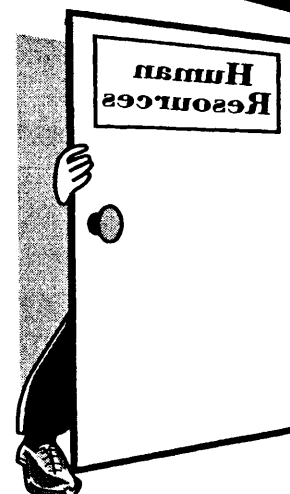
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Two Cambridge Center (corner of Broadway & 3rd St.)
20 August: 10 am – 6 pm

To pre-register, post your résumé online in the Résumé Databank on *Science* Professional Network at www.scienceonline.org. Click on *Science* Careers. Remember to bring multiple copies of your CV or résumé with you to the Career Fair; a copy will be necessary to gain admission to the hall. Admission is **FREE**. For more information call (202) 326-7018.

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EUROPEAN OPPORTUNITIES



Max-Planck-Institute of Colloids and Interfaces

The following opportunities are available at our state-of-the-art Potsdam facilities, located just outside of Berlin:

Postdoctoral & Ph.D. Positions

Candidates should have completed either a Ph.D. or a degree in chemistry, physics, biology, materials science or a related discipline. A background in one of the areas of colloids, interfaces, polymers, biosensing, nanotechnology, thin films or scanning force microscopy would be helpful.

Nanostructured Materials. Research will involve combining recent new developments in the areas of colloidal and interfacial science with those in bio-science, in order to produce novel, bio-functional materials which are expected to have potential applications in biotechnology, medicine, pharmaceuticals and materials science.

Scanning Probe Microscopy at Interfaces. Areas of research include scanning force microscopy, polymer adsorption behavior, interaction forces between polymers and molecular interfaces, and scanning tunneling microscopy on insulators and chemically structured surfaces.

If you are interested in contributing to these dynamic areas, and would like to be engaged in interdisciplinary research in an international team, please send your curriculum vitae to **Dr. Frank Caruso, Max Planck Institute of Colloids and Interfaces, D-14424 Potsdam, Germany**. Both programs are within the Interface Section (Director: Prof. H. Möhwald). Successful applicants will be expected to start on September 1, 1999 or as soon as possible thereafter. Further details can be obtained by Ph: +49 331 567 9410; Fax: +49 331 567 9202; or E-mail: f.caruso@mpikg-gom.mpg.de.

Women candidates are especially encouraged to apply.



UNIVERSITY OF OXFORD

Department of Zoology
in association with Linacre College

Readership in the Epidemiology of Infectious Disease

Applications are invited for the above post, tenable from 1st October 1999, or as soon as possible thereafter. Stipend on the scale £32,571 to £38,561 per annum. The successful candidate may be offered a professorial fellowship at Linacre College, on the basis set out in the further particulars, and will join the Department of Zoology's newly established Wellcome Centre for the Epidemiology of Infectious Disease, which is directed by Professor Roy Anderson, FRS.

Applicants should have an international standing in infectious disease epidemiology, a keen interest in undergraduate and post-graduate teaching and the ability to supervise research students. The successful candidate will be responsible for organising the Department's MSc in Epidemiology, Evolution and Control of Infectious Disease.

Further written particulars containing details of the duties and emoluments can be obtained from the Head of the Zoology Department: **Professor Paul Harvey, FRS, Department of Zoology, South Parks Road, Oxford OX1 3PS** (tel: +44(0)1865 271260; fax: +44(0)1865 271249; email: paul.harvey@zoo.ox.ac.uk), to whom completed applications (eight typed copies, or one only from overseas candidates), containing a curriculum vitae, a list of publications and statement of research, and the names of three referees, should be sent by 31st August 1999. Candidates will be notified if they are required for interview.

The University is an Equal Opportunities Employer.

POSITIONS OPEN

INTERESTED IN CLINICAL OR POSTDOCTORAL RESEARCH TRAINING?

The National Institutes of Health has both! For more information visit our website, which lists an array of clinical and postdoctoral opportunities, including tenure-track positions.
<http://www.training.nih.gov>

The NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS BRIGHAM AND WOMEN'S HOSPITAL HARVARD MEDICAL SCHOOL

One position involves positional cloning of mutants affecting organ development, genetic mapping and cloning of modifying genes, and analysis of ENU-mutagenized mice. A second position involves genetic analysis of a complex trait (airway hyper-responsiveness) in a mouse model of asthma. Molecular biology experience necessary, genetics background preferred, English oral and written ability necessary.

Please forward a curriculum vitae and the names of three references to: David R. Beier, M.D., Ph.D., Brigham and Women's Hospital, 20 Shattuck Street, Boston, MA 02115. FAX: 617-264-5292. e-mail: beier@rascal.med.harvard.edu.

Brigham and Women's Hospital is an Equal Opportunity Employer.

MEDICAL UNIVERSITY OF SOUTH CAROLINA

Two POSTDOCTORAL POSITIONS are available for NCI/NIH-funded projects. One project involves hormonal regulation of cell cycle arrest and signal transduction. Another is centered on the molecular basis of drug-induced apoptosis. Applicants with a Ph.D. or M.D. degree and experience in molecular biology are encouraged to apply. Send curriculum vitae and two letters of reference to: Dr. Weimin Fan, Department of Pathology and Laboratory Medicine, Medical University of South Carolina, 165 Ashley Avenue, Suite 309, P.O. Box 250908, Charleston, SC 29425. FAX: 843-792-7762; e-mail: fanw@musc.edu. Equal Opportunity Employer.

POSTDOCTORAL POSITION available to study signal transduction mechanisms involving the stress-induced NF- κ B and JNK pathways (see: Lee et al., *Cell* 88:213, 1997; Zhao & Lee, *JBC* 274:8355, 1999). Experience in molecular biology required. Send a curriculum vitae and the names of three references to: Dr. Frank Lee, Department of Pathology and Laboratory Medicine, University of Pennsylvania School of Medicine, 218 John Morgan Building, Philadelphia, PA 19104. FAX: 215-573-2272; e-mail: franklee@mail.med.upenn.edu. Equal Opportunity Employer.

A POSTDOCTORAL POSITION is immediately available in the Section of Gastroenterology at Boston University School of Medicine involving studies regarding the gene regulation of mammalian bombesin receptors in gastrointestinal malignancies. Highly motivated individuals with experience in cell biology, molecular biology, and protein biochemistry will be considered. Send curriculum vitae and names of three references to: Dr. H. Christian Weber, GI Section, Boston Medical Center, 88 East Newton Street, Boston, MA 02118. FAX: 617-638-7785. An Affirmative Action/Equal Opportunity Employer.

Support is available immediately for three POSTDOCTORAL FELLOWS interested in mammalian developmental and molecular genetics, with special emphasis on understanding transcriptional regulation within complex loci. Previous expertise in molecular biology is required, and prior experience with mice is desired. Please send your curriculum vitae to: Dr. J. D. Engel, Department of Biochemistry, 2153 North Campus Drive, Northwestern University, Evanston, IL 60201-3500 USA. E-mail: d-engel@nwu.edu.

POSITIONS OPEN

POSTDOCTORAL ASSOCIATE. National Center for Ecological Analysis and Synthesis (NCEAS)/University of California, Santa Barbara. Work with a working group planning studies to improve understanding of the terrestrial carbon cycle, especially consequences of land use change and disturbance, with focus on temperate and boreal latitudes in the Northern Hemisphere. Responsibilities: support project that will emphasize improving global-scale biogeochemistry models through the incorporation of new data algorithms characterizing natural and anthropogenic disturbance, including past and present land-use and land-cover change. Applicants should possess Ph.D. or research experience with one or more terrestrial biogeochemistry models, or with large-scale databases on disturbance or land-use/cover. Preferred skills: Familiarity with satellite data, programming, visualization, and data management. Initial funding one year; possible extension for a second year. All work conducted at NCEAS. Position open until filled. Desired start date: August 15, 1999. Send letter of application, statement of research interest, curriculum vitae, and names (with e-mail) of three referees. Applications should have "Carbon Balance" as subject field and e-mailed to e-mail: postapp@nceas.ucsb.edu or mail to: Dr. S. Andelman, Deputy Director, National Center for Ecological Analysis and Synthesis, 735 State Street, Suite 300, Santa Barbara, CA 93101-3351. NCEAS solicits proposals twice a year for supported activities, including working groups, Sabbatical Fellows, and Postdoctoral Associates. Information about NCEAS and proposal guidelines at website: <http://www.nceas.ucsb.edu>. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION is available immediately to investigate VEGF-induced signal transduction and other aspects of angiogenesis. Current projects in the laboratory include structure/function studies of VEGF receptors, identification of signaling proteins involved in endothelial cell function, and clarification of VEGF's role in tumor angiogenesis. A background in growth factors and receptors is desired. Experience in molecular biology and cell biology preferable. The applicant will work in a rich and highly interactive environment. Send curriculum vitae with the names of three references to: Dr. Bruce I. Terman, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, Cardiovascular Division, Forchheimer Building, G46, 1300 Morris Park Avenue, New York, NY 10461. Equal Opportunity Employer.

POSTDOCTORAL POSITION is available to study novel nongenomic effects of steroids. The laboratory uses molecular biology to study steroid-induced processes mediated at the membrane. The laboratory wishes to understand the signaling mechanisms controlling these processes as well as to identify membrane steroid receptors. One major interest is to study progesterone-induced maturation of *Xenopus* oocytes. Send curriculum vitae and the names and addresses of three references to: Stephen Hammes, M.D., Ph.D., University of Texas Southwestern Medical Center, Division of Endocrinology and Metabolism, 5323 Harry Hines Boulevard, J6.110, Dallas, TX 75235-8857 USA. E-mail: stephen.hammes@email.swmed.edu.

POSTDOCTORAL RESEARCH POSITION NEUROGENETICS

A Postdoctoral position is available to study the role of trace metals in neurogenetic disorders. Background in molecular biology/biochemistry required, and experience in yeast genetics desirable. Methodologies include yeast complementation assays, AAV gene therapy in mice, neuronal cell culture, and gene chip expression profiling. Please send curriculum vitae and names of three references to: Stephen Kaler, M.D., M.P.H., Research Center for Genetic Medicine, Children's National Medical Center, 111 Michigan Avenue N.W., Washington, DC 20010. FAX: 202-884-2007; e-mail: skaler@cnmc.org.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP METABOLISM OF TOBACCO- RELATED CARCINOGENS

The H. Lee Moffitt Cancer Center and Research Institute, located on the campus of the University of South Florida, invites applications for a Postdoctoral Fellowship in the laboratory of Dr. Philip Lazarus. Studies will include the analysis of tobacco carcinogen metabolic pathways and the importance of metabolic and DNA repair pathways in cancer susceptibility. A background in molecular biology as well as basic biochemistry (i.e., HPLC) is desirable. Previous experience in DNA adduct determinations would be an asset. Send letter of application, curriculum vitae, and three letters of reference to: Christine O'Connell, Director, Laboratory Operations, H. Lee Moffitt Cancer Center and Research Institute, 12902 Magnolia Drive, Tampa, FL 33612. A drug-free workplace. Equal Opportunity/Affirmative Action Employer.

Two POSTDOCTORAL POSITIONS available immediately to study the structure and function of metalloenzymes involved in microbial CO₂ fixation, reductive dehalogenation, and methane formation. One position requires experience in prokaryotic molecular biology. The other position requires training in metalloenzyme spectroscopy or mechanistic enzymology. See website: <http://www.pigment.unl.edu/dept/Ragsdale/homepage.html> for more information. Send curriculum vitae and the names of three referees to: Dr. Stephen W. Ragsdale, Department of Biochemistry, Beadle Center, University of Nebraska, Lincoln, NE 68588-0664. E-mail: sragsdal1@unl.edu. The University of Nebraska-Lincoln is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS IN MICROBIAL PATHOGENESIS AT DARTMOUTH MEDICAL SCHOOL

Two positions are immediately available to study the molecular mechanism of (1) gene regulation by the global regulatory locus *sar* and (2) selective gene expression of *Staphylococcus aureus* within host cells. Ph.D.'s with backgrounds in molecular genetics, protein biochemistry, and host cell signaling are preferred. Please send résumé and three reference letters to: Dr. Ambrose Cheung, Department of Microbiology, NH 206, Dartmouth Medical School, Hanover, NH 03755. E-mail: ambrose.cheung@dartmouth.edu.

POSTDOCTORAL POSITION is available immediately to study novel therapeutic approaches for the treatment of prostate cancer at the molecular level. Three years of grant support assured. Candidates should have a strong background in protein biochemistry as well as experience in cell and molecular biology. Experience in redox-related aspects of apoptosis is desirable. Applicants should send their curriculum vitae and the names of three referees to: Dr. B. Woyanowska, Department of Radiology, University of Texas Health Science Center at San Antonio, 8122 Datapoint Drive, Suite 700, San Antonio, TX 78229. FAX: 210-692-7502; e-mail: bwoynar@saci.org. The UTHSCSA is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW IN STRUCTURAL BIOLOGY

Crystallographic projects that probe the structural basis of motor protein function, including crystallization of mutant and unconventional myosins. Experience in solving and refining crystal structures, and in X-ray data collection required. The University has a fully operational crystallographic facility. Send curriculum vitae to: Dr. Kathleen Trybus, University of Vermont, Given E-205, Burlington, VT 05405. E-mail: trybus@salus.med.uvm.edu.



The Faculty of Medicine of the University of Lausanne is seeking for a position of

Professor of Biochemistry (full professor level)

The successful applicant is expected to establish a strong research program

to complement the research activities at the Biomedical Research Center in Epalinges/Lausanne (www.isrec.ch). Applications involving research programs in the areas of signal transduction in development and/or tissue homeostasis are particularly encouraged.

The successful applicant is expected to participate in the under- and postgraduate teaching responsibilities of the Institute of Biochemistry and to share managerial responsibilities with its other faculty members.

Applicants must have a record of outstanding research and teaching experience in biochemistry.

Candidates are invited to send their curriculum vitae, a list of scientific publications and the usual documents to Professor Bernard C. Rossier, Dean of the Medical Faculty, Rue de Bugnon 21, CH-1005 Lausanne.

Deadline for application is October 31, 1999.

Specifications concerning the positions can be obtained at the same address.

THE MAX-PLANCK-INSTITUTE OF IMMUNOBIOLOGY

Freiburg, Germany is looking for a

Flow Cytometry Operator

for the Central Flow Cytometry Service Laboratory of the Institute. The initial appointment is for 5 years with the possibility of extension. At the moment, the laboratory is equipped with FACStar, MoFlo, FACS Calibur and FACScan machines and is continually upgraded according to novel technical developments. Experience in flow cytometry are of advantage but not essential. Applicants should be interested in and capable of dealing with high-tech computer-operated electronic and/or optical equipment, and should be willing to cooperate with other technical and scientific members of the Institute. A suitable professional background could be in informatics, engineering, or as laboratory technician. This is an exciting opportunity for a highly motivated person to contribute to the scientific development of the Institute by implementation of novel technology, regular contacts with multiple users of the service, combined with a high degree of independence in the organization of the lab.

Salary according to the German Public Service tarif (BAT). Social benefits are equivalent to those of German Public Services. The Max-Planck-Society is an equal opportunity employer and especially encourages applications from women.

A Kindergarten is attached to the Institute.

Applicants should submit their curriculum vitae and names and addresses of suitable referees to

**Max-Planck-Institute of Immunobiology
- Personnel department -
Stübeweg 51, D-79108 Freiburg, Germany**



Imperial College
OF SCIENCE, TECHNOLOGY AND MEDICINE

GOVERNORS' LECTURERS

The Governors' Lecturers initiative reflects our continuing commitment to pursue excellence in teaching and research and we wish to appoint a significant number of lecturers with outstanding ability and potential. Our aim is to extend and consolidate our existing research interests as well as to embark upon new initiatives.

We are seeking applications from candidates with a background in any discipline within, or complementary to, science, technology and medicine. The College is keen to encourage interdisciplinary activity and the application of science, technology and medicine. Applicants will find opportunities within the existing range of academic units:

Aeronautics
Biochemistry
Biology
Biological and Medical Systems
Chemistry
Chemical Engineering and Chemical Technology
Civil and Environmental Engineering
Computing
Electrical and Electronic Engineering
Environmental Science, Earth Science and Engineering
History of Science, Technology and Medicine
Management
Materials
Mathematics
Mechanical Engineering
Physics

and within academic divisions of Imperial College School of Medicine.

We are to merge with Wye College next year and opportunities will also be available in agriculture, horticulture and agricultural economics.

We are looking for applicants with demonstrable research potential who have the capability of developing innovative research ideas within their field. Applicants must also be strongly committed to providing teaching of the highest quality. The posts will be awarded on a College-wide competitive basis.

For further details and an application form, please contact us, preferably by email, s.ahmed@ic.ac.uk or 0171 594 5507 (answerphone). When you contact us, it is essential that you indicate clearly your academic field. **The final date for receipt of applications is Thursday 30 September.**

It is expected that appointments will be made on the Lecturer grade (salary scale £18,789 - £31,182 inclusive of London Allowance - pay award pending).

The College is striving towards Equal Opportunities

POSITIONS OPEN

EDITORIAL FELLOW THE AMERICAN JOURNAL OF HUMAN GENETICS

The Journal is offering a full-time **POSTDOCTORAL POSITION** in Atlanta for an Editorial Fellow for a two- to four-year period beginning September 1999. We seek someone who has a broad range of interests in human and nonhuman genetics, a lively and engaging writing style, and a strong interest in learning and participating in scientific communication and the editorial process. The American Journal of Human Genetics (AJHG) Fellow will assist the Editor in identifying topics for review and editorial commentary in the Journal, help write commentaries, provide a summary of selected articles for each issue, and assist in the manuscript review process. This is an excellent opportunity as an entry-level position leading to more senior positions with the science and medical publishing enterprise. Candidates are asked to send a letter of interest, curriculum vitae, and writing sample to: **Stephen T. Warren, Ph.D., Editor, The American Journal of Human Genetics, Emory University School of Medicine, 1462 Clifton Road, Room B28, Atlanta, GA 30322-3050.**

DEPARTMENT OF MOLECULAR CARDIOLOGY LERNER RESEARCH INSTITUTE Cleveland Clinic Foundation

Two **POSTDOCTORAL POSITIONS** are available immediately in the laboratory of **Dr. Meredith Bond**, Department of Molecular Cardiology, Lerner Research Institute, Cleveland Clinic Foundation. We seek candidates with experience in molecular biology and protein chemistry. Expertise with the Yeast-Two Hybrid System is advantageous. Successful candidates will be involved in investigations of downstream regulation of the protein kinase A signaling pathway in the heart, in particular the role of A-kinase anchoring proteins. Please send applications to: **Meredith Bond, Ph.D., Department of Molecular Cardiology, NB50, Lerner Research Institute, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. E-mail: bondm@ccf.org.**

POSTDOCTORAL POSITION to study pre-mRNA splicing, focussing on the actions of the cyclophilin USA-CyP and the second-step protein hPrp18, as described in *Genes & Dev.* 11:139-151, 1997; *RNA* 3:1374-1387, 1997. Experience in molecular biology is essential; some experience in protein biochemistry or *in vitro* RNA work is desirable. Please send curriculum vitae including the names of three references to: **Dr. David Horowitz, Department of Biochemistry, Uniformed Services University of the Health Sciences, 4301 Jones Bridge Road, Bethesda, MD 20814. Telephone: 301-295-3589; FAX: 301-295-3512; e-mail: dohorwitz@usuhs.mil. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL FELLOWSHIPS WEILL MEDICAL COLLEGE OF CORNELL UNIVERSITY

Postdoctoral positions available to study signaling mechanisms in endothelial cell apoptosis. Molecular biology experience necessary. Laboratory also involved in gene chip microarrays, mass spec peptide mapping, HIV. Respond to: **Dr. Jeffrey Laurence, Weill Medical College of Cornell University, 411 East 69th Street, New York, NY 10021. FAX: 212-746-8601; e-mail: jlaurence@mail.med.cornell.edu.**

POSTDOCTORAL POSITION

Postdoctoral position available immediately to study the immunogenicity of recombinant HIV-1 envelope glycoproteins in animal models. Ph.D. or M.D. is required; experience in molecular biology and protein expression/purification is desirable. Please send curriculum vitae and three letters of reference to: **Dr. Richard Wyatt, Dana-Farber Cancer Institute, 44 Binney Street, JFB 824, Boston, MA 02115. FAX: 617-632-3113. Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION

An NIH-funded Postdoctoral position is available immediately for a scientist interested in investigating how calmodulin transduces calcium signals in cells, with an emphasis on the spatio-temporal aspects of this process. Studies will be performed using intact cells, and will involve making activity measurements of calmodulin-dependent enzymes, and using novel genetically encoded fluorescent indicators to measure the corresponding intracellular concentrations of free calcium ion and free calcium-liganded calmodulin. Interested individuals should have experience with contemporary techniques in cell and molecular biology and fluorescence microscopy. Rochester is a pleasant medium-sized city with many cultural activities located in upstate New York, an area rich in scenic beauty. Applicants should send their curriculum vitae, including the names of three references, to: **Dr. Anthony Persechini, Department of Pharmacology and Physiology, University of Rochester Medical Center, 601 Elmwood Avenue, Box 711, Rochester, NY 14642.**

POSTDOCTORAL FELLOWSHIPS

The University of California and the Veterans Affairs Medical Center, San Francisco, have positions available for two separate projects. The first seeks an individual interested in exploring the regulation of gene transcription during differentiation of normal and transformed keratinocytes. This individual will have a Ph.D. in molecular and/or cellular biology with experience in cell signaling as well as gene transcription. The second seeks an individual interested in exploring the effects of microgravity at the molecular and cellular levels on bone formation and bone cell differentiation using rodent models. This individual will have a Ph.D. in the biological sciences with experience in bone cell preparation as well as bone histomorphometry including *in situ* hybridization and immunolocalization. Please send your curriculum vitae and names of three references to: **Daniel Bille, M.D., Ph.D., VA Medical Center (111N), 4150 Clement Street, San Francisco, CA 94121.**

POSTDOCTORAL POSITION ION CHANNEL STRUCTURE AND CHAOS

Person experienced in physical measurements of ion channel proteins (NMR, ESR, CD, or fluorescence). Willing to learn nonlinear methods (chaos) to analyze and model electrophysiological single channel data to determine relative contributions of deterministic forces and stochastic thermal events in channel protein conformational changes. This is an opportunity for a Biophysicist to learn about contemporary nonlinear methods and an opportunity for me to learn more about channel structure. Contact: **Dr. Larry S. Liebovitch, Center for Complex Systems and Brain Sciences, Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431. Website: <http://www.ccs.fau.edu/~liebovitch/larry.html>. Position is contingent upon available funding. Please send curriculum vitae by August 30, 1999. *Florida Atlantic University is an Equal Opportunity/Affirmative Action Institution.***

POSTDOCTORAL POSITION available to study the role of paxillin and associated proteins in cell adhesion and growth factor signaling and cytoskeletal organization (See: *J. Cell Biol.* 145:851-863). Experience in cell biology and/or molecular biology techniques essential. A background in cell adhesion desirable. Send curriculum vitae and names of references to: **Dr. Christopher E. Turner, c/o Department D-Job #8650, Human Resources Department, SUNY Health Science Center at Syracuse, 750 East Adams Street, Syracuse, NY 13210. An Affirmative Action/Equal Employment Opportunity/ADA Employer, committed to excellence through diversity.**

POSITIONS OPEN

SPECIALIST/POSTDOCTORAL/SENIOR POSITION ENVIRONMENTAL SCIENCE

Program lead for environmental sampling (air, water, soil, biota) including technical staff supervision, requiring degree(s) in ecology, radiation ecology, soil science, hydrology, or other natural resources discipline. Specialist: B.S. (M.S. preferred) plus five years of related experience; Postdoctoral: Ph.D. within last two years; Senior: Ph.D. plus five years of environmental science research, peer-reviewed publication, and demonstrated generation of extramural funding. Senior position to establish vigorous research program leveraging Center resources for new initiatives. Ability to lift, climb, and work safely in isolated desert environment required at all levels. Position title and salary commensurate with qualifications and experience. Résumé review begins August 30, 1999. See website: <http://www.cemrc.org> for detailed position descriptions. Send detailed résumé and list of four references to: **Dr. Marsha Conley, Director, Carlsbad Environmental Monitoring and Research Center, New Mexico State University, 1400 University Drive, Carlsbad, NM 88220. E-mail: kyoung@cemrc.org. Position is contingent upon continuation of funding. Offer is contingent upon certification of eligibility for employment in the United States. New Mexico State University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION FOR TERRESTRIAL ECOLOGIST IN URBAN ECOSYSTEMS AT ARIZONA STATE UNIVERSITY

We announce a Postdoctoral position in ecology as part of a long-term study of an urban ecosystem in the Southwestern United States, the Central Arizona-Phoenix LTER (website: <http://caplter.asu.edu>). Applicants should have interests and experience in interdisciplinary studies of urban or other human-dominated ecosystems. Applications from any field of ecology are welcome, but preference will be given to vertebrate ecology, plant ecology, or ecosystem-level energetics or nutrient cycling. Position begins after September 1, 1999. Send cover letter explaining interest in the position and relevant expertise, curriculum vitae, telephone numbers and e-mail addresses of three references, and reprints (no more than three) to: **Brenda Shears, Postdoctoral Search, Center for Environmental Studies, Box 873211, Arizona State University, Tempe, AZ 85287-3211. Applications due August 30, 1999, and the 15th and 30th of each month thereafter, until filled. For inquiries, job description, required and desired qualifications, contact: **Brenda Shears, Telephone: 602-965-0870; e-mail: brenda.shears@asu.edu. Position contingent upon funding. Affirmative Action/Equal Opportunity Employer.****

Two **POSTDOCTORAL POSITIONS** are available to study the biochemistry of oxygen detection by plants and mammals. Experience in standard manipulations of nucleic acids and proteins is essential. Familiarity with spectroscopic methods such as stopped-flow, EPR, NMR, and fluorescence spectroscopy is desirable. For further information, visit website: <http://biochem.ohio-state.edu/GillesGonzalez/home>. Interested candidates should direct their curriculum vitae and the contact information for three references to: **Dr. M.-A. Gilles-Gonzalez, Departments of Biochemistry and Plant Biology, The Ohio State University, 1060 Carmack Road, Columbus, OH 43210-1002. E-mail: gilles-gonzalez.1@osu.edu. The Ohio State University is an Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS are available to study the regulation of apoptosis in cancer cells. Candidates should hold a Ph.D. or equivalent degree in molecular biology or a related field. Send curriculum vitae and three letters of reference to: **Dr. Rakesh K. Srivastava, University of Maryland School of Pharmacy, 20 North Pine Street, Baltimore, MD 21201. E-mail: rsrivast@rx.umaryland.edu.**

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP

Postdoctoral positions are immediately available in the Cancer and Developmental Biology Laboratory Group, Division of Basic Sciences, National Cancer Institute under the supervision of **Dr. Mark Lewandoski**. The Laboratory focuses on the role of the FGF signaling pathway during mouse embryogenesis with an emphasis on brain and limb development. We are using the latest genetic and transgenic techniques to create multiple alleles and tissue-specific knockouts (*Nat. Genet.* **18**:136-41). Projects include genetic screens for identifying downstream targets of FGF-signaling and the further advancement of systems such as Cre/loxP to manipulate the mouse genome *in vivo*.

The Laboratory is located at the NCI-Frederick Cancer Research and Development Center, Frederick, Maryland. The NCI offers competitive Postdoctoral stipends (\$29,000 to \$36,200) and an excellent work environment. Interested applicants should send a curriculum vitae, an introductory letter containing a brief description of research experience, and contact information for three references to: **Dr. Mark Lewandoski, Cancer and Development Biology Laboratory, NCI-Frederick Cancer Research and Development Center, P.O. Box B, Building 539, Room 121, Frederick, MD 27102. E-mail: rhoderic@mail.ncifcrf.gov.**

The National Institutes of Health is an Equal Opportunity Employer and encourages all qualified women and minorities to apply. Selection for this position will be based solely on merit, with no discrimination for nonmerit reasons such as race, marital status, physical or mental disability, age, sexual orientation, or membership or nonmembership in an employee organization.

POSTDOCTORAL POSITION JOHNS HOPKINS ONCOLOGY CENTER

A Postdoctoral position is available to study genes involved in the proliferation and differentiation of hematopoietic stem cells. A strong background in molecular and cellular biology is desired. The position is funded by a training grant from the NIH, and may only be used to train individuals who are U.S. citizens or permanent residents of the United States. Only those eligible to participate in the training grant program will be considered for the position. The starting salary is \$28,000.

Please send or FAX curriculum vitae and three references to: **Donald Small, M.D., Ph.D., Oncology Center 3-109, Johns Hopkins University School of Medicine, 600 North Wolfe Street, Baltimore, MD 21287. FAX: 410-955-8897. Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL ASSOCIATE

The Department of Neurology, University of Miami School of Medicine seeks to recruit a Postdoctoral Associate to study pathological mechanism of neuronal death. Studies will include biochemical, electrophysiological, and spectroscopic techniques using *in vitro* and *in vivo* preparations. Applicants with expertise in one or more of these areas. Send curriculum vitae and name/telephone of three references to: **Dr. Miguel A. Perez-Pinzon or Dr. Thomas J. Sick, Department of Neurology (D4-5), University of Miami School of Medicine, P.O. Box 016960, Miami, FL 33101. E-mail: mperez@neuron.med.miami.edu; FAX: 305-254-0661.**

Seeking **POSTDOCTORAL FELLOW** to join research team studying cell cycle control, with emphasis on lung cancer. Major focus involves studying the role of the p16 tumor suppressor gene in the response to DNA damage (*MCB* **18**:378). A complementary project focuses on the effect of pharmacologic cyclin-dependent kinase inhibitors *in vitro*, to generate preliminary data that will lead to clinical trials. Send curriculum vitae and names of three references to: **Dr. Geoffrey Shapiro, Dana-Farber Cancer Institute, Mayer 422, 44 Binney Street, Boston, MA 02115. E-mail: geoffrey_shapiro@dfci.harvard.edu; FAX: 617-632-5998. Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP

Postdoctoral positions are available for (1) studies of the molecular and cell biology of hepatocyte plasma membrane transporters; (2) *in vitro* studies of microtubule-directed endocytic vesicle motility and maturation utilizing fluorescence imaging technology; (3) molecular and cell biologic studies of the role of a newly described kinase in hepatocyte vesicular trafficking. Fellows will be active participants in all Liver Research Center training and educational activities. Applicants should send a curriculum vitae and the names and addresses of three references to: **Dr. Allan W. Wolkoff, Associate Director, Marion Bessin Liver Research Center, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. FAX: 718-430-8975; e-mail: wolkoff@aecom.yu.edu.**

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GLOBAL OPPORTUNITIES



TENURE-TRACK POSITION THE HEBREW UNIVERSITY SCHOOL OF PHARMACY Jerusalem, Israel

A tenure-track position for a Medicinal Pharmaceutical or Natural Product Chemist is available in the Department of Medicinal Chemistry in the School of Pharmacy at The Hebrew University of Jerusalem for the academic year 1999-2000 or 2000-2001. A Ph.D. degree and postdoctoral training with a record in the area of drug design and discovery is required. Excellence in research will be of prime importance in the decision of the search committee. Candidates are expected to conduct independent research and take part in teaching organic medicinal chemistry and bioorganic courses to undergraduate and graduate pharmacy students.

Candidates are requested to send their curriculum vitae, list of publications, three to five selected reprints, a brief outline of research plans, and three letters of recommendation to: **School of Pharmacy Office, The Hebrew University of Jerusalem, P.O. Box 12065, Jerusalem 91120 Israel no later than September 30, 1999.**

GLOBAL OPPORTUNITIES

The International Cooperative Biodiversity Group (ICBG) for Panama seeks **POSTDOCTORAL ASSOCIATE** for bioassay-guided fractionation and structural elucidation of natural products. Position available in early 2000. Candidate will work with Panamanian and U.S. scientists at the University of Panama (CIFLORPAN) and the Smithsonian in Panama. For further information contact:

Dr. P. D. Coley
E-mail: coley@biology.utah.edu
Thomas A. Kursar, Associate Professor
Department of Biology
University of Utah
257 South 1400 East
Salt Lake City, UT 84112-0840
Telephone: 801-581-8369
FAX: 801-581-4668

MEETINGS AND ANNOUNCEMENTS

MOLECULAR LIBRARY TECHNOLOGIES AT THE MILLENNIUM. October 24-26, 1999; Holiday Inn, Chinatown, San Francisco. Organizers: **D. Burton, J. Larrick, J. Marks.** Sponsor: Palo Alto Institute of Molecular Medicine, 2462 Wyandotte Street, Mountain View, CA 94043 USA. Telephone: 650-694-1420; FAX: 650-694-7717; e-mail: paimm@netgate.net. Details, website: www.pano.com/paimm.

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE TUMOR BIOLOGY/IMMUNOLOGY

Position available to study the role of unique molecular markers expressed on specific organs, which is accessible to circulating tumor cells, in organ-specific metastasis. Projects involve identification of the recognition peptide sequences important for selective adhesion to specific organs, their characterization, and demonstration of its role in organ-specific malignant tumor cell arrest and metastasis. Experience in cell and molecular biology, immunological techniques, and mouse model is expected. Please send letter of interest outlining professional background, current curriculum vitae, and list of references to: **Rakesh K. Singh, Ph.D., Department of Pathology and Microbiology, University of Nebraska Medical Center, 985660 Nebraska Medical Center, Omaha, NE 68198-5660.**

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