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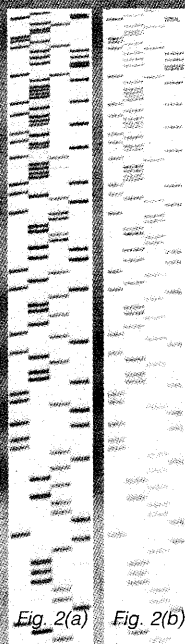
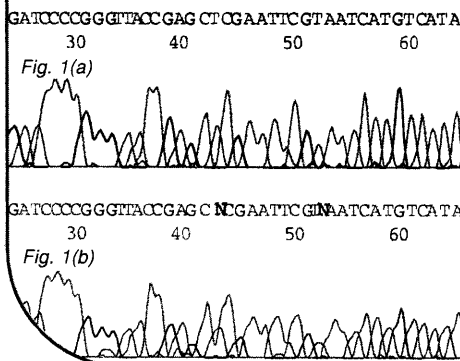
PCR clean-up.

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Fig. 1. Fluorescent sequencing results of a 100 bp pUC18 PCR fragment sequenced with a -20 Fwd primer using the DYEnamic ET Terminator Cycle Sequencing Kit (Amersham Pharmacia Biotech). Data generated for USB by Cleveland Genomics (clevelandgenomics.com), a research service company. PCR clean-up performed with: (a) ExoSAP-IT; (b) a column designed for PCR clean-up. Base miscalls in (b) are due to inherently low yields of short PCR products when using columns.

Fig. 2. Autoradiograms of a 20.7 kb Lambda PCR fragment sequenced with MBL202 Fwd primer using USB's Thermo Sequenase Radiolabeled Terminator Cycle Sequencing Kit. PCR clean-up performed with: (a) ExoSAP-IT; (b) a column designed for PCR clean-up.



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† The Polymerase Chain Reaction (PCR) is covered by patents owned by Roche Molecular Systems and F. Hoffmann-La Roche Ltd. ‡ Patent pending on product. The method of use is covered by the following patents: 5,756,285 and 5,741,676.

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St. Louis, MO

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POWERFUL PREDICTIONS

GeneFold is a protein fold prediction program that is a module of the SYBYL suite of programs from Tripos. The software combines several sophisticated algorithms to predict protein folding from amino acid sequence information. This

combined strategy allows predictions of three-dimensional structures of sequences that have less than 30% identity to a protein of known structure by using protein threading (assessing the likelihood that a known protein fold is feasible for a sequence). GeneFold interfaces with the Internet directly for protein sequence retrieval. In combination with the powerful SYBYL biopolymer modeling environment, protein structures can be efficiently predicted.

GeneFold starts by generating a rank-ordered list of the ten most similar protein sequences to a sequence of unknown structure. Three scoring methods are used by the program. The first uses sequence homology that scores according to the quality of the alignment between the target sequence and the template. The second algorithm includes sequence similarity and also compares known amino acid preferences for solvent exposure and secondary structure with those of each amino acid after it is threaded onto a template. The third method adds an analysis that compares the predicted secondary structure of the target sequence and the known secondary structure of the template sequence.

The GeneFold graphical user interface provides easy access to the results of the analyses. The program can show the uncertainty in any given alignment by displaying the sequence alignment quality. After examining these results, users must select the template(s) to be used for building the three-dimensional model of the target protein from the rank-ordered list of sequences. Models are built as C-alpha backbone-only models directly by GeneFold, or alternatively by other homology modeling programs such as the SYBYL module, Composer. With Composer, more detailed model protein structures are obtained by modeling sidechains and loops created by gaps in the alignment.

By considering structure and sequence, GeneFold generates alignments even when sequence homology is low and homology modeling alone would be unreliable. GeneFold has been validated against several sets of proteins, including CASP2 targets, which have structural homologs with little or no sequence similarity.

The GeneFold program is a powerful, easy-to-use tool that every genomics or proteomics lab should have access to. The major drawback is that the GeneFold program is part of the SYBYL molecular modeling suite, which runs in a Unix environment and is fairly expensive. Academic and commercial licenses are available.

—Kathy E. Mitchell

Department of Anatomy and Physiology, Kansas State University, Manhattan, KS 66506, USA. E-mail: mitchell@vet.ksu.edu

Compugen

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AUTOMATED TWO-DIMENSIONAL GEL ANALYSIS

A new version is available of Z3, an automated system for analyzing proteins in two-dimensional (2D) gels, a common tool for comparative analysis of protein expression. The instrument accelerates 2D analysis from months to days and makes possible analysis on a large scale with a new degree of accuracy. The new

version introduces a feature that allows extracting comprehensive and accurate information from repeated experiments. The Z3 makes use of image analysis algorithms that improve the accuracy and automate the alignment of two gels within seconds. Analyzed images make use of a color overlay technology that displays the results in a quick, easy-to-read format readily visible at first glance. This allows comparison of differential protein expression between normal and diseased tissues. Upgraded features include the capability to create one image from several gels of the same sample (allowing for more accurate and robust analysis), an advanced protein annotation feature, and the ability to predict the mass of protein components of the samples.

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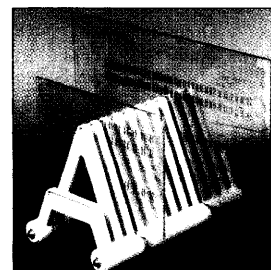
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The Scienceware Electrophoresis Gel Plate Rack is designed for the safe storage and transportation of gel plates in the laboratory. The rack has 10 positions for holding



glass plates and a weighted base for safety. Wide handles on both ends provide a secure grip for transporting the rack, filled with plates, from one location to another. It is constructed of smooth polypropylene, which cushions the glass edges to reduce chipping and cracking of the plates.

Pierce

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PROTEIN MARKERS

The TriChromRanger Marker is a mixture of seven prestained proteins in the range of 16.5 K to 210 K. The second highest molecular weight component of the marker (phosphorylase B) and the lowest molecular weight component (lysozyme) in the mix have been covalently modified with a red and purple dye, respectively, to act as reference bands within the gel. The remaining five proteins have been covalently modified with a blue dye. The inclusion of two differently stained bands in the markers allows easy marker protein recognition on protein immunoblots or sodium dodecyl sulfate gels should the dye front run off the bottom of the gel. The marker is ready-to-use and stable at room temperature.

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SOFTWARE FOR PROTEOMICS

WorksBase software is designed to address the data management concerns of proteomics researchers by addressing the bioinformatics bottlenecks that confront pharmaceutical and biotechnology companies. The rapid expansion of public and private reference databases has created a wealth of sequence, function, and structural information for both proteins and genes. This flow of information has generated a greater demand on scientists to maintain and compare this data and establish relationships between databases. Due to the increased throughput of automated instruments and

CONTINUED ON PAGE 524

the need to analyze data from different sources, such as gel images, mass spectrometry, and microarrays, researchers can be overwhelmed by the amount of information. WorksBase is an open database system designed to work with all bioinformatics information. It includes the capability to integrate proteomics data with other sources of information, including genomic, array, metabolic, biochemical, molecular modeling, and other data.

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Profect reagents can deliver a variety of proteins into several mammalian cell lines. *Profect-P1* (lipid-based) and *Profect-P2* (non-lipid) reagents form non-covalent complexes with proteins and enable efficient protein transfer into

cells. The transfection protocol is simple and fast. Applications include delivery of proteins into cells to analyze their function, control of apoptosis, delivery of antibodies, co-delivery of protein and nucleic acid, and modulation of enzyme activity.

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designed for use with microarray robots and scanners. The slides are suitable for fluorescent, autoradiographic, or chemiluminescent detection methods.

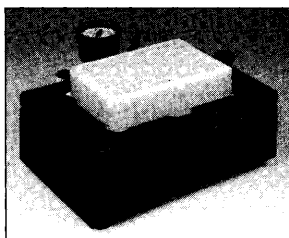
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PROTEIN PRECIPITATION SYSTEM

This Protein Precipitation System simplifies the removal of contaminant protein, cell debris, and other material from a biosample. Suitable for high-throughput applications, the system features a UNIFILTER microplate with

specially formulated dual membranes in each well that enable the cleanup process and the collection of the clear supernatant to be performed within one integrated system. This new approach eliminates the need for a separate centrifugation step and provides the ability to completely automate the sample preparation process. The complete system consists of the 2-ml, 96-well polypropylene UNIFILTER microplate, complementary collection plates, and a vacuum manifold. The top layer acts as a pre-filter to remove coarse particulates and prevent clogging while the 0.7- μ l oleophobic bottom layer removes fine particulates and retains the well contents without dripping. The sample is only drawn through the membrane when the vacuum is applied after precipitation has occurred.



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The gelPix system is a high-throughput protein spot excision system that automates the processing of two-dimensional protein gels. The gels are imaged using a high-resolution on-board cam-

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this stain is a fast, effective alternative to Coomassie and silver staining techniques.

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LITERATURE

MICRA NPS HPLC and Rapid Protein Profiling: Applications in Proteomics and Cell Expression Systems is a four-page application note on the use of a line of nonporous silica high performance liquid chromatography (HPLC) columns.

The publication details a solution that can be used as an alternative to two-dimensional gel electrophoresis. The note describes how this new technique takes advantage of the liquid phase characteristics of HPLC along with the speed, sensitivity, and resolving power of MICRA NPS technology.

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Laboratory Catalogue 2001-2002 offers thousands of membrane-based products for purifying and concentrating samples for molecular biology, protein chemistry applications, and assay development, as well as products for decontaminating fluids. The catalog includes

sample preparation products for genomics, proteomics, drug discovery, and sterile filtration. New products featured include Montage Life Science Kits for nucleic acid research and Multi-screen 384-well plates for dye terminator removal, and ZipTip Pipette Tips for concentrating and purifying femtomoles to picomoles of biological samples prior to mass spectrometry and other analytical techniques.

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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FACULTY POSITIONS BACTERIOLOGY AND IMMUNOLOGY

The Department of Microbiology and Immunology at The Wake Forest University School of Medicine invites applications for two tenure-track **ASSISTANT PROFESSOR** positions in bacteriology and a similar position in immunology beginning July 2002. Applicants must have a Ph.D. or M.D. degree, post-doctoral training in bacteriology or immunology, and documented evidence of high-quality research. Successful candidates will be expected to establish independent research programs and participate in the teaching of graduate and medical students. In addition to a competitive salary and start-up package, the Department offers a very successful mentoring program for new faculty. Information about the Department and its faculty and students may be found at [website: http://www.wfubmc.edu/microbio](http://www.wfubmc.edu/microbio). Candidates should submit curriculum vitae, a description of proposed research, and arrange for three letters of recommendation to be sent directly to: **Dr. Steven B. Mizel, Chair, Department of Microbiology and Immunology, Wake Forest University School of Medicine, Medical Center Boulevard, Winston-Salem, NC 27157.** *Wake Forest University is an Affirmative Action/Equal Opportunity Employer.*

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POSITIONS OPEN

FACULTY POSITION BEHAVIORAL NEUROSCIENCE Brandeis University

The Department of Psychology and the Volen National Center for Complex Systems at Brandeis University invite applications for a tenure-track position in the Cognitive Neuroscience program. Our search focus will be on candidates at the **ASSISTANT PROFESSOR** or beginning **ASSOCIATE PROFESSOR** level. We seek to fill this position with a well-trained Neuroscientist approaching questions of learning, memory, perception, or motor control by monitoring neural activity in behaving vertebrates. Successful candidates should be able to mount a vigorous, independent research program and have a strong commitment to both undergraduate and graduate education with teaching interests in such areas as physiological psychology/behavioral neuroscience and experimental methods. Applicants should submit their curriculum vitae, research statement, and copies of relevant papers and arrange to have three letters of reference sent to:

The Search Committee
Department of Psychology
MS 062
Brandeis University
Waltham, MA 02454-9110
E-mail: sekuler@brandeis.edu

First consideration will be given to candidates whose applications are complete by October 15, 2001. *Brandeis University is an Affirmative Action/Equal Opportunity Employer. Applications from minorities and women are encouraged.*

STANFORD UNIVERSITY DEPARTMENT OF CHEMISTRY

TENURE-TRACK FACULTY appointment in the general area of inorganic chemistry or organic chemistry. Applicants must be strongly motivated toward creative research and committed to teaching at undergraduate and graduate levels.

All applications must include the following materials: (1) current curriculum vitae and list of publications, (2) brief statement of research interests (three pages or less), and (3) arrange to have three letters of reference sent on your behalf to the Chair of the appropriate Search Committee (see below).

Send applications in the general area of inorganic chemistry to: **Chair, 2001-2002 Inorganic Chemistry Search Committee, Department of Chemistry, Stanford University, Stanford, CA 94305-5080.** Send applications in the general area of organic chemistry to: **Chair, 2001-2002 Organic Chemistry Search Committee, Department of Chemistry, Stanford University, Stanford, CA 94305-5080.**

Completed applications must be received by October 15, 2001. Appointment will commence on or after September 1, 2002.

Stanford University is committed to Equal Employment Opportunity through Affirmative Action and is eager to identify minority persons and women with appropriate qualifications.

The Department of Chemistry and Biochemistry jointly with the Institute for Cellular and Molecular Biology at The University of Texas at Austin is seeking to expand its faculty with the addition of two tenure-track **ASSISTANT PROFESSOR** positions starting September 1, 2002. One position is in areas related to nucleic acid or protein/nucleic acid crystallography. The second position will be in the general area of biochemistry. Visit [website: http://www.cm.utexas.edu](http://www.cm.utexas.edu) for more information on the Department. Exceptional senior level applicants will also be considered. Applications received after October 15, 2001, may not receive full consideration and early applications are encouraged. Candidates should forward curriculum vitae, short descriptions of research plans, a statement of teaching philosophy, and three letters of reference to: **Biochemistry Search Committee, Department of Chemistry and Biochemistry, The University of Texas at Austin, Austin, TX 78712.** *Equal Opportunity/Affirmative Action Employer.*



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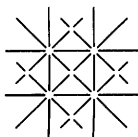
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Institute of Botany, University of Basel, Switzerland

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Candidates should be dedicated toward and experienced in scientific publishing, and appreciate working with students (e.g. supervision of MSc projects). Send short electronic applications before July 30 to ch.koerner@unibas.ch (no manuscript attachments please, names of referees welcome). A personal interview is possible at the ESA meeting in Madison or at the GfÖ meeting Basel.

For information about the local research environment, see: <http://www.unibas.ch/botschoen/>.



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To apply: Send CV and names and addresses of three references to:

Margaret Carroll, Acting Chair
Department of Biology
Framingham State College
100 State Street
Framingham, MA 01701



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Scientist/Sr. Scientist

Using your strong technical skills, you will evaluate, develop, and implement analytical methods as well as *in vitro* and *in vivo* assays for assessing ADME properties of drug candidates employing relevant chemical, cellular, biochemical, or molecular tools. You will also contribute to the preparation of reports and presentations for communication of experimental results. We require a BS/MS in Pharmaceutical, Chemical, or Biological Sciences or related field with up to 3 years of relevant experience. More than one position at this level is available. Previous expertise in drug metabolism/transporters or small lab animal surgery is desirable. (Job Code: 01-0464 or Job Code: 01-0466)

Investigator/Sr. Investigator

With your expert knowledge of drug metabolism, you will implement *in vitro* assays to assess mechanisms of absorption, distribution, metabolism and elimination of GSK compounds. You will analyze and communicate data in the context of drug development and contribute your expert knowledge to cross functional teams evaluating *in vitro/in vivo* and cross-species extrapolations. You will maintain a current awareness of developments in the drug metabolism/disposition area through the literature and attendance at scientific meetings and propose new approaches, when appropriate, to ensure that departmental activities remain state-of-the-art. We require a Ph.D. in Pharmaceutical, Biological or Chemical Sciences or related field with up to 5 years of relevant experience. Good understanding of physiology and/or pharmacokinetics is preferred. Interest in developing expertise in data-mining and/or *in silico* approaches to analyze and model results is desirable. (Job Code: 01-0267 or Job Code: 01-0360)

Compliance/Computer Validation Specialist

Utilizing your knowledge and technical understanding of FDA requirements for computer validation, you will ensure policy and procedure compliance as you participate in computer validation projects and committees. Establishing and managing a validation master plan and project plans as well as designing, reviewing and approving computer validation protocols and reports will also be a vital part of your role. Additional responsibilities will include providing support for quality management and GLP infrastructure, systems and processes. A BS in a biological, chemical, pharmaceutical, or computer science along with 2 years of experience with quality assurance and computer systems validation in the pharmaceutical industry are required. Demonstrated expertise with the preparation of validation documents, such as IQ, OQ and PQ protocols, is also necessary. Experience with Good Laboratory Practices is desirable. (Job Code: 01-0159)

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**ICRAF**

International Centre for Research in Agroforestry Recruiting a Senior Soil Scientist and a Plant and Soil Analysis Laboratory Manager

The International Centre for Research in Agroforestry (ICRAF) invites applications for two positions in its Ecosystem Processes and Management Programme. This Programme is responsible for process-level biophysical research in agroforestry systems and has scientists posted in several countries in Africa, Latin America, and Southeast Asia. Both positions will be based at ICRAF's headquarters in Nairobi, Kenya.

Position 1. Senior Soil Scientist

Reporting to the Leader of ICRAF's Ecosystem Processes and Management Programme, the scientist will be expected to (1) Lead the global project on Carbon and Nutrient Cycling and oversee the expansion of this research area globally; (2) Cultivate relationships with the donor community and mobilize resources to fund activities of this project; (3) Conduct cutting-edge research that contributes to analyses of the role of trees in agricultural landscapes on carbon and nutrient cycling and changes in nutrient cycles in relation to land-use changes in agricultural landscapes; and (4) Interact with scientists from other Research and Development programmes.

Qualifications:

The successful candidates are expected to have a Ph.D. degree or equivalent with specialization in soil science, agroforestry, biogeochemistry, or another relevant field, strong conceptualization and analytical skills, strong donor relation and fund raising skills, a strong publication record, and at least 6 years of experience post Ph.D. conducting research on land management issues in the tropics. Modelling experience will be considered a plus.

Application deadline is 31 August 2001.

Position 2. Plant and Soil Analysis Laboratory Manager

Reporting to the Leader of ICRAF's Ecosystem Processes and Management Programme, the Laboratory Manager will be expected to fully manage and ensure the day-to-day running of the laboratory including supervising laboratory staff, development of new analytical methods, maintenance and repair of equipment, QA/QC, overseeing purchasing of equipment and material, invoicing and financial management. ICRAF has ambitious plans to expand laboratory services and raise the level of sophistication of our analytical capabilities to the state-of-the-art. The successful candidate must demonstrate the ability to work with modern analytical equipment.

Qualifications:

The successful candidate will have an M.Sc. or Ph.D. (ABD considered) in chemistry, agricultural chemistry or related discipline, six years experience in analytical chemistry, preferably in a field related to agriculture, mechanical/electrical aptitude, including ability to troubleshoot equipment problems and perform on-site repairs and proficiency in English. Experience in developing countries is desirable. Application deadline is 31 August 2001.

Terms of offer

ICRAF offers an internationally competitive salary and benefits package, and a collegial and gender-sensitive working environment. The contracts are for continuing appointment up to 10 years, subject to a 1-year probation period, annual assessment of performance, continued relevance of the position and availability of resources. The duty station for all the positions will be at ICRAF headquarters in Nairobi. Applicants are invited to send a detailed curriculum vitae and the names and addresses of three referees (including telephone, fax numbers and email addresses). All correspondence should be addressed to **Human Resources Unit, ICRAF, PO Box 30677, Nairobi, Kenya; tel: +254 2 524000 or +1 650 833 6645; fax: +254 2 524001 or +1 650 833 6646; email: t.mbinda@cgiar.org**. Please indicate your recruitment source in your application.

ICRAF strongly believes that staff diversity promotes excellence, and strongly encourages applications from women and from citizens of developing countries.

Full job descriptions can be found on our website at <http://www.cgiar.org/icraf>

**Rensselaer***Why not Change the World?*

Associate Vice President Research Development and Administration

Rensselaer Polytechnic Institute, has an excellent opportunity for an experienced professional in a dynamic research and educational environment.

The Associate Vice President for Research will have responsibility to assist the Vice President for Research in all matters related to furthering the research enterprise at Rensselaer, and will act in place of the Vice President when he/she is away from campus. The Associate Vice President will assume responsibility for various matters related to faculty services, faculty outreach, as well as the management of interdisciplinary research centers, and management of core research facilities. The Associate Vice President will work with faculty on the technical aspects of proposal preparation, enhance services regarding award information, and coordinate major proposal development with faculty teams. The Director of the Office of Contracts and Grants will report to the Associate Vice President. In this role, the Associate Vice President will be responsible for providing effective services and for the development of new and innovative capabilities to improve efficiency and access to critical information.

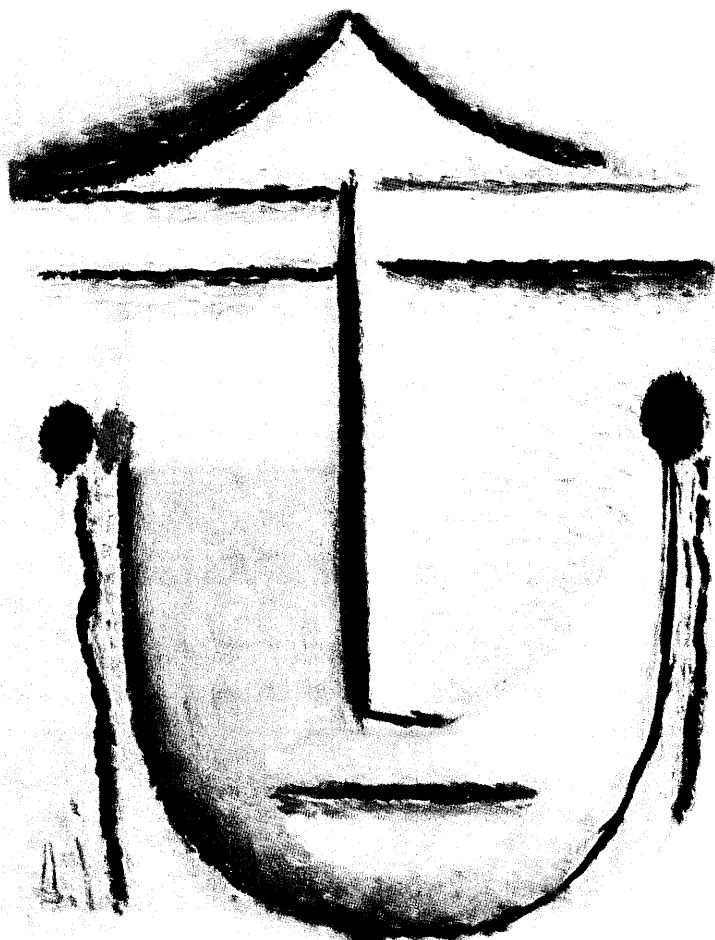
The Associate Vice President will work with the Director of Research Development and Administration to cultivate relationships and build partnerships with key federal agencies, federal labs, corporations, foundations, and other research universities in areas of high scientific priority. In conjunction with the Director of Research Development and Administration, the Associate Vice President will engage the faculty with these constituencies in developing programs.

The individual selected for this position will hold an earned doctorate and is expected to have several years of teaching and/or research experience in an academic or similar research setting. He/she should possess demonstrated administrative skills and have specific experiences in working with external funded programs and their sponsors. Background and experiences in working in the life sciences and biotechnology preferred. The Associate Vice President will report to the Vice President for Research. He/she should be capable of working with diverse constituencies, possess effective written and verbal communication skills, and have demonstrated experience in developing university based research programs. For qualified individuals, appointment to appropriate faculty position is possible.

All applicants should send a Curriculum Vitae and a list of suitable references indicating code SCIE-RD to the address listed below.

**Human Resources
Rensselaer Polytechnic Institute
110 8th Street, Troy, NY, 12180-3590**

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Employment Opportunities

ANTIBODY DEVELOPMENT SCIENTIST

PhD/MD in Immunology, Cell Biology, Molecular Biology, or related field with experience developing antibodies as therapeutics.
Job Code: VA6

PROTEIN DEVELOPMENT SCIENTIST

PhD or equivalent in Protein Chemistry, Biochemistry or related field and 2 years postdoctoral training in recombinant protein purification with cGMP experience.
Job Code: YL

PROTEIN DEVELOPMENT SCIENTIST

PhD in Protein Chemistry, Biochemistry or related field and experience in small-scale protein purification and analysis of bacterial/yeast cells, including familiarity with cGMPs.
Job Code: DS-1

PROTEIN DEVELOPMENT SCIENTIST

PhD/MS in Bio/Chemical Engineering and expertise in small-scale protein fermentation using bacterial/yeast cells and bioprocess operations in a cGMP environment.
Job Code: DS-2

BIOPROCESS ENGINEER/ SCIENTIST

MS/PhD in Bio/Chemical Engineering or related field and cGMP experience in the production of novel proteins from yeast expression systems.
Job Code: SH

BIOPROCESS ENGINEER

BS in Bio/Chemical Engineering with experience in yeast expression systems, fermentation, and/or recovery bioprocess operations in a cGMP environment.
Job Code: CM

As a leader in the field of genomics, we offer exciting opportunities for future growth, competitive salaries and excellent benefits--and a chance to be a part of one of the most exciting fields of healthcare research today. For more information about careers at HGS, current openings or to submit a resume, contact: Human Resources, 9410 Key West Avenue, Rockville, MD 20850; email resume@hgsi.com; or visit our website to apply online or learn more about our company and careers: www.hgsi.com. Equal Opportunity Employer

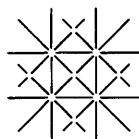
The University of Basel invites applications for a

Professorship in General and Applied Petrology

Depending on qualifications the position will be on the level of assistant professor or associate professor. The position is tenure-track for both levels.

The Department of Earth Sciences expects the successful candidate to have a comprehensive knowledge of Mineralogy and Petrology and to link the Earth Sciences with the newly developed curriculum in Environmental Geosciences. She or he will teach introductory and advanced courses in Metamorphic and Magmatic Petrology and parts of the Environmental Geochemistry. The research of the new professorship should focus on the application of field-petrological concepts and methods to problems related to human impact on the environment.

Applications by women scientists are specifically welcome. Applications including a letter of interest, vita, list of publications, experience in research and teaching, plan of future research, should be submitted by October 1, 2001 to:



UNI
BASEL

Prof. Andreas Zuberbühler, Dean
Faculty of Science
Klingelbergstrasse 50
CH-4056 Basel, Switzerland
Marianne.Hess@unibas.ch

UNIVERSITÉ
DE
LAUSANNE



Faculty Positions in Physics



The UNIL, in close collaboration with the EPFL, is expecting applications for two assistant professor appointments (tenure track). The successful candidates will be hired by the UNIL and, in 2003, transferred to the EPFL within the ongoing general reorganization of basic sciences in Lausanne.

We seek outstanding candidates with an excellent track record and an interdisciplinary vision and a strong record of accomplishments. Successful applicants will initiate independent, creative research programs and participate in both undergraduate and graduate teaching. Substantial start-up resources will be available.

The first appointment will be in the area of crystallography and diffraction, with particular emphasis on the study of dynamical processes (structural, electronic, magnetic) and applications to Physics and Life Sciences. Strong involvement of the candidate with large scale instrumentation (SLS, ESRF, SINQ, ILL) is expected.

The second appointment will be in the area of experimental soft matter physics and/or experimental biological physics with emphasis, but not exclusively, on the development of local optical probes and related new techniques.

For further information contact Prof. W.-D. Schneider (wolf-dieter.schneider@ipmc.unil.ch) or Prof. G. Margaritondo (giorgio.margaritondo@epfl.ch) and look at <http://www-sphys.unil.ch/> and <http://dpwww.epfl.ch/>.

Applications, including curriculum vitae with publication list, brief statement of research interests (three pages or less) and the names and addresses (including e-mail) of at least five references, must be sent before **October 15, 2001** to the Dean of the Faculty of Sciences, Université de Lausanne, Collège Propédeutique, CH-1015 Lausanne.

Candidates
of either
sex are
equally
encouraged
to apply

KARO BIO

SCIENTIST PROTEIN EXPRESSION & PURIFICATION

Karo Bio AB is an international pharmaceutical company, with research operations in Sweden and the U.S., specializing in drug discovery and emerging technologies that accelerate lead identification. Our research facility, located in the Research Triangle Park, is currently seeking scientists to join the Protein Expression and Purification group. Good communication skills within a team environment and the ability to execute experiments independently in multiple concurrent research areas are a must for both positions.

Scientific Position 1:

This candidate must have either a Ph.D. in Biochemistry, Molecular or Cell Biology and 2+ years of postdoctoral experience or a B.S./M.S. and 8+ years of laboratory experience. Considerable experience in protein expression using baculoviral as well as other eukaryotic and bacterial expression systems is necessary. In addition to strong baculoviral expression expertise, this position requires molecular biology skills and experience with basic protein purification techniques. The scientist in this position will be involved in the development and implementation of new technologies and in problem solving for the expression and purification of challenging target proteins.

Scientific Position 2:

This candidate must have a Ph.D. in Biochemistry or Molecular Biology with 4+ years of industrial experience in protein purification and characterization using various chromatographic techniques, gel electrophoresis, and biophysical protein characterization techniques. Strong skills in various aspects of molecular biology, including PCR, gene cloning, and expression vector manipulation, as well as experience with phage display, are expected. Experience with characterizing protein-peptide interactions using fluorescence polarization, time-resolved fluorescence, as well as surface plasmon resonance (Biacore), is required. Proven skills in writing scientific reports, oral presentations and coordinating research projects with collaborators are necessary.

Please submit your resume by either U.S. mail or e-mail to:

Rita Mannella, PHR, H.R. Manager
Karo Bio USA, Inc.
4222 Emperor Boulevard, Suite 560
Durham, NC 27703-8466
e-mail: jobs@karobio.com

(Paste/type in resume first with cover letter at the end. File attachments will **not** be accepted. No phone solicitations or faxes, please!)

For more information about Karo Bio, please visit our Web site:
www.karobio.com

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Zyomyx, Inc., a world leader in the development of protein biochip technologies with applications in high throughput proteomics is seeking highly talented, experienced scientists.



Head, Organic Chemistry

Job Code S300247

Ph.D. in Synthetic Organic, Bioorganic, or Physical Organic Chemistry. 3-8 years of experience in the pharmaceutical, chemical or biotech industry. The group's focus is on the design, multi-step synthesis, purification and characterization of novel key compounds used as candidates for protein bioconjugation and surface functionalization. In addition, the position involves directing and implementing scale-up and peptide syntheses laboratories. Strong publication portfolio and excellent leadership skills required.

Head, Protein Production

Job Code S300248

Ph.D. in Biochemistry or Chemical Engineering; 8+ years of experience in pharmaceutical or biotech industry. Hands-on experience in manufacturing (including GMP and ISP 9000 systems) and process development is required.

Research Scientist - Biointerface Research Group

Job Code S315133

Ph.D. in Biophysical Chemistry or related field with strong background in molecular processes at solid-liquid interfaces, particularly protein-surface interactions required. Excellent skills in surface-analytical methods necessary.

Research Scientist-Surface Chemistry

Job Code S3002411

Ph.D. in Chemistry with 3+ years of experience in Surface/Materials Chemistry with emphasis on organic thin film and self-assembly structures. Excellent knowledge and experience with surface-analytical techniques (XPS, STM, AFM, FTIR, CV, SPR, Ellipsometry, NEXAFS, TOFSIMS) necessary.

Research Scientist-Product Dvlp. Immunodiagnosics

Job Code S3002412

PhD in Biochemistry, Chemistry or related field with 5+ years of industrial experience in the field of surface-based immunodiagnostic device manufacturing or product development required.

Head, Applications Development

Job Code S300249

Ph.D. in Biochemistry, Molecular Biology, Chemistry; M.D. preferred; 8+ years experience in pharmaceutical industry, drug development, or proteomics. Position is focused on evaluation and implementation of protein biochip applications.

Head, Engineering

Job Code S3002410

BS/MS in electrical engineering, automation & robotics, or mechanical engineering. 7+ years industrial experience in integrating precision mechanical design with automation and robotics; knowledge in optical/fluidic components and machine vision necessary. Established team orientation and demonstrated management skills required.

Research Scientist-Polymer Synthesis/Organic Chemistry

Job Code S3002413

Ph.D. in synthetic organic chemistry and extensive experience in all aspects of polymer synthesis and characterization required. Responsible for design, multi-step synthesis, purification and characterization of novel key polymers and nanosized macromolecules used for applications in materials science, protein bioconjugation, and biomaterials.

Research Scientist-Assay Dvlp.

Job Code S400169

Ph.D. in Cell Biology or Biochemistry and 5+ years of industrial experience related to mammalian cell lines and cell extracts. Experience in cell fractionation and biochemical assay development is essential. Experience in treatment of whole blood and other human patient material is a plus.

Senior Research Associates and Research Associates

Job Code S300

We also have multiple positions that require a BS/MS degree with a background in Biochemistry, Materials Science and Organic Chemistry.

For details, please visit the employment page of our website www.zyomyx.com.



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Zyomyx, Inc., Human Resources, 26101 Research Road, Hayward, CA 94545

Fax: 510/264-0289 hr@zyomyx.com Zyomyx, Inc. is an Equal Opportunity Employer www.zyomyx.com



Chair
Department of Pharmacology
and Experimental Therapeutics
Loyola University Chicago
Stritch School of Medicine

Applications are invited for the position of **Chair, Department of Pharmacology and Experimental Therapeutics, Loyola University Chicago, Stritch School of Medicine**. The Department is currently well funded, with research focused in neuropharmacology, molecular pharmacology, and hematopharmacology. Applicants must have a nationally recognized research program, be committed to Ph.D. graduate education, and be academically qualified for the rank of professor. In addition, the successful applicant will have excellent interpersonal and leadership skills and will have the vision and ability to move the department to the next level of national recognition and achievement.

Please submit nominations and applications (including curriculum vitae) to:

Dr. Katherine L. Knight
Department of Microbiology & Immunology
Loyola University Medical Center
2160 South First Avenue
Bldg. 105/ Room 3846
Maywood, IL 60153



Universität Heidelberg
C 4 Professor (Chair) for
Biodiversity of Plants
at the University of Heidelberg

The above position is available on April 1st 2002 at the Heidelberg Institute of Plant Sciences (Heidelberger Institut für Pflanzenwissenschaften), Faculty of Biology.

The University of Heidelberg and the Heidelberg region offer an extensive and high-quality environment for biological research. Visit the homepage of Heidelberg University for more information (<http://www.uni-heidelberg.de>).

The position will be equipped with excellent start-up and long-term financing. The successful candidate should perform first-class research in the area of plant biodiversity (e.g. molecular systematics) and will participate in teaching basic and advanced classes in botany. Participation in the Master courses Molecular Cell Biology and Molecular Biotechnology is encouraged.

The position requires high expertise in systematics because the successful candidate will also be head of the Botanical Garden.

Success in fund raising and readiness to participate in interdisciplinary research in central scientific institutions in the university will be expected.

In case the candidate is not already a professor, the position is initially limited (according to 67 Abs. 1 of the state university rules) to a 5-year period, however, with excellent chances of ensuing tenure. The German "Habilitation" or demonstration of having reached an equivalent research/teaching standard is required. As the University of Heidelberg wishes to increase its proportion of female scientists, women candidates are particularly encouraged to apply. Handicapped candidates with equal qualifications will be preferred.

Candidates should send CV, a research description, list of publications and grant applications, names and addresses of at least 3 referees and copies of their 5 most important publications to: Prof. Dr. M. Wink, Head of the Search Committee, Institut für Pharmazeutische Biologie, Im Neuenheimer Feld 364, D-69120 Heidelberg, Germany. e-mail: wink@uni-hd.de; Tel.: 0049-6221-544881. Deadline of application: 31 August 2001.



Rensselaer

Why not Change the World?

Operational Director
Biotechnology and Interdisciplinary
Studies Research Center

The Biotechnology and Interdisciplinary Studies Research Center has been formed as a focal point for biotechnology and biosciences research activities at Rensselaer, and will reside in a new 200,000 square foot building that is currently in planning and construction.

Reporting to the Director, the Operational Director will manage the technical resources, infrastructure, and staff of the Center, and ensure it is maintained and allocated in the best interest of the scientific programs of the Center. This individual will also oversee the management of proposal development, awards management, and financial reporting for the Center programs. The technical and administrative staff of the Center will report to the Operational Director. This individual will work closely with the Division of Administration and will serve as the Center's primary contact and coordinator for activities associated with the design and construction of the Center. This position will also be responsible for coordinating programs with faculty researchers who will occupy the facility; partner with faculty and staff to attract and allocate resources for major sponsored programs; develop major research initiatives. The individual should have at least 5 years of experience in conducting research in an academic or other major institutional setting. A Ph.D. is desirable.

All applicants should send a Curriculum Vitae and a list of suitable references indicating code SCIE-BIS to the address listed below.

Human Resources
Rensselaer Polytechnic Institute
110 8th Street, Troy, NY 12180-3590

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FELLOWSHIPS



Marilyn Gentry Fellowship Program
in Nutrition and Cancer

The University of North Carolina at Chapel Hill (UNC) and the American Institute for Cancer Research/World Cancer Research Fund International (AICR/WCRF) invite applications from postdoctoral researchers for the Marilyn Gentry Fellowship Program in Nutrition and Cancer in the UNC School of Public Health Department of Nutrition. The Marilyn Gentry Fellowship Program in Nutrition and Cancer was established by UNC and by AICR/WCRF, which is the only major cancer charity that focuses exclusively on research and education about the relationship among diet, nutrition and cancer.

The purpose of the Marilyn Gentry Fellowship Program in Nutrition and Cancer is to develop leaders in cutting-edge nutritional research as it relates to cancer prevention, treatment and survivorship. The two-year fellowships are designed to attract and support individuals at the transition stage between a postdoctoral position and the assistant professorship level. Fellows will be appointed at the rank of Research Assistant Professor of Nutrition and will receive two years of organized mentoring on the specific skills needed to succeed as academic scientists. Fellows will develop and acquire the scientific body of data they need to compete for grant funding and help establish them as independent investigators.

Preference will be afforded to citizens of countries where AICR/WCRF has active programs.

Ongoing formal review of applications will begin on August 1, 2001 and continue until the fellowships are filled.

Applications available at <http://www.sph.unc.edu/nutr> and <http://www.aicr.org>

The University of North Carolina at Chapel Hill is an Equal Opportunity/ADA Employer. Women and minorities are encouraged to apply.

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THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE

The R.W. Johnson Pharmaceutical Research Institute, located in Raritan, New Jersey, conducts pharmaceutical research in therapeutic areas including anti-infectives, central nervous system, dermatology and oncology.

Scientist: Bioinformatics (Toxicogenomics)

(Req. Code 01-2737SCI)

In this role, you will analyze gene expression data from DNA microarray studies. Using commercially available and proprietary software, you'll interact with our internal Bioinformatics group as well as statisticians, toxicologists and pathologists in Preclinical Development to develop applications of this technology for toxicity evaluation. You must have a Ph.D. in computer science, molecular biology, genetics or a related discipline. Excellent computer skills and experience in bioinformatics required.

Research Assistant (Toxicogenomics)

(Req. Code 01-2738SCI)

In this role, you will conduct gene expression studies. This involves weighing and formulating test material; performing RNA isolation and quantitation; and preparing RNA samples for shipping. You'll also order, archive and maintain laboratory supplies, reagents and equipment. You must have a BS in molecular biology, biochemistry or equivalent and experience with biochemical or molecular biology techniques.

Senior Scientist (In Vitro Toxicology)

(Req. Code: 01-2742SCI)

In this role, you will evaluate, validate and implement in vitro assays for toxicity and drug metabolism. This includes bench work, scientific troubleshooting, and supervision of Research Assistants as well as collaboration with our internal high throughput screening group. You must have a Ph.D. in cell biology or a related discipline and experience with cell culture and cell-based assays. A publication record as well as excellent communication and interpersonal skills are required.

Research Associate (In Vitro Toxicology)

(Req. Code: 01-2743SCI)

In this role, you will perform in vitro assays for toxicity and drug metabolism. This involves study design; analyzing and presenting data; and writing reports. You must have a BS in biology or a related discipline and experience with cell culture techniques. PC proficiency is required.

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Research Assistant (In Vitro Toxicology)

(Req. Code: 01-2739SCI)

In this role, you will perform in vitro assays for toxicity and drug metabolism. This involves data analysis; maintenance of laboratory supplies; and cell culture. You must have a BS in biology or a related discipline and experience in cell culture techniques. PC proficiency is required.

Postdoctoral Fellowship

(Req. Code: 01-2735 SCI)

You will participate with a team using modern experimental approaches to create streamlined mechanism-based assays for evaluating the potential toxicity of developmental pharmaceuticals. This involves collaborating in the development and validation of novel in vitro assays for assessment of toxicity using gene expression microarray technology and high throughput screens. You must have a Ph.D. in biochemistry, cell biology, pharmacology, molecular biology or a related field and an extensive background in cell biology and cell culture techniques. Knowledge of biochemistry/molecular biology including a record of publication is required. Experience in indices of cellular toxicity, genotoxicity, monitoring gene expression, detection of mRNA by hybridization and/or fluorescence assays in cultured cells is necessary.

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Johnson & Johnson



**DEPARTMENT OF NEUROSCIENCE
UNIVERSITY OF MINNESOTA
Tenure-Track Assistant Professor**

Regulation of Gene Expression in the Nervous System

The Department of Neuroscience at the UNIVERSITY OF MINNESOTA – Twin Cities is seeking two faculty members to strengthen its existing programs in cellular and molecular neuroscience. The opportunity to add faculty resulted from a state-supported initiative to strengthen the University's research enterprise in cellular and molecular biology. Cellular and molecular neuroscientists working in signal transduction, control of transcription, protein targeting, neurodevelopment, and cell-cell communication are encouraged to apply. The initiative includes construction of a state of the art research building scheduled for completion next year which will house the new hires. This initiative has made it possible to offer an exceptional compensation and startup package. The ideal candidates will complement current departmental strengths in cellular, molecular, developmental, and systems neuroscience. The starting date is July 2002.

The Neuroscience Department was established two years ago. It includes 27 faculty members, three of whom are new this year. The department is part of a larger community of neuroscientists on campus that includes over 80 laboratories as well as the Graduate Program in Neuroscience. See www.neurosci.umn.edu and www.neuroscience.umn.edu.

Applicants must have a Ph.D. and/or M.D. degree. Desired experience includes at least two years of postdoctoral or equivalent experience, and a strong publication record. The successful candidates must be able to secure permanent resident status or be U.S. citizens and will be expected to develop vigorous, independent research programs that will lead to external funding. Teaching of undergraduate, graduate, and/or professional students will be expected. Please send a curriculum vitae, a statement of research interests, and three letters of recommendation that consider both research and teaching potential to:

**Cellular and Molecular Neuroscience Search Committee
Department of Neuroscience, University of Minnesota
6-145 Jackson Hall, 321 Church Street, S.E.
Minneapolis, MN 55455 USA
or hendr056@tc.umn.edu**

Electronic versions of the required information may be e-mailed but must be followed with a hard-copy for the official search files. Review of applications will continue until the positions are filled.

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Based in Cambridge, MA, USA, EPIX Medical, Inc. (NASDAQ:EPIX) is developing targeted contrast agents to improve the capability and expand the use of magnetic resonance imaging (MRI) as a tool for diagnosing human disease. We currently have the following opportunity available:



**Patent Attorney
or Agent**

EPIX Medical, Inc. seeks a Patent Attorney or Agent with 2-3 years experience in patent prosecution, litigation, and client counseling. The successful applicant should have a Ph.D. in Chemistry, Biophysics, or Biochemistry; a JD from an ABA accredited law school; and must be a registered patent agent and member of MA Bar or equivalent. Patent Agents with the same scientific background and similar legal experience will also be considered. The position involves portfolio development and litigation management, close interaction with outside counsel, and strategic IP analyses regarding the development and marketing of proprietary products. Job Code: PA-RL

We offer a competitive salary, a comprehensive benefits package including stock options, and career advancement opportunities within a growing company. Interested candidates should forward their CV indicating Job Code to: amartin@epixmed.com, EPIX Medical, Inc., 71 Rogers St., Cambridge, MA 02142 or Fax (617) 250-6041.

Equal Opportunity Employer

Visit our web site at www.epixmed.com.

**Postdoctoral Position
Mayo Clinic Rochester
Rochester, MN**

A postdoctoral fellowship position is available immediately in the laboratory of Dr. Richard Vile, a faculty member within the Molecular Medicine Program. The position involves the construction of targeted vector systems to express a highly potent class of cytotoxic and immunostimulatory genes known as the Fusogenic Membrane Glycoproteins (*Cancer Res.* 60:1492, 2000; 60:6396, 2000; *Gene Ther.* 19:1656, 2000).

Expertise in any or all of molecular biology, virology, immunology and cell biology would be required. Salary will be determined by the successful candidate's experience. There is also an attractive benefit package. Mayo Foundation is a non-profit physician-led clinical practice integrated with education and research in a unified multi-campus system.

Application including a CV, summary of past accomplishments, and the names of three referees should be sent to:

**Dr. Richard G. Vile, PhD
Mayo Clinic Rochester
Molecular Medicine Program
Guggenheim 18
200 First St SW
Rochester, MN 55905
Email: vile.richard@mayo.edu
<http://www.mayo.edu/research/mmp/>**

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

GLOBAL OPPORTUNITIES

**Team leader and research scientist
positions in protein crystallography**

Positions for a team leader and several research scientists are available in the High Throughput Factory (HTPF) at RIKEN Harima Institute, SPring-8, Japan. The project is part of the RIKEN Structural Genomics/Proteomics Initiative (RSGI, <http://www.rsgi.riken.go.jp>) and consists of five teams covering the full range of protein crystal structure determination activities. The research of HTPF focuses on high throughput structure determination using two dedicated beamlines at SPring-8. We are also interested in methodological development, including instrumentation for high throughput structure determination through collaboration with physics groups. HTPF is well equipped for all aspects of structural work including protein expression, purification and crystallization. We will have two in-house X-ray diffractometers and a powerful computational environment composed of calculation servers, graphics workstations and a Linux cluster of a large number of PCs.

Applicants must have experience in determining protein structures by X-ray crystallography. A background in biochemistry and molecular biology is preferable. To qualify for the team leader position, you should have several years academic or industrial postdoctoral experience and a proven record of research success in protein crystallography. Although the positions are generally available from April 2002, an earlier starting date may be negotiated depending on personal circumstances. Applications should include a full C.V. with contact information, a list of publications, a research plan, and the names and addresses of two referees who can be contacted prior to an interview. Please send applications to:

**Dr. Masashi Miyano, Director,
Drs. Naoki Kunishima and Arno Paehler, Team leaders,
High Throughput Factory, RIKEN Harima Institute,
1-1-1 Kouto, Mikazuki-cho, Sayo-gun,
Hyogo 679-5148, Japan.
E-mail: miyano@spring8.or.jp
FAX: +81 791 58 2815
c/o Sachiko Arimoto; secretary,
E-mail: sachi@spring8.or.jp**



David Wassell
6906 Ten Tons Ln
Baltimore, MD 21206
(410) 555-7712 (home)
(410) 555-2131 (work)
dwassell@aol.com

EDUCATION

- 1996 Ph.D. Graduation Date: June 31, 1997
Department of Immunology - Cornell University Medical College
Memorial Sloan-Kettering Cancer Center
- 1990 Bachelor of Science, Department of Biochemistry, University of Massachusetts

AWARDS AND HONORS

- 1990-present Research Fellowship from the Graduate School of Cornell University Medical College
- 1990 Magna Cum Laude
- 1987-1990 Dean's List
- 1986 John Danforth Leadership Award

PUBLICATIONS

1. John Doe, Gustave Hall, and Sossity Rapparell. Coordinate Regulation of HLA Class II Gene Expression. *Complex. Molecular Immunology*, Vol. 66, No. 11/12, pp. 490-511, 1998.
2. John Doe and Sossity Rapparell. Identification of Alternatively Spliced Transcripts in the HLA Class II Gene. *Lines from a Bare Lymphocyte Syndrome Patient*. [In Preparation]

REFERENCES: Available upon request.

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INDIANA UNIVERSITY SCHOOL OF MEDICINE

**Chair, Department of
Pharmacology and Toxicology**

Indiana University School of Medicine seeks candidates for the position of Chair, Department of Pharmacology and Toxicology. Candidates must have a M.D. and/or Ph.D. degree, an active and competitive research program, an international reputation, a distinguished record of scholarly achievement, demonstrated excellence in teaching with a commitment to graduate and medical education, and administrative experience. Salary commensurate with qualifications. Please send curriculum vitae and references to **Robert A. Harris, Ph.D., Chair, Search and Screen Committee, Fesler Hall 318, 1120 South Drive, Indianapolis, Indiana 46202-5114**. Applications will be reviewed as received. *Indiana University is an AAEOE, M/F/D.*

<http://www.medicine.iu.edu/home.html>

IMMEDIATE OPENINGS

**The University of Georgia
Is Seeking Beamline Personnel for the
Southeast Regional Collaborative
Access Team's Beamlines at the APS of
the Argonne National Laboratory**

The Southeast Regional Collaborative Access Team (SER-CAT), a user-based consortium operated by the University of Georgia on behalf of 22 major Southeast and Midwest universities and research institutions, has immediate openings for the following positions.

- **Sector Director • Beamline Scientist and**
- **Macromolecular Crystallographer**

These positions are part of a staffing buildup as SER-CAT transitions from construction to full operation. The positions will be resident at APS in Argonne, IL and will hold faculty/staff appointments at the Univ. of Ga. Detailed job descriptions may be found at <http://BCL15.bmb.uga.edu/SERCAT/new.html>

Interested candidates should submit their resume, a listing of publications, and the names and addresses of at least four references to John Rose, Chair, SER-CAT Operation and Management Planning Committee, University of Georgia, Department of Biochemistry and Molecular Biology, B204B Life Sciences Building, Athens, Georgia 30602-7229 no later than August 15, 2001. **The University of Georgia is an EEO/AA Institution.**

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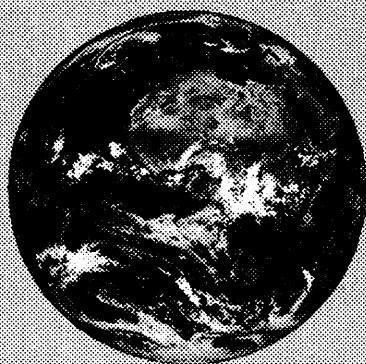
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SKIN SCIENCE RESEARCH**

**Research Scientists
Associate Scientists**

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SKIN SCIENCE RESEARCH**

**Research Scientists
Associate Scientists**

We offer a unique challenge to individuals interested in applying innovative science to the clinical research process. These positions bridge bioscience and clinical research to provide a greater understanding of the biochemistry and physiology of human skin. Our skin research projects are complex and scientifically rigorous and require novel and creative approaches to gain greater understanding and significant insights into skin conditions, such as dryness, irritation, color, and ageing. We conduct the majority of our studies at our on-site Clinical Research Center so travel requirements are minimal and the team members you will work with are some of the best trained and intellectually stimulating scientists in skin research.

Candidates must possess academic credentials, (BS, MS, and or PhD) in the biosciences, pharmacy, or nursing, have a good working knowledge of biostatistics and be comfortable working in a team environment. A sound understanding of skin research is more important to us than experience in the clinical process but possessing both would be an advantage. Since our clinical team communicates with all levels of management, other innovation centers and academia, excellent presentation skills are required. We have a knowledge driven culture and we seek scientists capable of enabling and sharing learning that results in innovative technology and superior product design.

Offers include a competitive salary, flexible benefits including tuition assistance, and a dynamic environment filled with learning and discovery beyond conventional scientific boundaries. For consideration please forward your resume to: Human Resources, Dept. CR-S, Unilever Research US, 45 River Road, Edgewater, NJ 07020 or E-Mail: job.mca@unilever.com. Please place only the letters CR-S as the subject of the e-mail. We appreciate your interest in our company and will contact applicants who most closely meet our immediate requirements. Applicants must be authorized to work in the USA. Unilever is an Equal Opportunity Employer m/f/d/v.



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FULL TENURE TRACK FACULTY POSITION FOR A CANCER RESEARCH SCIENTIST

The Meharry Medical College/Vanderbilt-Ingram Cancer Center Partnership (MMC/VICC Partnership) is currently soliciting applications for one cancer basic research scientist for a full tenure track faculty position at Meharry Medical College with a joint appointment at Vanderbilt University School of Medicine. The qualified candidate will also be considered for either full or an associate membership status at the VICC. Also, the candidate will be expected to develop and maintain a fully funded competitive research. Initially, the position will be fully funded by the NCI's U54 Cancer Center Partnership Grant to the MMC/VICC Partnership, whose principal investigators are Dr. Harold Moses, Director of VICC, and Dr. Samuel Evans Adunyah, Chairman of Biochemistry at Meharry Medical College. Basic scientists (Ph.D. or M.D./Ph.D.) with cancer research interests in any of the areas listed below are encouraged to apply by August 30, 2001.

- Regulation of Cell Growth and Differentiation
- Receptors and Growth Factors
- Signal Transduction in Cancer Progression and Control
- Cytokines and Regulation of Cellular Functions
- Hematopoiesis and Hematopoietic Growth Factors
- Apoptosis
- Molecular Carcinogenesis
- Regulation of Gene Expression During Normal and Abnormal Growth
- DNA Damage and Repair
- Angiogenesis
- Cox Inhibitors in Cancer Control
- Cancer Progression, Metastasis and Intervention
- Biochemical/Pharmacological Basis for Cancer Drug Development

Please, send a full application with research description, current CV and references to

Dr. Samuel Evans Adunyah
Chairman of Biochemistry
Co-P.I., MMC/VICC Partnership
Biochemistry Department
1005 D.B. Todd Blvd.
Nashville, TN 37208

Dr. Samuel Evans Adunyah can be reached at: 615/327-6345; Fax: 615/327-6440; e-mail: sadunyah@mmc.edu

POSITION IN X-RAY CRYSTALLOGRAPHY

National Institute of Environmental Health Sciences National Institutes of Health Research Triangle Park, North Carolina

The Laboratory of Structural Biology, National Institute of Environmental Health Sciences, National Institutes of Health, invites applications for a principal investigator in the area of X-ray crystallography. The position will be filled at a junior, tenure-track level. Applicants should have a Doctoral degree and a clear record of accomplishment in X-ray crystallography. While applicants will be considered in all areas related to the structure of biological macromolecules, particular interest is in the development of a strong group to study the structure and function of proteins involved in determining biological responses to environmental stress. Time before tenure review will depend upon qualifications, but will not exceed 6 years. Salary will be commensurate with the experience and qualifications of the candidate. Federal benefits apply. Excellent space and research support are available.

For additional information concerning this position, contact Dr. John W. Drake, Search Committee Chair, at 919-541-3361 (e-mail drake@niehs.nih.gov). See website <http://dir.niehs.nih.gov/dir/sb/> for a laboratory description. Applications from women or minorities are particularly welcome. Interested parties should submit a curriculum vitae, a list of publications, reprints of up to five representative publications, a summary of past research and a description of future research plans and have three letters of reference sent by COB September 14, 2001 to: Ms. Tammy Locklear (HNV01-16) NIEHS Human Resource Management Branch P.O. Box 12233, Research Triangle Park, N.C. 27709. Phone: (919) 541-3317. e-mail: locklea1@niehs.nih.gov



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Biology Positions

We seek outstanding biologists to develop innovative combinatorial molecular and cellular strategies to address challenging problems in biomedical research and human disease. Biologists will combine functional small molecule, cDNA expression and antibody library screens with custom ultra-high throughput robotic systems to identify critical effectors in disease. Successful candidates will interact closely with a state-of-the-art, integrated technology platform (genomics, proteomics, bioinformatics, and high throughput screening), and biomedical research programs in neurobiology, immunology, signal transduction/cancer biology and microbiology/virology.

We are interested in biologists/biochemists with academic and/or industrial research experience (B.S., M.S., Ph.D.) who desire to participate in building a world class biomedical research program that includes the development and application of new technologies to significant medical and disease areas.

We also seek outstanding individuals with experience in cutting-edge laboratory robotics and automation.

Please submit C.V. and any supporting documents to:

Dr. Peter Schultz, Institute Director
Dr. Jeremy Caldwell, Director of Molecular and Cell Biology
Genomics Institute of the Novartis Research Foundation (GNF)
Job Code: JC

3115 Merryfield Row Suite 200, San Diego, CA 92121;
Fax: 858/812-1670; or Email: jobs@gnf.org
(subject line must include Job Code)

The Genomics Institute of the Novartis Research Foundation (GNF), located in the Torrey Pines area of San Diego, CA, is funded by the Novartis Research Foundation and dedicated to the development and application of new methods and techniques for genome-wide biological discovery and biomedical research. EOE

www.gnf.org

Molecular Toxicologist

National Institute of Environmental Health Sciences National Institutes of Health Research Triangle Park, North Carolina

The Laboratory of Computational Biology and Risk Analysis of the NIEHS announces a tenure-track position to develop an independent research program in molecular toxicology focusing on mechanisms of carcinogenicity and toxicity initiated through ligand-receptor interactions. Applicants should have a Doctoral degree or equivalent with experience or training in molecular toxicology and a strong record of research in molecular toxicology, with publications in peer-reviewed journals. Research interests may include any receptor-mediated toxicants such as TCDD, growth factors or steroids. Time before tenure review will be dependent upon qualifications, but not exceed 8 years. Salary is commensurate with background, and Federal benefits apply. Excellent research support will be available.

For additional information, contact Dr. Douglas A. Bell, Search Committee Chair, at (919) 541-7686. Applications from minorities and women are particularly welcome. Applicants should submit curriculum vitae, brief statement of research interests and arrange for 3 letters of recommendation to be sent and postmarked by August 30, 2001, to:

Ms. Celestine Edwards
(HNV01-09) NIEHS Human Resource
Management Branch
P.O. Box 12233, Maildrop EC-11
Research Triangle Park, NC 27709
Phone: (919) 316-4602
e-mail: edwards3@niehs.nih.gov



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PLANT/RANGELAND ECOLOGIST

The Desert Research Institute (DRI) seeks applicants for a research faculty position in Plant/Rangeland Ecology. The position may be filled as either a Research Associate (Masters degree) or Research Professor (Ph.D.). We seek an ecologist interested in ecology and management of natural resources on arid and semi-arid landscapes in the Great Basin and Desert Southwest. The individual selected will have the opportunity to interact with a diverse group of DRI scientists and government land managers while developing a natural resource management plan for the Nevada Test and Training Range (NTTR). Applicants should have strong communication skills, experience developing research proposals, and the ability to present and publish research findings. The position is 100% research with existing contracts providing funding for 2-3 years. After 3 years, the successful candidate will be expected to develop an externally funded research program. The position is based at DRI's facilities in Las Vegas. Applicants must possess a Department of Energy "Q" Security Clearance, or a Department of Defense "Top Secret Security Clearance", or be capable of obtaining them. Further details can be found at <http://www.dri.edu>. Submit a curriculum vitae; official transcripts; a letter describing your qualifications for the position; a statement of research interests; and the names, addresses, email addresses, and telephone numbers of three references. Review of applications will begin 7/20/01 and continue until the position is filled. Please reference Position #50-008 and mail materials to: **Human Resources, Desert Research Institute, 2215 Raggio Parkway, Reno, NV 89512.**



NORTHERN ILLINOIS UNIVERSITY

DIRECTOR TECHNOLOGY COMMERCIALIZATION OFFICE

Northern Illinois University, 65 miles west of downtown Chicago, is a Carnegie "Doctoral/Research—Extensive" institution of 23,000 students. The Technology Commercialization Office assists inventors, inside and outside the university, in assessing innovations and in protecting and commercializing intellectual property. This has included obtaining patents and licenses, establishing spin-off companies, and advancing regional economic development. **Qualifications:** Significant managerial experience; excellent communication, interpersonal, and leadership skills; ability to function in a discreet, diplomatic, and confidential manner; familiarity with intellectual-property matters, especially with regard to collaborative agreements, patents, licenses, and marketing considerations; a baccalaureate degree in an appropriate discipline, with an advanced degree or comparable training and experience preferred. **Desired:** Industrial and university experience. **Send:** A current résumé/vita and cover letter, describing experiences and expertise relevant to the job description; and the names, addresses, and telephone numbers of 3-5 professional references to: **Ms. Connie Spohn, Technology Commercialization Office, Northern Illinois University, DeKalb, IL 60115** ([cgs@niu.edu](mailto:cds@niu.edu); fax 815-753-6366). Applications review will begin July 25, 2001 and continue until position is filled. The university is described at www.niu.edu, and a fuller job description is available at www.grad.niu.edu/tco. AA/EEO Institution.

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Providing technical assistance to the manager of CAD.

QUALIFICATIONS: Applicant should have a Ph.D. in Air Pollution Studies /Meteorology with a minimum of 5 years related experience.

KISR offers attractive tax free salaries commensurate with qualifications and experience that include: gratuity, free furnished and air-conditioned accommodation, school tuition fees, six weeks annual paid vacation, air tickets and life insurance.

Interested applicants are requested to send their Curriculum Vitae with supporting information not later than one month from the date of this publication, to:

**Personnel Manager
Kuwait Institute for Scientific Research
P.O. Box 24885
13109 Safat, Kuwait**

For more information, please visit our website: www.kisr.edu.kw

ASSOCIATE DEAN FOR RESEARCH Texas Tech University HSC School of Pharmacy

Applications are sought from outstanding candidates for the position of Associate Dean for Research. This position is charged with spearheading the development of clinical and basic research at the School of Pharmacy, as well as fostering research collaborations between Pharmacy faculty and other HSC programs across all regional campuses of the University, including affiliated hospitals and institutions.

The School of Pharmacy is in close proximity to the schools of Medicine, Allied Health, and the Veterans Affairs Medical Center in Amarillo, Texas. A generous research incentive package is available to the faculty, and currently, approximately 50% of the faculty members have extramural funding. The School has two competitively selected Research Centers funded from an annual allocation of state tobacco funds and is a full partner with the Amarillo Women's Health Research Institute. A Pharmaceutical Sciences Ph.D./M.S. program was initiated at the School Fall 1999 as part of the HSC Graduate School of Biomedical Sciences. The School also offers pharmacy practice and advanced practice specialty residencies in a number of areas. For more information, visit our home page at <http://pharmacy.ama.ttuhsu.edu>.

The position requires a senior-level Pharm.D., Ph.D. or M.D. scientist with extensive hands-on experience in the design, implementation and conduction of clinical, biomedical or pharmaceutical research. Prior academic experience is preferred, but not required. The successful candidate will have a strong history of independent grant funding, solid administrative and leadership abilities, and an established national and international reputation in their field of expertise. Academic rank depends on prior experience.

Interested applicants should submit (1) a curriculum vitae with list of publications and current and previous extramural funding, (2) a summary of research accomplishments and future goals, and (3) the names, addresses, and telephone numbers of three references to: **Arthur Nelson, Dean, Texas Tech University HSC, School of Pharmacy, 1300 South Coulter, Amarillo, TX 79106**. Fax: 806-356-4613. Email: arthur@cortex.ama.ttuhsu.edu.

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Vacancy Announcement

Associate Director for Specialized Information Services National Library of Medicine

POSITION: The National Library of Medicine (NLM), a major component of the National Institutes of Health (NIH), is seeking exceptional candidates for the position of Associate Director for Specialized Information Services. The NLM is not only the world's largest medical library, but it supports and conducts research in a wide range of biomedical communication modalities and has information programs on such specialized topics as toxicology, environmental health, HIV/AIDS, and outreach to minority communities. The Associate Director for Specialized Information Services provides leadership in planning, developing, and administering a national program of widely used electronic information resources in the field of toxicology and environmental health information. In addition, the Associate Director provides guidance and direction to other specialized information activities such as HIV/AIDS-related information and outreach to minority and underserved communities. To accomplish its mission, the Associate Director, who reports to the NLM Director, directs a highly professional staff of approximately 30 within the Division of Specialized Information Services, NLM. The scope of operation extends to all levels within the Department of Health and Human Services (DHHS) and requires extensive contact with representatives from other government agencies and private and professional organizations.

QUALIFICATIONS REQUIRED: Applicants must possess a Ph.D., M.D., or equivalent degree in scientific disciplines related to the field of toxicology and environmental health. Applicants must have responsible professional and managerial experience at the senior level that demonstrates the following:

1. Scientific knowledge and expertise in the scientific discipline of toxicology, encompassing the chemical and biological effects of toxic and environmental agents, as well as a deep understanding of current information handling and dissemination methods.
2. Ability to provide leadership, administration, and broad vision to a toxicology and environmental information program with extensive managerial and executive level responsibility (i.e., training, resources, strategic planning, evaluation, budgeting, and human resource management) in a diverse organization.
3. Skill in leading, enabling, and defending change on complex scientific topics through effective written communication formats for a diverse scientific and non-scientific audience.
4. Ability to advise senior and executive-level staff within and outside of the organization on complex scientific topics.
5. Skill in the development and maintenance of web-based databases, specialized science information databases and systems.

SALARY: The salary level is commensurate with the background of the selectee, approximately \$120,000 to \$160,000, depending on qualifications and experience.

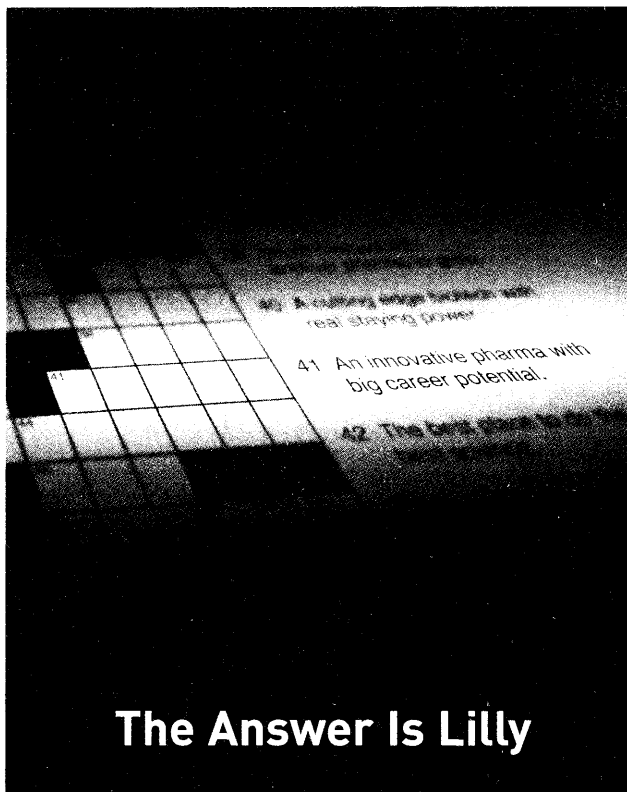
Please submit a curriculum vitae, bibliography, and a statement addressing the qualifications required for Announcement No. NLM-01-0047 to:

Susan Burns
National Library of Medicine
National Institutes of Health
8600 Rockville Pike
Building 38, Room 2N05
Bethesda, MD 20894

Applications may also be sent via e-mail to: susan_burns@nlm.nih.gov or faxed to (301) 480-4971. Any questions, please call (301) 496-4943.

Applications must be postmarked or transmission received by September 17, 2001.

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You will be responsible for designing and performing laboratory experiments directed toward the characterization of novel therapeutics targeting protein kinases. Requires a BS or MS degree and 2-5 years research experience in molecular and cell biology. Strong oral and written communication skills essential. Job #0207JS

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SR. SCIENTIST, RECEPTORS

Develop advanced cell-based assays for the receptor function using Aurora's technology and screening systems. PhD in Biomedical Sciences and at least 3 years postdoctoral experience preferred. Strong knowledge of current GPCR methods (reporter gene assays, biochemical second messenger assays, ligand binding, and analysis of receptor trafficking) and experience with molecular methods for cloning and expression required. Job #0198KB

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- Research Associate, Virology

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The Faculty of Sciences opens a

Full Professor position (Professeur ordinaire) in stable isotope geochemistry at the Institute of mineralogy and geochemistry

Necessary qualifications include experience in stable isotope geochemistry (silicates, carbonates and other solid materials); some experience in organic geochemistry would be useful. An interest in conducting collaborative studies, especially in the Alpine chain, with the other members of the Department is highly desirable.

Teaching responsibilities will include undergraduate courses in geochemistry and isotope geochemistry and more advanced courses in areas of research expertise. The Earth Sciences Departments in Lausanne and in Geneva are linked through the Ecole Lémanique des Sciences de la Terre et de l'Environnement (ELSTE).

Starting date: 1st October 2002 or as agreed.

Applications should include a curriculum vitae, a list of publications with a copy of 5 significant publications that are most representative of probable future research directions, a short statement of teaching and research plans, and the names and addresses of three referees and should be sent to Prof. D. Arlettaz, Dean of the Faculty of sciences, Collège Propédeutique, 1015 Lausanne (Switzerland) before **October 15, 2001**.

Additional information can be obtained from www-sst.unil.ch and Prof. Jean Hernandez – Director IMG – jean.hernandez@imp.unil.ch

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of either
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Infectious Disease at Wyeth-Ayerst Research has openings at several levels for Ph.D., BS/MS scientists with backgrounds in virology, bacteriology, biochemistry and molecular biology. We are seeking motivated and innovative individuals with interest in the drug development of novel therapeutic agents. Specifically we are seeking:

PhD, BS/MS in Antibacterial and Viral Research & Biochemists in HIV and Antibacterials

- PhDs and BS/MS to support the research and discovery of antivirals for HIV
- PhD biochemists to support analysis of antibacterial and antiviral targets
- BS/MS to support the discovery of antibacterials

The collective skills of 40,000 of the world's top talent keep us on the cutting edge. We care for our people by offering rich avenues for advancement, challenging opportunities, generous compensation, stock options, childcare subsidies, education assistance, flexible schedules and other great benefits. For consideration, please forward your resume and salary requirements to: **Wyeth Pharmaceuticals, Attn: S. Avery, 401 N. Middletown Road, Pearl River, NY 10965. Fax: 845-732-5375. E-mail: avery@war.wyeth.com** No phone calls. Principals only. Equal Opportunity Employer M/F/D/V



www.wyethjobs.com

FACULTY

Director Center for Marine Genomics Scripps Institution of Oceanography University of California, San Diego

Scripps Institution of Oceanography invites applications for the position of Director of its newly established Center for Marine Genomics. This is an opportunity to provide leadership to a diverse group of scientists applying genomics, proteomics and bioinformatics in multidisciplinary studies of marine organisms. Current faculty are using genomic approaches to address a broad range of problems in marine sciences: biodiversity, biogeography, evolution, symbiosis, ecosystem structure and functioning, bioremediation, marine pharmacology, ecological epidemiology and the role of the ocean biota in the global carbon cycle. We seek a distinguished scientist and educator with a vigorous research program in a relevant discipline and with the ability to provide intellectual leadership to our multidisciplinary group of marine scientists. The establishment of the Center is at an early stage; therefore, there is the opportunity to shape the research program. We are in the process of acquiring funds for additions to the faculty and for a building to house the Center. The Director will also hold a tenured Professorship in the graduate department of Scripps Institution of Oceanography; salary will be commensurate with qualifications and experience based on the UC pay scale.

Applications received by September 30, 2001 will receive full consideration. Send letter of application including description of research interests, list of publications, resume of teaching experience, and names/addresses/email addresses of three referees to:

**Chair, Marine Genomics Search Committee
SIO Graduate Department
University of California, San Diego
9500 Gilman Drive
La Jolla, CA 92093-0208**

UCSD is an Equal Opportunity/Affirmative Action Employer.

FOCUS ON
CAREERS:

POSTDOCTORAL Opportunities II

Issue Date 7 September 2001
Reserve space by 21 August 2001

Ph.D. students who want to take postdoctoral fellowships face key decisions such as where to pursue their further education, what discipline to study, and which group to study it with. **Their choices have expanded recently with the emergence of industrial organizations as locations for postdoctoral work.** This report will present insights on how to find the best industry laboratory in which to do a 'postdoc.'

To advertise, contact:

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Science
www.sciencecareers.org

Inserm

French Institute
of Health and Medical Research

Inserm is the French institute devoted to biomedical research and health. 10,000 persons work in 300 Inserm laboratories. Inserm has a budget over 450 million euros. Inserm collaborates with 93 countries and 260 industrial partners.

With the aim of giving a strong support to young researchers and of strengthening scientific dynamics of basic biomedical research, clinical research and public health,

Inserm launches the Avenir program: the call for proposals concerns post-doctoral scientists and young researchers with a permanent position.

The program will allow awardees to obtain:

- a financial support of 60,000 euros per year for a 3 year period
- laboratory space of approximately 50 m²
- access to core technological facilities
- to host a foreign post-doctoral fellow

The Avenir program concerns young researchers with a permanent position or French and foreign post-doctoral fellows who have a creative research project.

Inserm intends to select 45 projects.

For complete information consult the web site of Inserm <http://www.inserm.fr> (" actualités ") or call 33 1 44 23 67 01 or send a mail to postel-vinay@tolbiac.inserm.fr

POSTDOCTORAL POSITIONS IN PAIN RESEARCH

Investigating mechanisms of pain and injury in the peripheral and central nervous system in experimental models in the pain research group at the University of Texas Medical Branch at Galveston, Texas. Projects include anatomy, electrophysiology and cellular mechanisms of transmission of visceral pain; peripheral mechanisms of chronic pain from injured and inflamed nerves; electrophysiology and pharmacology of pain mechanisms in the amygdala; somatostatin involvement in peripheral chronic pain; modulation of central pain by leukemia inhibitory factor; molecular biology, genomics, biochemistry, and proteomics of chronic pain following spinal cord injury; neurogenic contribution to inflammatory arthritis, and neural progenitor cell and gene therapy of pain and neurotrauma.

To apply, send a CV, statement of interests, and names and addresses of three references to:
William D. Willis, Jr., M.D., Ph.D.
Department of Anatomy & Neurosciences
The University of Texas Medical Branch
301 University Boulevard
Galveston, TX 77555-1069

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UCSF
UCB
UCSC



DIRECTOR

CALIFORNIA INSTITUTE OF SCIENCE AND INNOVATION IN QUANTITATIVE BIOMEDICAL RESEARCH

Three campuses of the University of California (San Francisco, Berkeley, Santa Cruz) seek a Director for the newly established Institute of Bioengineering, Biotechnology and Quantitative Biomedical Research (QB3). The aim of the Institute, one of four recently established by the State of California at UC campuses, is to foster the application of physics, mathematics, chemistry and engineering to biomedical research. The Institute, which will have over one hundred scientists at all three campuses, will develop programs of research and education in the areas of Bioengineering and Biotechnology, Bioinformatics and Structural and Chemical Biology. QB3 will be housed in new facilities at all three sites, with administrative offices at the new Mission Bay campus of the University of California, San Francisco.

The Director of QB3 will be responsible for overall direction of the Institute, and will work with the Scientific Director to develop research and education programs. Major responsibilities of the Director will be to foster relations of the Institute with private industry and to promote the goals of the Institute to local, state and federal governments and to the public at large. The Director will coordinate efforts on all three campuses with particular responsibility for long-range planning and for overall financial and administrative activities. The Director will report to the Chancellor of UCSF, and through him/her, to the Chancellors of the other two campuses.

Successful candidates will have a record of scientific distinction related to the themes of the Institute and will have significant administrative leadership experience, either in academia or the private sector. *The University of California is an equal opportunity employer and applications from women and minority candidates are especially encouraged.*

Please send curriculum vitae and references to **Zach W. Hall, Ph.D., Chair, Search Committee, UCSF, 513 Parnassus Avenue, Room S-101, San Francisco, CA 94143-0407.** Closing date for applications September 1, 2001.

POSITIONS OPEN

RESEARCH ENTOMOLOGIST, GS-11/12. U.S. Department of Agriculture, Agriculture Research Service (USDA-ARS), Western Cotton Research Laboratory, Phoenix, Arizona, has a permanent full-time vacancy. The incumbent studies insect, host plant, and other environmentally derived chemical signals that mediate behavior and life processes of cotton insect pests and their natural enemies and determine host selection and the interactions between the physiology of the host plant, production practices, and the behavior and physiology of the insect. The incumbent should have experience in applying a range of modern behavior, biochemical, and chemical methods and techniques to the investigation of complex problems in insect behavior. Both field and laboratory studies will be conducted. Specific areas of investigation may include (1) intra- and interspecies behavior, communication, and other life processes mediated through pheromones, kairomones, and plant volatiles; (2) ecological and physiological/biochemical processes in insect pests and their natural enemies that influence factors such as host selection, feeding, reproduction, and environmental adaptation. Salary range is \$43,326 to \$67,500 per year. The full-text Vacancy Announcement and application instructions may be obtained at [website: http://www.ars.usda.gov](http://www.ars.usda.gov) or call Michael Wiggett; Telephone: 602-437-1376, Extension 281; indicate Announcement Number ARS-X1W-1392. Incomplete applications will not receive consideration. Applications must be postmarked by August 6, 2001. For more information, contact: Dr. T. J. Henneberry; Telephone: 602-437-0121, Extension 236. *USDA-ARS is an Equal Opportunity Employer. Applicants must be U.S. citizens.*

MIT CHEMISTRY FACULTY Tenure-Track Massachusetts Institute of Technology Department of Chemistry

The Department of Chemistry invites applications for tenure-track positions in experimental and theoretical physical chemistry, biological chemistry, and organic chemistry for July 2002. Appointment is at the rank of **ASSISTANT PROFESSOR**. For biological chemistry, applications for appointment at more senior levels are also welcome.

Outstanding individuals with a strong commitment to research and teaching are encouraged to apply by arranging to have curriculum vitae, a brief description of research plans, and three letters of recommendation sent to: **Professor Stephen J. Lippard, Head, Department of Chemistry, T18-399, Massachusetts Institute of Technology, Cambridge, MA 02139-4307** by October 15, 2001.

MIT is an Equal Opportunity/Affirmative Action Employer and encourages applications from minorities and women.

DEPARTMENT OF CHEMISTRY AND BIOCHEMISTRY University of California Santa Barbara

The Department announces the availability of three tenure-track faculty positions in biochemistry and biophysics for appointment July 1, 2002. One appointment will be tenured and two appointments will be at the **ASSISTANT PROFESSOR** level. Candidates with an outstanding record of teaching and research in any related subdiscipline are encouraged to apply. Potential areas of research include but are not restricted to (1) macromolecular structure and dynamics including X-ray crystallography and NMR; (2) structure-function analysis applied to cellular processes, biochemical thermodynamics, and catalysis; and (3) biomaterials applications. Send curriculum vitae, up to five selected reprints, brief research plan, and three letters of recommendation to: **Chair of Biochemistry Search Committee, Department of Chemistry and Biochemistry, University of California, Santa Barbara, CA 93106-9510**. Positions are open until filled; however, applications completed by November 1, 2001, will be given preference. *UCSB is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN



RESEARCH ASSOCIATE

Position available immediately for a full-time postdoctoral-level **RESEARCH ASSOCIATE** to study gene expression in the laboratory of Faye K. Ghislan, M.D., in the Department of Pediatrics. Qualified applicants will have a Ph.D. or M.D. with a background in molecular biology/biochemistry or related area. Competitive salary with benefits, commensurate with experience. See Job Number 993619 at <http://www.hr.arizona.edu> for further details. To apply, send curriculum vitae with letter of interest to:

**James F. Collins, Ph.D.
Research Associate Professor
Pediatrics/P.O. Box 245073
1501 North Campbell Avenue
Tucson, AZ 85724**

Review of materials will begin July 30, 2001 and will continue until position is filled. *The University of Arizona is an Equal Opportunity/Affirmative Action Employer. Minorities/Women/Disabled/Veterans.*

DIRECTOR

Lewis-Sigler Institute for Integrative Genomics Princeton University

The Lewis-Sigler Institute for Integrative Genomics invites applications for a Director of the Institute. We are seeking an outstanding leader in biological dynamics, familiar with bioinformatics, computational biology or functional genomics. This tenured faculty position is at the professor level. Ph.D.s or M.D.s with established senior research experience should send a curriculum vitae or short summary of research interests, and three letters of reference to: **Search Committee (chaired by Eric F. Wieschaus), c/o Susan Powell, Department of Molecular Biology, Princeton University, Princeton, NJ 08544-1014**. For full consideration, applications should be received by September 15, 2001. For additional information about the Institute visit our [website: http://www.genomics.princeton.edu](http://www.genomics.princeton.edu).

Princeton University is an Equal Opportunity/Affirmative Action Employer.

NEUROBIOLOGY RESEARCH ASSOCIATE (two positions). Ph.D. in neurobiology or related field required. Postdoctoral experience preferred. Salary: \$2,736/month, funded by NIH research grants to **Joe L. Martinez, Jr.** Both are focused towards understanding the neurobiology of learning and memory; one focuses on opioids, one on integrins. Methods employed include behavior, field and patch clamp recording in hippocampus, and gene regulation studied through DNA microchip array technology. One position seeks someone with experience in grant and manuscript writing and laboratory administration; one seeks an Electrophysiologist. Send employment application, curriculum vitae, three publications, and names of references to: **Office of Human Resources, The University of Texas at San Antonio, 6900 North Loop 1604 West, San Antonio, TX 78249**. Telephone: 210-458-4250; [website: www.utsa.edu](http://www.utsa.edu). Closing date is August 17, 2001.

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

RESEARCH ASSOCIATE position to conduct studies on the regulation of neuropeptide metabolism. The successful candidate should have a Ph.D. in biochemistry or a related field, one year of research experience, and should be familiar with cell culture and molecular biological techniques. Please send curriculum vitae and arrange for three letters of recommendation to be sent to: **Dr. Louis B. Hersch, Department of Molecular and Cellular Biochemistry, MS607 Medical Center, University of Kentucky, Lexington, KY 40536-0298**. *The University of Kentucky is an Equal Opportunity Employer and encourages applications from qualified women and minorities.*

POSITIONS OPEN

The Department of Pathology and the Cancer Research and Treatment Center at the University of New Mexico Health Sciences Center invites applications for a tenure-track faculty position at the **ASSISTANT, ASSOCIATE or FULL PROFESSOR** level. The successful candidate will hold a primary appointment in the Department of Pathology and will be a formal member of the UNM Cancer Center. The successful individual will be expected to continue an established, extramurally funded program in cancer research and to participate in graduate and medical education. Applicants with a strong research background in human cancer biology or animal models of carcinogenesis with relevance to solid tumor biology focused on applications to lung, skin, breast/GYN, prostate, and GI malignancies are strongly encouraged to apply. Minimum requirements include a Doctoral degree (Ph.D. or M.D.), two years of postdoctoral research experience, and a strong publication record. Board certification in anatomic pathology is highly desirable. The University of New Mexico Health Sciences Center has active research programs in signal transduction, cell adhesion, DNA repair, molecular oncology, genomics, and intracellular molecular trafficking. Applicants should submit a curriculum vitae, statement of research interests/career goals, and the names of three references to: **Dr. Walter Kiesel, Search Committee Chair, Department of Pathology, University of New Mexico Health Sciences Center, Albuquerque, NM 87131**. Telephone: 505-272-0835; FAX: 505-272-5139; e-mail: wkiesel@salud.unm.edu. For best consideration, applications must be received by September 20, 2001. *The University of New Mexico is an Equal Opportunity/Affirmative Action Employer/Educator.*

CANCER RESEARCH University of Louisville

J. Graham Brown Cancer Center

The University of Louisville-J. Graham Brown Cancer Center announces the availability of a full-time, tenure-track position at the level of **ASSISTANT or ASSOCIATE PROFESSOR**. The successful candidate will have a strong record of research accomplishment and potential in the field of cancer research. Candidates with a background in experimental therapeutics, gene therapy, and/or apoptosis signal transduction mechanisms will be particularly suited for this position. Consideration will be given to promising candidates who have recently finished a postdoctoral fellowship. For appointment at the Associate Professor level, the candidate would be expected to have a funded grant. To apply, please submit a current curriculum vitae, a description of current and future research interests, and the names and addresses of three persons who can be contacted for letters of recommendation. Submit applications to: **Kelly M. McMasters, M.D., Ph.D., University of Louisville-J. Graham Brown Cancer Center, 529 South Jackson Street, #318, Louisville, Kentucky 40202**. E-mail: kelly.mcmasters@nortonhealthcare.org.

The University of Louisville-James Graham Brown Cancer Center is an Equal Opportunity/Affirmative Action Employer.

University of Arizona Department of Pediatrics seeks a Ph.D. to lead a basic science research program focused on a mechanistic approach to the prevention and/or improved therapy of juvenile diabetes. The successful candidate will hold the Elissa D. Eller Chair in Juvenile Diabetes, which is endowed at \$2 million. A complete description can be found at <http://www.hr.arizona.edu> Job Number 993610. Application review begins August 29, 2001, and continues until position is filled. *The University of Arizona is an Equal Opportunity/Affirmative Action Employer. Minorities/Women/Disabled/Veterans.* To apply, submit curriculum vitae and letter of interest to:

**Wayne J. Morgan, M.D.
Pediatrics/P.O. Box 245073
1501 North Campbell Avenue
Tucson, AZ 85724**


POSTDOCTORAL FELLOWSHIPS IN MOLECULAR AND CELL BIOLOGY AT THE NIH

Postdoctoral Fellowships are available in the Genetics and Biochemistry Branch, NIDDK, NIH. The Branch is similar to a small academic department and has excellent laboratory facilities. The intramural program of the NIH offers an outstanding research environment. The Branch is located on the main intramural campus of the NIH in Bethesda, Maryland, a 20-minute ride from Washington, D.C. Applications are invited from individuals of the highest caliber with Ph.D., M.D., or M.D., Ph.D. degrees. Physicians may participate in either the NIH Interinstitute Endocrine or the NIH Interinstitute Medical Genetics Training Programs. Current research interests of the staff include:

- Membrane protein biogenesis. We are currently using a combination of biochemical and genetic approaches to investigate the targeting, membrane integration, assembly, and trafficking of multi-spanning membrane proteins in model systems such as bacteria and yeast. See *Cell* (1997) 88: 187, *Proc. Nat. Acad. Sci.* (2001) 98: 3471, and *J. Bacteriol.* (2001) 183: 2187. (**Harris Bernstein**)
- Biochemistry and molecular biology of homologous recombination in eukaryotes and prokaryotes. Current interests include mouse meiosis (*Mol. Cell* (2000) 6:975, DNA damage and repair (*Genes and Dev.* (2001) 15: 415), the structure of recombination proteins and their reaction intermediates (*J. Mol. Biol.* (2000) 299:629; *J. Mol. Biol.* (2000) 303:709), and novel approaches to gene therapy (including the use of small molecules that promote gene targeting and silencing, such as miniRecAs (*Science* (1996) 272:868)). Approaches used include protein and peptide biochemistry, mouse knock-outs, chromosome immunolocalization, structural biology, gene microarrays, proteomics, and biophysical approaches. (**Dan Camerini-Otero**)
- Molecular mechanisms of DNA repair and homologous recombination. Current efforts focus on structure-function studies of multi-protein-DNA complexes involved in DNA mismatch repair and homologous recombination [*JBC* (1999) 274:23673; *Nature* (2000) 407:703; *J. Mol. Biol.* (2001) 305:805; *J. Biol. Chem.* (2001) in press]. (**Peggy Hsieh**)
- Molecular mechanisms of orphan nuclear transcription factors. Molecular investigations include: transgenic and gene targeted mouse models, yeast 2-hybrid screening and gene expression profiling. Applicants should have a strong background in molecular and cell biology. (*Mol. Cell Biol.* (1998) 18: 36; *Neuroscience* (1999) 93:631; *MCB* (1999) 19:6833) (**Vera Nikodem**)
- The molecular mechanisms facilitating RNA metabolism, specifically the processing events within rRNA. We are identifying CIS-acting elements (*RNA* (1998) 4:1610; *NAR* (2001) 29:2106) that are essential for accurate processing of rRNA in yeast. In vivo and in vitro biochemical assays help identify and characterize trans-acting factors essential for processing at specific sites (*MCB* (1997) 17:3702; *JBC* (1999) 274:35914; *RNA* (2001) 7:207-219). Identifying the RNA:RNA and RNA:protein interactions facilitating early steps of rRNA processing will help elucidate the mechanisms regulating ribosome biogenesis in eucaryotes. (**Brenda Peculis**)

Interested candidates should send a letter stating their interests, their curriculum vitae and list of publications, and arrange to have letters from three references sent to one of the investigators above or to Dr. R. Daniel Camerini-Otero (camerini@ncicrf.gov), Chief, Genetics and Biochemistry Branch at:

Genetics and Biochemistry Branch
10 Center Drive, MSC 1810, Building 10, Room 9D-20
National Institutes of Health
Bethesda, Maryland 20892



Opportunities


Assistant/Associate Professor of Pediatrics, Diabetes Research Center

The Diabetes Research Center at Children's Hospital Medical Center of Cincinnati seeks an outstanding immunology researcher for a full-time, tenure-track faculty position. The successful candidate will have an MD/PhD, MD, or PhD, an accomplished record of innovative laboratory research at a postdoctoral level, and will be expected to develop and maintain a basic research program in type 1 diabetes. Either patient-based or animal-based research is welcomed, but experience in transgenic knock out mice, functional genomics or proteomics is preferred. Clinical duties are not obligatory, but are an option for qualified applicants. The candidate will join the Diabetes Research Center and will be expected to develop associations with the new Division of Immunobiology and the graduate program in Molecular and Developmental Biology.

Send resume and CV to:

Jonathan Katz, M.D.
Associate Professor of Pediatrics
Division of Endocrinology
Children's Hospital Medical Center
3333 Burnet Avenue
Cincinnati, Ohio 45229-3039
E-mail: jonathan.katz@chmcc.org

Children's Hospital Medical Center is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.



Post-doctoral Position in Molecular Neurobiology

A postdoctoral position is available to investigate the molecular mechanisms of synaptic plasticity. We believe that extracellular proteolytic processes play a role in the formation of synapses as well as in the regulation of synaptic function and plasticity. Therefore, we are investigating the role of extracellular proteolytic processes in the developing and adult nervous system with a broad range of approaches. The position announced here is devoted to the molecular characterization of protein components of the synaptic proteolytic systems identified in our lab using protein chemical and recombinant DNA technologies. For details visit our lab homepage <http://www.unizh.ch/~sonlab>. Candidates should have a PhD in chemistry, biochemistry, or molecular biology. Priority will be given to candidates with advanced skills in protein technology and molecular biology.

Send curriculum vitae, summary of research interests and experience, and the names and addresses of three references to:

Prof. Dr. Peter Sonderegger, Institute of Biochemistry, University of Zürich, Winterthurerstr. 190, CH-8057 Zürich, Switzerland. Ph: +41 1 635 55 41
Fax: +41 1 635 68 31
Email: pson@bioc.unizh.ch


Office of Industrial Affairs Sloan-Kettering Institute

Licensing Associate

Reporting to the Director of Industrial Affairs, you will manage all phases of invention development and licensing. Through interaction with research laboratories, you will focus on technology with commercial potential for licensing or further research support; assess technical and market risks related to invention disclosures; and supervise filing and prosecution of patent applications.

This position requires a strong science background, MA/MS, and 2-5 years of relevant experience in the biomedical field. A PhD, business/marketing experience, and knowledge of patent law preferred.

We offer an excellent salary and comprehensive benefits, including 100% tuition reimbursement. Please forward your resume and salary requirements to: **Employment Department, #01079.2R, MSKCC, 633 Third Avenue, 5th Floor, New York, NY 10017. E-mail: 01079.2R@applyforjobsonline.com** EOE/AA



Memorial Sloan-Kettering Cancer Center
The Best Cancer Care. Anywhere.
www.mskcc.org

POSITIONS OPEN

ASSOCIATE PROFESSOR/PROFESSOR PHYSIOLOGY

Outstanding Scientists employing modern cellular and molecular approaches to investigate physiological processes are invited to apply for a tenure-track position at the Associate Professor/Professor level. Candidates must possess a Ph.D., M.D., or equivalent degree. A strong record of continuous research productivity and funding including current support from national sources is required. Individuals with outstanding credentials in all areas of physiological research will be considered. The appointee will be expected to continue a nationally recognized research program supported by extramural funding and participate in medical and graduate teaching. Excellent opportunities exist within the Department and institution for collaboration. Salary, start-up resources, and laboratory space are competitive and commensurate with experience. Applicants should send curriculum vitae; a brief description of current and future research interests; three representative reprints; and the names, addresses, telephone numbers, and e-mail addresses of three references to: **Dr. Sinya Benyajati, Department of Physiology, College of Medicine, The University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, OK 73190. FAX: 405-271-3181; e-mail: siribhinya-benyajati@ouhsc.edu; website: http://w3.ouhsc.edu/physiology.** Electronic applications are welcome. Review of applications will begin September 15, 2001. Anticipated starting date: July 2002. *OUHSC is an Equal Opportunity Institution.*

ASSISTANT PROFESSOR, VETERINARIAN

Department of Biological Sciences announces a tenure-track position to begin as early as fall 2001. We seek a veterinarian who is ACLAM Board-certified or Board-eligible to serve as the attending veterinarian for the Kent State University, AAALAC-certified Animal Care Program. Kent State University maintains animal facilities to support research using primarily mice, rats, hamsters, and nonhuman primates, with an average daily census of around 1,000. The appointee will be expected to develop a research program complementary to the Reproductive Physiology Group, seek extramural funding, and participate in undergraduate and graduate teaching. Start-up funds are available. The Department (<http://dept.kent.edu/biology>) includes facilities for organismal, cellular, and molecular research. Applicants must have the D.V.M. with postdoctoral research experience preferred. Review of applications will begin August 15, 2001, and continue until the position is filled. To apply, please submit a curriculum vitae, statement of research interests, and three letters of recommendation by that date to: **Dr. John Stalvey, Chair Veterinarian Search Committee, Box 29, Department of Biological Sciences, Kent State University, Kent, OH 44242-0001.** *Kent State University is an Equal Opportunity/Affirmative Action Employer.*

DEPARTMENT OF NEUROBIOLOGY AND ANATOMY

University of Texas—Houston Medical School

The Department of Neurobiology and Anatomy invites applications for tenure-track faculty at the level of **ASSISTANT PROFESSOR**. Highly competitive compensation package and start-up funds are available. Individuals will be expected to develop a strong, independent research program and contribute to the teaching mission of the Department. Interested applicants should submit their curriculum vitae, a statement of their research and teaching plans, and the names of four references to: **Neuroscience Search Committee, Department of Neurobiology and Anatomy, University Texas—Houston Medical School, P.O. Box 20708, Houston, TX 77225.** *UTHSCH is an Equal Opportunity/Affirmative Action Employer. Security Sensitive Protection.*

POSITIONS OPEN

FACULTY POSITION University of Arkansas for Medical Sciences

The Department of Pharmacology and Toxicology is recruiting a full-time tenure-track faculty member at the **ASSISTANT PROFESSOR** level. Candidates should have a Ph.D. or equivalent degree, postdoctoral training, evidence of research productivity, and a commitment to quality teaching of graduate and medical students. Applicants must have the potential to obtain extramural research funding. Individuals working in mechanisms of toxicant or drug action are encouraged to apply but other excellent applicants will be considered. Opportunities are available for collaborative research with faculty at UAMS and with adjunct faculty at the nearby National Center for Toxicological Research. The specific area is open, but significant departmental strengths include hepatotoxicology, neurotoxicology, drug abuse, and signal transduction mechanisms. Significant strengths at NCTR include carcinogenesis and mutagenesis with emphasis on genomics and proteomics. An excellent start-up package with laboratory space in a recently constructed building is available. Candidates should send curriculum vitae, a brief prospectus, and the names of three references to: **Jack A. Hinson, Ph.D., Division of Toxicology, Department of Pharmacology and Toxicology, Slot 638, University of Arkansas for Medical Sciences, Little Rock, AR 72205.** Applications should be received before September 1, 2001. Our website is <http://www.uams.edu/pharmtox/pharmtox.htm>. *UAMS is an Equal Opportunity Employer.*

ADMIRAL PIHL ENDOWED CHAIR IN NEUROSCIENCE Medical University of South Carolina Neuroscience Institute

Applications are invited to fill an endowed chair in the Department of Physiology & Neuroscience at the Medical University of South Carolina. The position is tenure-track at the level of **ASSOCIATE** or **FULL PROFESSOR**. The applicant will be expected to play a significant role in the growth of the Neuroscience Institute. The applicant must have a Ph.D., M.D., or the equivalent and have a record of sustained extramural funding in the neurosciences. Priority will be given to individuals with research programs that augment areas of existing research excellence including aging, cell signaling, neuroregeneration, retinal and cochlear physiology, stroke, and substance abuse. Outstanding laboratory space and development funds are available. Review of applications will begin September 1, 2001, and continue until the position is filled. Send complete curriculum vitae, statement of research interests and accomplishments, and three letters of reference to: **Peter Kalivas, Ph.D., Department of Physiology & Neuroscience, Medical University of South Carolina, P.O. Box 250510, Charleston, SC 29425; e-mail: kalivasp@mus.edu; website: <http://www2.musc.edu/PGY/PGY.html>.** *MUSC is an Equal Opportunity/Affirmative Action Employer.*

Ph.D., BIOCHEMISTRY AND MOLECULAR BIOLOGY

Critical Care Medicine Department, Clinical Center, National Institutes of Health is seeking a staff scientist to join a team studying mechanisms of inflammation at the cellular and molecular level. Expertise in protein chemistry and molecular biology is required. A record of high-quality publications is sought.

This position is a federal excepted service position. The salary range is between \$55,000 to \$65,000, initial appointment up to three years with possible extensions. To apply, send résumé to: **Bridget Orloski, National Institutes of Health, 10 Center Drive, Building 10, Room 7D43, Bethesda, MD 20892-1662.** Applications will be accepted through September 30, 2001. *NIH is an Equal Opportunity Employer. U.S. citizenship is required.*

POSITIONS OPEN

Michigan State University invites nominations/applications for the position of **CHAIRPERSON**, Department of Pharmacology and Toxicology. The position offers the exciting opportunity of hiring new faculty and directing one of this university's essential basic science departments. Extensive educational and research interactions are possible given the unique affiliation of the Department with the Colleges of Human, Osteopathic, and Veterinary Medicine and the research funding opportunities provided by the Michigan Life Science Corridor Research Fund. Candidates must have a Ph.D. or other advanced degree with an outstanding record of research in pharmacology and/or toxicology and must be nationally recognized leaders in their fields. It is anticipated that the successful candidate will maintain an active, extramurally funded research program. The Department has major research emphases in the areas of cardiovascular pharmacology, neuropharmacology, and inflammation/immune modulation and toxicology; preference will be given to candidates demonstrating excellence in one of these areas. A strong interest in professional and graduate education and demonstrated leadership and administrative skills are essential. Applications should include a statement of interest in the position, curriculum vitae, and names of three potential references (not to be contacted until approval is received from the applicant). Electronic applications are encouraged but paper materials also will be accepted. Applications should be sent to: **David I. Kaufman, D.O., Chair of Search Committee, c/o Kimberly Betts, Office of the Dean, A309 East Fee Hall, Michigan State University, East Lansing, MI 48824. E-mail: bettski@msu.edu.** The deadline for receipt of these materials is October 5, 2001. *MSU is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply. People with disabilities have the right to request and receive reasonable accommodation.*

RESEARCH FACULTY

The Department of Physiology and Cell Biology at University of Nevada School of Medicine is seeking Research Faculty to conduct investigations supported by federally funded and/or agency funded grants into the ionic basis of rhythmicity in smooth muscles, neural regulation of smooth muscles, endothelium-dependent regulation of vascular smooth muscles, biochemical and molecular biological studies of phosphatases and their substrates, ionic mechanisms in cardiac muscles, development of excitation and contraction mechanisms in smooth and cardiac muscles, or developmental neurobiology. Various molecular, biochemical, electrophysiological, and imaging techniques are utilized in these studies. Requires Ph.D., M.D., or equivalent degree in medical sciences. Experience with smooth muscle physiology, molecular biology, biochemistry, biophysics, electrophysiology, or morphological techniques required. Send curriculum vitae and three references to: **Kenton Sanders, Ph.D., Department of Physiology and Cell Biology/352, University of Nevada School of Medicine, Reno, NV 89557.** Review of applications will begin August 1, 2001. Applications will be accepted until May 1, 2002. *Affirmative Action/Equal Opportunity Employer.*

TWO POSTDOCTORAL POSITIONS MOLECULAR BIOLOGY OF AXONAL GUIDANCE AND NEUROPROTECTION

Two **POSTDOCTORAL POSITIONS** are available to study the molecular mechanism of axonal guidance and neuroprotection. Work in our laboratory is directed toward the identification and analysis of molecules that regulate the formation of axonal pathways and neuronal survival. Candidates with experience in molecular biology or neurobiology are encouraged to send their curriculum vitae, statement of research interests, and the names of three references to: **Dr. Renping Zhou, Laboratory for Cancer Research, College of Pharmacy, Rutgers, The State University of New Jersey, 164 Frelinghuysen Road, Piscataway, NJ 08854-8020. FAX: 732-445-0687; e-mail: rzhou@rci.rutgers.edu.**



**MAYO CLINIC
CANCER GENETICS**

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

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

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

**Tenured Investigator
Intramural Research Program
National Institute of Mental Health
Bethesda, MD, U.S.A.**

The Intramural Research Program of the National Institute of Mental Health invites applications for a Tenured Investigator. The candidate is expected to develop independent research programs to plan and conduct postmortem investigations relevant to the morphology, neuroanatomy, neuropathology, neurochemistry, and genetics of mental disorders. The candidate must have an M.D. and/or Ph.D. and broad research experience, including a record of high scientific achievement as an independent investigator, experience in direct administration of a research program, and national and international recognition. Applicants should send a curriculum vitae, statement of research interests, and six letters of recommendations by **October 1, 2001** to:

**Dr. Robert Desimone, Chair Search Committee
for a Tenured Investigator in Neuropathology
National Institute of Mental Health
Bldg. 10 Rm. 4N-222, 9000
Rockville Pike, Bethesda, MD 20892**

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**HARVARD MEDICAL
SCHOOL**

OPTICAL IMAGING MANAGER

Duties & Responsibilities: Establish, maintain and oversee daily operations of Harvard Brain Imaging Core's Optical Imaging unit, including confocal, 2-photon and deconvolution microscopes, and integrated computer systems and software. Provide technical support and advice to constituent scientists and participate in design and execution of protocols to facilitate cutting edge research. Establish relationships with neuroscientists throughout HMS community. Although this is not an opportunity for collaborative or independent research, Manager may develop new methodologies and strategies for using optical imaging technology. Develop and offer seminars and training courses to familiarize community with technology and resources and train interested faculty, students and staff to utilize it. Oversee maintenance of microscopes, electronics and peripheral equipment and work with Core Physicist to ensure associated Image Analysis unit is properly equipped and maintained. Coordinate administrative and business operations with the Core Director and Administrator. **Req. #10442**

Required Education: Ph.D. (or equivalent) required plus several years of postdoctoral research experience with confocal, 2-photon and deconvolution imaging technology and Sun/SGI image analysis systems. Excellent oral and written communication skills including demonstrated ability to work with faculty and staff on a wide array of scientific and administrative matters. Experience with technology teaching and scientific resource management strongly preferred.

Harvard offers amazing benefits such as: 4 weeks paid vacation, 12 paid sick days, 11.5 paid holidays, and 3 paid personal days per year. We also offer 8 medical plans, 2 dental plans, a retirement plan, and a tuition assistance program.

For more information on careers or to apply on-line, visit www.hr.harvard.edu/employment or send/fax your resume and cover letter to: Harvard University, Resume Processing Center, 11 Holyoke Street, Cambridge, MA 02138. Fax: (617) 495-4748. Please indicate requisition number.

At Harvard University, diversity is an essential source of vitality and strength.

**Postdoctoral Position
Molecular Biology, Function and
Regulation of Mammalian CYP's**

**National Institute of Environmental
Health Sciences
National Institutes of Health
Research Triangle Park, North Carolina**

The Laboratory of Pharmacology and Chemistry, Human Metabolism Section, seeks a scientist to study the mechanisms of induction as well as function of mammalian drug-metabolizing enzymes are studied using molecular biology techniques. The incumbent will use cloning techniques to identify and study function of extrahepatic P450s, nuclear mechanisms of regulation of drug-metabolizing enzymes and/or transport proteins. Experience in molecular biology and protein and biochemistry techniques are expected. Experience with drug-metabolizing enzymes, knockouts, and/or promoter assays would be useful but not required. Applicants must have a PhD and less than five years postdoctoral experience. For additional information concerning the laboratory, see website <http://dir.niehs.nih.gov/dir/pc/> for additional information, contact Dr. Joyce Goldstein at 919-541-4495, Fax 919-541-4107 or e-mail: goldste1@niehs.nih.gov. TO APPLY: Submit a cover letter, curriculum vitae, bibliography and the names, telephone numbers and addresses of three references to: Dr. Joyce Goldstein (Vacancy HNV-01-14) National Institute of Environmental Health Sciences P.O. Box 12233, Maildrop A3-02 Research Triangle Park, NC 27709



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POSITIONS OPEN

MYCOLOGIST

Illinois Natural History Survey

Mycologist: ASSISTANT/ASSOCIATE PROFESSIONAL SCIENTIST, Center for Biodiversity, Illinois Natural History Survey (INHS). Mycologist with expertise in fungal systematics and demonstrated organismal focus. Research topics may include molecular and morphological phylogenetics, taxonomy, ecology, conservation biology, evolutionary genetics, biotic inventory, and biogeography. Requires Ph.D. (by starting date) in mycology or related discipline; postdoctoral and curatorial experience preferred. Responsibilities include developing research program(s), attracting extramural funding, and publishing research findings in scientific journals; conducting, supervising, and evaluating research activities; maintaining and developing the INHS mycological collection; and working with state and federal agencies and the University of Illinois. The Illinois Natural History Survey is part of the Illinois Department of Natural Resources and an affiliated agency of the University of Illinois at Urbana-Champaign. For further information, see website: <http://www.inhs.uiuc.edu>. Direct technical questions to either Dr. Weidong Chen; Telephone: 217-244-5475; e-mail: w-chen7@uiuc.edu or Dr. Chris Dietrich; Telephone: 217-244-7408; e-mail: dietrich@inhs.uiuc.edu. To apply, send cover letter, curriculum vitae, statement of research interests, and three letters of reference to: Sue Key, Human Resources Manager, PRF Number 873, Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820. Telephone: 217-244-7790; FAX: 217-333-4949. Deadline: August 24, 2001. INHS is an Equal Opportunity Employer.

DIRECTOR OF RESEARCH ADMINISTRATION Maine Medical Center Research Institute

Maine Medical Center Research Institute (MMCRI) conducts basic and clinical research as part of Maine Medical Center's commitment to research, education, and patient care. MMCRI is housed in a new state-of-the-art research building with excellent core facilities to conduct modern cell and molecular biological research. MMCRI is currently undergoing a vigorous expansion of its research efforts and is seeking a Director of Research Administration to lead the administrative and operational functions for the Institute. Requirements for this position include management of finance and budget development, grants and contract administration, human resources, information services, technology transfer, and intellectual property. The preferred candidate will have an MBA and/or CPA and experience in a research and development or academic environment. Interested applicants please apply at e-mail: kinnev@mmc.org; FAX: 207-885-8185. Affirmative Action/Equal Opportunity Employer.

RESEARCH FELLOW POSITIONS are available in the Cancer Prevention laboratory at the American Health Foundation, located in Valhalla, New York, on the campus of the Westchester Medical Center.

Programs focus on molecular mechanisms of colon cancer prevention by NSAIDs and NO-releasing NSAIDs and DNA repair and carcinogenesis. Candidates with a Ph.D. and/or M.D. degree in biological sciences with a strong background in cellular and molecular biology are encouraged to apply.

Salaries are commensurate with experience but very competitive. Please send curriculum vitae and names of three references to:

Dr. Basil Rigas
American Health Foundation
One Dana Road
Valhalla, NY 10595
E-mail: rigasb@aol.com

Equal Opportunity Employer; Minorities/Females/Disabled/Veterans; Americans With Disabilities Act.

POSITIONS OPEN

REGIONAL TOXICOLOGIST



The U.S. Environmental Protection Agency, Region 8 in Denver, Colorado, supports the use of sound science in regulatory decision making. We are presently looking for a highly qualified toxicologist with a broad background in pharmacology, biochemistry, and/or physiology for our hazardous waste program. An advanced degree (Ph.D., D.V.M. M.D.), advance training in toxicology, Board certification in toxicology, working knowledge of EPA risk assessment guidance, and/or considerable experience related to human toxicology are desirable. The position will be filled at the GS 11/12/13 level; salary range \$45,024 to \$83,425 per annum, depending on qualifications. Candidates must be U.S. citizens. Inquiries and requests for the position description should be directed to Valerie Martin, Telephone: 303-312-6821; 999 18th Street, Suite 300, Denver, CO 80202 (also see Recruitment Bulletin #01-21 DA at <http://www.usajobs.opm.gov>). Correctly completed applications will be accepted if postmarked on or prior to July 30, 2001. An Equal Opportunity Employer.

CEDPA is a nonprofit international organization that has been awarded a USAID contract to provide technical advisors in AIDS and Child Survival (TAACS) to USAID offices overseas and in Washington. This position requires U.S. citizenship. Security clearance will be required.

BIOMEDICAL RESEARCH SPECIALIST

Position is located in USAID/Washington, D.C. Responsible for providing specialized technical assistance in the areas of vaccine development, microbicide development, and other biomedical research in the PHN/HN HIV/AIDS Division. Qualifications: Ph.D. in biosciences. Minimum two years of product development and program management experience. Extensive technical knowledge of the critical biomedical research issues for the international HIV/AIDS field. Prior developing country experience preferred. Ability to work independently and within a team. Excellent verbal and written communication skills, including technical documents and state-of-the-art presentations are required.

Excellent benefits. Send résumé/curriculum vitae, references, and salary history. Your application cannot be considered without complete materials. FAX: 202-322-4496; e-mail: jobs@cedpa.org. Affirmative Action/Equal Opportunity Employer. No calls, please.

SENIOR SCIENTIST POSITION

IDENTIGENE, an established leader in the field of private DNA identification has an immediate opening for a self-motivated, highly independent **SCIENTIST** with a Ph.D. in molecular biology/genetics. Experience with statistics and population genetics is essential. Send curriculum vitae and the names of three references to: J. Kita, Human Resources, IDENTIGENE, 7400 Fannin, Suite 1250, Houston, TX 77054 or e-mail to: jkita@identigene.com (MSWord format). To learn more about IDENTIGENE, please visit us at <http://www.identigene.com>.

RESEARCH SCIENTIST Two-Photon Microscopy Facility University of North Carolina Neuroscience Center

We are seeking a highly motivated individual with demonstrated expertise in the use of two-photon laser scanning microscope in vital imaging of neural tissues. Apply with curriculum vitae and names of references to: E. Anton, University of North Carolina Neuroscience Center, CB Number 7250, Neuroscience Hospital, Chapel Hill, NC 27599. E-mail: anton@med.unc.edu.

POSITIONS OPEN

DIRECTOR

Illinois-Indiana Sea Grant College Program

The University of Illinois at Urbana-Champaign (UIUC) and Purdue University invite nominations and applications for the position of Director of the UIUC-Indiana Sea Grant College Program (IISGCP). For information, visit: website: <http://www.iisgcp.org/>.

The Director has overall fiscal, programmatic, and administrative responsibility for IISGCP. The Director will be appointed at UIUC, report to the Vice Chancellor for Research at UIUC, and be advised by a Joint University Policy Committee.

Candidates should possess a Ph.D. degree in a field relevant to the mission of IISGCP; scholarly accomplishments warranting appointment as a tenured faculty member; and have experience in academic research, outreach, and program administration. Familiarity with the mission of Sea Grant is preferred.

Salary is open. To ensure full consideration, applications must be received by August 15, 2001. Position is available after August 15, 2001. Applicants should forward a letter of interest, curriculum vitae, and the names of four references to:

Professor John B. Braden, Chair
Sea Grant Director Search Committee
417 Swanlund Administration Building
601 East John Street
Champaign, IL 61820
Telephone: 217-333-0034
Attention: Angie Wischart

The University of Illinois at Urbana-Champaign is an Affirmative Action/Equal Opportunity Employer.

CUSTOMER SERVICE/SALES. ABS Inc. is the leader in providing cell culture services and custom bioreagents for drug discovery. We are looking for an individual with a broad scientific background in biological/pharmaceutical sciences. Ph.D. is preferred. This individual will manage our customer service and sales efforts in California and the Western United States. A willingness to help others, not high-pressure selling techniques, is essential. Previous sales and marketing experience is not required.

POSTDOCTORAL POSITIONS are immediately available in biosensor development. Ph.D. in biochemistry or bioorganic chemistry required. Assay development experience and organic synthesis are desired.

ABS offers competitive salaries, a full benefits package, and the opportunity for rapid advancement for the right individuals. All applicants must have excellent communication skills and the ability to work independently as well as part of a team. In addition, the individual who is selected for the California position must be willing to temporarily relocate and train at our headquarters in Wilmington, Delaware, for 30 to 90 days. Send curriculum vitae and references to: Staffing, ABS Inc., P.O. Box 862, New Castle, DE 19720.

Two **POSTDOCTORAL POSITION(S)** are available in the Laboratory of Allergic Diseases/NAIAD/NIH (website: <http://www.niaid.nih.gov/dir/labs/lad.htm>) to study the molecular and cellular immunology of allergic inflammation. A Ph.D. and/or M.D. and a background in molecular or cell biology is preferable. Salary based on relevant experience and education. Send a cover letter, curriculum vitae, summary of past work, and names and addresses of three references to: Dr. Dean D. Metcalfe, LAD/NAIAD/NIH, Building 10, Room 11C205, 10 Center Drive, Bethesda, MD 20892-1881, USA. E-mail: dmetcalfe@niaid.nih.gov.

POSTDOCTORAL POSITION Molecular Biology of Cancer Los Angeles, California

Position to study stress gene induction in mammalian cells. Research includes gene expression, stress protein function, tumorigenesis, and gene therapy. Résumé to: Dr. Amy Lee, University of Southern California Norris Cancer Center, 1441 Eastlake Avenue, MC 9176, Los Angeles, CA 90089. E-mail: amylee@hsc.usc.edu.

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www.drugdisc.com.



For information contact Daryl Anderson
phone 202-326-6543
fax 202-289-6742
e-mail danderso@aaas.org

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POSITIONS OPEN

WESTVACO FOREST SCIENCE & TECHNOLOGY

Research Positions in Forest Tree Tissue Culture and Transformation, M.S./B.S.

Westvaco is a major producer of paper, packaging, and specialty chemicals with an active Forest Science and Technology department located near Charleston, South Carolina. Ongoing biotechnology research to improve forest tree species includes tissue culture, molecular biology, and transformation. We are seeking two highly motivated candidates to join our programs in hardwood tissue culture, and transformation. For each position, a Master's degree in biology (or related area) with experience in plant tissue culture or plant transformation is preferred. Candidates with a Bachelor's degree in biology (or related field) and at least three years experience in these fields will also be considered.

One position is available in our Hardwood Transformation (#FR-08-01) laboratory. Applicants should have experience in plant transformation, preferably with woody plants. Experience with transgene analysis using molecular and/or biochemical techniques is also desired. A second position is available in our Hardwood Tissue Culture (#FR-04-00) laboratory. Applicants for this position are expected to have experience in the tissue culture of plants, preferably woody species, using organogenic or embryogenic systems. Familiarity with experimental design and statistical analysis would be helpful. Candidates for both positions should be able to function within a team environment, but carry out his/her own project independently.

Authorization to work in the United States is required. Interested candidates should send résumé, college transcripts, and three letters of recommendation to: **FST Jobs (please reference job number from above), Westvaco Forest Science Laboratory, P.O. Box 1950, Summerville, SC 29484.** Westvaco is seeking the referral of qualified minorities and women for consideration in the applicant pool. Applications will be accepted until August 20, 2001, or until qualified candidates are found. Inquiries: **Telephone: 843-851-4733 or e-mail FSTJobs@westvaco.com.**

Westvaco is an Equal Opportunity Employer/Minorities/Females.

POSTDOCTORAL POSITION

The University of Michigan Medical School

A POSTDOCTORAL POSITION is available in the Department of Pathology to study molecular and cellular mechanisms of lung injury and fibrosis. The projects of study include analysis of the mechanisms of myofibroblast differentiation and apoptosis, and associated signal transduction pathways; and the role of eosinophils and associated regulatory mechanisms in fibroblast activation, recruitment, and cytokine, as well as extracellular matrix gene expression. Experience in molecular biology, signal transduction, and immunological techniques are desirable. Salary is commensurate with experience. Applicants should provide curriculum vitae and three letters of recommendation to: **Dr. Sem H. Pan, Department of Pathology, University of Michigan Medical School, Ann Arbor, MI 48108-0602; e-mail: shphan@umich.edu.** The University of Michigan is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION DNA RADIATION CHEMISTRY

EPR, HPLC, MS, and gel electrophoresis are used to study the mechanisms by which ionizing radiation damages DNA. Expertise in nucleic acid and radiation chemistry is desirable. See website: <http://dbb.urmc.rochester.edu/Bernhard.htm>. The appointment can start as early as summer of 2001 and is renewable yearly. Send curriculum vitae, summary of research interests, and three references. If possible, use e-mail: **william_bernhard@urmc.rochester.edu.** **W. A. Bernhard, Box 712, Biochemistry and Biophysics, University of Rochester Medical Center, Rochester, NY 14642.** University of Rochester is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

MOLECULAR GENETICIST/ ENDOCRINOLOGIST/BIOLOGIST ASSISTANT OR ASSOCIATE PROFESSOR Department of Poultry Science The University of Georgia

Applications are invited for a 12-month tenure-track faculty position. The individual selected will be expected to develop a research program in molecular biology supported in part by external funds, grants, etc. Teaching responsibilities will include participation in an undergraduate applied biotechnology methods course. Other teaching responsibilities may include courses in genetics or endocrinology. Additional duties may include undergraduate advisement, student recruitment, and service to the industry. A Ph.D. in Molecular Biology or a related field is required. Evidence of research ability and oral and written communication skills are essential. Postdoctoral research experience is desirable. Integration of molecular biology concepts into multidisciplinary research programs in areas of poultry reproduction, nutrition, and management is essential. Applicants should submit an application letter, a résumé with a list of publications, and official transcripts. Three letters of reference should be forwarded to: **Dr. M. P. Lacy, Department of Poultry Science, Poultry Science Building, The University of Georgia, Athens, GA 30602-2772, Telephone: 706-542-1337, FAX: 706-542-1827; e-mail: mlacy@arches.uga.edu.** To assure full consideration, applications must be received by August 1, 2001.

The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

PATHOLOGIST

Cancer Research Center of Hawaii

The University of Hawaii is seeking a RESEARCH PATHOLOGIST to fill a faculty position at the Cancer Research Center of Hawaii. The Center is an NCI-designated cancer center that capitalizes on unique research opportunities related to the multiethnic population in Hawaii. The Center has several well-funded research programs and an emerging clinical investigations program. Additional resources include a population-based tumor registry and a growing tissue repository. The successful candidate will be expected to pursue independent research, to collaborate in ongoing epidemiologic and molecular investigations, and to direct a research pathology core facility. The incumbent will also be encouraged to provide instructional and consultative services at the university and its affiliated medical centers. Candidates must be Board certified in anatomic pathology or anatomic and clinical pathology, have significant experience in molecular pathology, and must have demonstrated research productivity. Faculty rank and salary will be commensurate with experience. Position will remain open until filled. First screening of applicants will be in September 2001. Please send application, a statement of current and future research interests, and the names of three references to: **Brian F. Issell, M.D., Chair, Pathology Search Committee, 1236 Laulaha Street, Honolulu, HI 96813. Telephone: 808-586-3015; e-mail: personnel@crch.hawaii.edu; website: <http://www.crch.org>.** Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL position available to study neuroimmune interactions, both systemic and within the central nervous system, following experimental spinal cord injury (SCI). This individual will join a multidisciplinary SCI group and an NIH-designated Mind/Body Center to study clinically relevant aspects of the stress-immune-wound healing axis. Technical expertise in molecular biology, small animal surgery, and microscopy are desirable. Interested candidates should submit a curriculum vitae and three references to: **Phillip Popovich, Ph.D., Department of Molecular Virology, Immunology and Medical Genetics, The Ohio State University College of Medicine and Public Health, 2078 Graves Hall, 333 West 10th Avenue, Columbus, OH 43210. E-mail: popovich.2@osu.edu.**

POSITIONS OPEN

RESEARCH SCIENTIST

The Division of Basic Medical Sciences of Mercer University School of Medicine requests applications for a Research Scientist. The successful applicant will contribute to an interdisciplinary diabetes/nutrition/metabolism research laboratory in one or more related fields (nutrition, metabolism, biochemistry, immunology, neuroscience, physiology). The successful applicant will work with NIH, NASA, and National Space Biomedical Research Institute (NSBRI), on three-year funded projects in the laboratory of **Dr. Brian W. Tobin** investigating diabetes and insulin secretion in spaceflight using microgravity-model cell culture techniques in human pancreatic islets of Langerhans (**website: <http://www.nsbri.org/research/2001-2003/nutritionproj3.html>**). The appointee will work in ongoing human islet microgravity research, contribute to abstract and manuscript writing, attend scientific meetings, and be able to write their own first author externally funded grants as desired. Applicants should have a doctoral degree (Ph.D., Sc.D., M.D.) in nutrition, biology, biochemistry, chemistry, physiology, neuroscience, or a related field and a minimum of one year of postdoctoral training. The ability to work with human tissue at the molecular and/or cellular level is desirable. Salary range is \$32,500 to \$36,500 per annum. Send a letter of application, curriculum vitae, names of three references, and a statement of interest to: **Brian W. Tobin, Ph.D., Associate Professor, Program in Nutrition and Biochemistry, Division of Basic Medical Sciences, Mercer University School of Medicine, 1550 College Street, Macon, GA 31207.** Applications will be accepted until the position is filled. Mercer University is an Affirmative Action/Equal Opportunity Employer/Americans With Disabilities Act Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL FELLOW HUMAN GENE THERAPY RESEARCH INSTITUTE

The Human Gene Therapy Research Institute (HGTRI) has available a Postdoctoral Fellow position for research in gene transfer systems and their application to the treatment and prevention of cancer.

Laboratory focus is on translational research with a long-term goal of improving gene transfer into humans. Backgrounds in virology, cancer biology, molecular biology, immunology, and microbiology will be considered. Position is available immediately. HGTRI is a not-for-profit, academic research group primarily funded by the Central Iowa Health System of Des Moines. Laboratories provide state-of-the-art equipment, animal facility, and administrative and technical support. You can learn more about HGTRI by visiting the homepage at <http://www.hgtri.org>. Applicants should submit a curriculum vitae, an outline of current and future research interests, and three references to: **Charles J. Link, Jr., M.D., Director, Human Gene Therapy Research Institute, Iowa Health System, 1313 High Street, Suite 111, Des Moines, IA 50309.** Equal Opportunity Employer/Affirmative Action/Minorities/Females/Disabled/Veterans.

Epimmune Inc. is focused on the discovery and development of a new generation of safer, more potent vaccines for the prevention and treatment of cancer and infectious diseases.

We are currently seeking a **Ph.D. SCIENTIST** to contribute to several exciting projects in the cancer and infectious diseases areas, working in a proven, fast-paced, high-quality scientific team environment focused on potential long-term medical solutions. The qualified person is required to have strong cellular immunology background, and experience in cancer and/or infectious diseases is desirable. Experience and/or training in high throughput screening and bioinformatics is a strong plus, as well as previous industry experience and good communication skills. We welcome creative thinkers to contribute to this environment. Send curriculum vitae and salary requirements to: **6850 Nancy Ridge Drive, San Diego, CA 92121. FAX: 858-860-2600.** Equal Opportunity Employer.

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POSITIONS OPEN

RESEARCH POSITIONS Columbia University Department of Dermatology

STAFF ASSOCIATE POSITIONS (2) are available for research in epidermal biology. Responsibilities involve laboratory management, including maintenance of lab products, inventory of samples and lab supplies, equipment and data; obtaining and maintaining isotopic licenses and animal protocols; management of toxic and biohazardous waste and materials; stocking of reagents and materials. Other duties include overseeing cell culture lab, implementation of recovery and processing of RNA and DNA from tissues for research; summarizing, analyzing, and presenting data; developing assays, developing and managing transgenic mouse lines, and training students, residents, and postdoctoral research fellows in simple laboratory techniques.

POSTDOCTORAL POSITIONS (3) are available for research in investigative dermatology. Specific areas of investigation are the mechanism of basal cell carcinoma development in murine models of carcinogenesis, epidermal stem cells, hair follicle biology, cell cycle, signal transduction, and neural biology.

Applicants must have Ph.D., Ph.D./M.D., M.D., or equivalent. Strong background in molecular biology and cell culture techniques and experience with animals, histology, immunohistochemistry, and laboratory techniques, including Western, Northern, Southern, PCR and RT-PCR required.

Send curriculum vitae and three references to: **Department of Dermatology, Columbia University, 630 West 168th Street, VC 15, New York, NY 10032. E-mail: cd11@columbia.edu. FAX: 212-305-7391.** Please indicate which position you are applying for. *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION ADIPOCYTE FUNCTION

A Ph.D. is sought immediately for an NIH-funded investigation of adenosine and ATP receptor signal transduction in fat cells. A background in obesity research, receptor study, fluorescence/luminescence microscopy, or cell biology will be helpful. Salary \$31,000 to \$35,000 per year; three-year position. Send curriculum vitae and correspondence to: **John C. Shryock, Ph.D., Department of Medicine, University of Florida, Gainesville, FL 32610. FAX: 352-392-5885; e-mail: shryoc@medicine.ufl.edu.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION is available immediately to study calcium sparks and spikes in cardiac excitation-contraction coupling using patch clamp and confocal fluorescence imaging techniques. Experience in electrophysiology is required; immunohistochemistry and/or molecular biology in cardiac myocytes preferred. Send curriculum vitae and three references to: **James S. K. Sham, Ph.D., Division of Pulmonary and Critical Care Medicine, Johns Hopkins School of Medicine, 5501 Hopkins Bayview Circle, Baltimore, MD 21224. FAX: 410-550-2612; e-mail: jsks@welchlink.welch.jhu.edu.**

Epimmune Inc. is focused on the discovery and development of a new generation of safer, more potent vaccines for the prevention and treatment of cancer and infectious diseases.

We are currently seeking a **Ph.D. SCIENTIST** to contribute to several exciting projects in the cancer and infectious diseases areas, working in a proven, fast-paced, high-quality scientific team environment focused on potential long-term medical solutions. The qualified person is required to have solid biochemistry, molecular biology, and molecular immunology background, and experience in cancer and/or infectious diseases is desirable. Knowledge of dendritic cells and genetic vaccines is a plus, as well as previous industry experience and good communication skills. We welcome creative thinkers to contribute to this environment. Send curriculum vitae and salary requirements to: **6850 Nancy Ridge Drive, San Diego, CA 92121. FAX: 858-860-2600.** *Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITION IN ATMOSPHERIC CHEMISTRY University of California, Irvine

The Department of Chemistry invites applications for a tenure-track position as **ASSISTANT PROFESSOR** in the area of atmospheric chemistry. We are seeking an outstanding Ph.D. who will establish a vigorous research program in areas which will complement existing strong programs in atmospheric chemistry both within the Department of Chemistry as well as in Earth System Science. Typical (but not exclusive) areas include the development of new analytical methods, studies of the fundamental chemistry and photochemistry of organic or inorganic atmospheric systems, or aerosol chemistry. The ability to effectively teach chemistry at the undergraduate and graduate levels is required. Applicants should send their curriculum vitae, a list of publications and a research proposal to: **Professor B. J. Finlayson-Pitts, Atmospheric Chemistry Search Committee, Department of Chemistry, 516 Rowland Hall, University of California, Irvine, CA 92697-2025.** Applicants should also arrange to have three letters of recommendation submitted on their behalf. To ensure full consideration, applications and all supporting materials should be received by October 15, 2001.

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

POSTDOCTORAL FELLOWS CARDIAC PHYSIOLOGY/BIOCHEMISTRY

The Program in Integrative Cardiac Metabolism at the University of Illinois College of Medicine announces Postdoctoral positions to study ischemic and hypertrophic heart disease. This multidisciplinary program supports over 5,000 square feet of research space for cardiac physiology and biochemistry with a dedicated, state-of-the-art cardiac NMR facility. Positions are open to individuals with demonstrated interest in cardiovascular science and experience with immunoassay, HPLC, gene transfer, or NMR along with isolated heart or cardiomyocyte preparations. Applicants must hold either an M.D. or Ph.D. degree. For fullest consideration, send curriculum vitae and summary of research interests to: **E. Douglas Lewandowski, Ph.D., Department of Physiology, MC901, University of Illinois at Chicago College of Medicine, 835 South Wolcott, Chicago, IL 60612. FAX: 312-996-2870.** *University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL FELLOW POSITION Mammalian Genetics/Microbiology

A Postdoctoral Fellow position is available for at least two years for NIH- and industry-funded studies on the host genetics of resistance/susceptibility to chlamydial disease in a murine model of *Chlamydia pneumoniae* lung infection. A Ph.D. degree in mammalian genetics and a background in microbiology with a minimum of three years of postdoctoral training are required. The minimum starting salary is \$30,000 plus benefits, dependent on qualifications. Send curriculum vitae, a brief summary of research experience and interests, and names of three references to: **Dr. Bernhard Kaltenboeck, Department of Pathobiology, 270 Greene Hall, Auburn University, Auburn, AL 36849-5519. E-mail: kaltebe@auburn.edu.** Review of applications will begin August 1, 2001, and will continue until the position is filled. *Auburn University is an Equal Opportunity Employer. Ethnic minorities and women are encouraged to apply.*

The Department of Pathology and Microbiology at the University of Nebraska Medical Center invites applications for an experienced **RESEARCHER** at the level of Assistant Professor for research in molecular and cytogenetics with a special emphasis on hematologic malignancies. Please send curriculum vitae and three references to: **Samuel M. Cohen, M.D., Ph.D., Chair, Pathology and Microbiology, University of Nebraska Medical Center, Omaha, NE 68198-3135.** *University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.*

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR Columbia University Department of Dermatology

The Department of Dermatology at Columbia University invites applications from outstanding research scientists investigating any aspect of investigative dermatology to enhance the existing research program. Candidates may have research interests in any area of skin biology but should have an area of interest in one of the following areas: studies of carcinogenesis, cell cycle, stem cells, imaging techniques, and molecular genetics.

Applicants must have a Ph.D. or Ph.D./M.D., with postdoctoral training, and have established a strong independent research program. Appointments are expected primarily at the level of Assistant or Associate Professor, in accordance with the qualifications and experience of the candidate.

Candidates are invited to submit a curriculum vitae, research plan, and three references to: **Department of Dermatology, Columbia University, 630 West 168th Street, VC 15, New York, NY 10032. E-mail: cd11@columbia.edu. FAX: 212-305-7391.** *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

SENIOR RESEARCH FELLOW AND POSTDOCTORAL FELLOWS Cell and Molecular Biology of Aging The University of Texas Health Science Center at San Antonio

SENIOR RESEARCH FELLOW AND POSTDOCTORAL FELLOW positions are available immediately at the newly opened Sam and Ann Barshop Center for Longevity and Aging Studies, The University of Texas Health Science Center at San Antonio, Texas. Research projects encompass a broad area of cell senescence, cell cycle and transcriptional regulation, chromatin remodeling and characterization of novel genes. Applicants should have a strong background in molecular biology and biochemistry. Interested applicants should submit a cover letter, current curriculum vitae, bibliography, and the names of three references to: **James R. Smith, Ph.D., Cell and Molecular Biology of Aging Program, Sam and Ann Barshop Center for Longevity and Aging Studies, South Texas Centers for Biology and Medicine, 15355 Lambda Drive, Room 2.200.05, San Antonio, TX 78245.** *The University of Texas Health Science Center at San Antonio is an Equal Opportunity/Affirmative Action Employer.*

Two **POSTDOCTORAL FELLOW POSITIONS** are available to study the transcriptional regulation of hematopoietic stem cell self-renewal and differentiation. These studies will involve isolation/characterization of enriched hematopoietic stem cell populations from mutant mice and retroviral-mediated gene transfer techniques. Qualified candidates will have a strong background in molecular and/or cellular biology and a high level of motivation. Please send curriculum vitae and the names of three references to: **American Red Cross Holland Laboratory, Attention: Human Resources/Reference: HL-030/Kevin D. Bunting, Ph.D., Hematopoiesis Department, 15601 Crabbs Branch Way, Rockville, MD 20855; e-mail: monicah@usa.redcross.org.** *Equal Opportunity Employer, Minorities/Females/Disabled/Veterans.*

POSTDOCTORAL POSITIONS University of California, San Diego

Two **POSTDOCTORAL POSITIONS** are available in NIH-supported projects to study the roles of ion channels and calcium in vascular smooth muscle cell proliferation and apoptosis. Experience in patch clamp technique, imaging fluorescence microscopy, or molecular biology (gene cloning and transfection, Northern and Western blot) is required. Salary commensurate with experience. Send curriculum vitae and the names of two to three references to: **Dr. Jason X.-J. Yuan, University of California, San Diego Medical Center, 200 West Arbor Drive, San Diego, CA 92103-8382. E-mail: xiyuan@ucsd.edu; FAX: 619-543-2929.**



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POSITIONS OPEN

Drug addiction: **POSTDOCTORAL POSITION** is available at the University of Miami School of Medicine to study the behavioral, neurochemical, and molecular consequences of exposure to psychostimulants. A strong interest in behavioral pharmacology and molecular techniques is required. Experience in Western and Northern blotting is desirable. Salary is based on NIH scale. Send curriculum vitae and a list of three references to: **Yossef Itzhak, Ph.D., Professor, Department of Psychiatry and Behavioral Sciences, Gautier Building 503, 1011 N.W. 15 Street, University of Miami, School of Medicine, Miami, FL 33136. E-mail: yitzhak@med.miami.edu. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE

To identify proteins involved in signal transduction during malignant transformation and apoptosis of leukemia, breast, and prostate cancer. Strong background in protein chemistry purification and proteomics is desirable. Individual will interact with five Ph.D.s with strong background in molecular and cellular biology. Excellent salary commensurate with experience. Send résumé and names of three references to: **Andrew S. Kraft, M.D., University of Colorado Health Science Center, Chief, Division of Medical Oncology, 4200 East Ninth Avenue, B171, Denver, CO 80262. E-mail: siobhan.houston@uchsc.edu.**

POSTDOCTORAL POSITION/RESEARCH ASSOCIATE/RESEARCH ASSISTANT PROFESSOR in NIH-funded laboratory studying rheumatoid arthritis (1) gene therapy and (2) angiogenesis, cell adhesion, and cytokines (*Nature* 376:517; *Science* 258:1798; *J. Clin. Invest.* 101:746). Experience with adenoviral vectors, immunoassays, angiogenesis and cell adhesion assays, arthritis animal models, gene knockout mice, signaling, and molecular biology desirable. Send curriculum vitae and three reference names to: **Dr. Alisa Koch, Northwestern University Medical School, Ward 3-315, 303 East Chicago Avenue, Chicago, IL 60611. FAX: 312-503-0994; e-mail: ae-koch@northwestern.edu.**

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

POSTDOCTORAL RESEARCH ASSOCIATE available at Baylor College of Medicine to study the role of fibroblast growth factors in the pathogenesis of benign prostatic hyperplasia and prostate cancer. Strong skills in molecular and cell biology essential, with a strong record of research productivity. Experience in prostate biology is helpful. Contact:

Dr. Michael Ittmann, M.D., Ph.D.
Department of Pathology,
Baylor College of Medicine
One Baylor Plaza
Houston, TX 77030
E-mail: mittmann@bcm.tmc.edu

POSTDOCTORAL FELLOW

Position available immediately for Fellow with experience in cellular molecular immunology to work in the neuroimmunology research laboratory at Oregon Health Science University. Please send curriculum vitae to: **Arthur A. Vandenbark, Ph.D., Neuroimmunology Research R&D-31, Portland VA Medical Center, 3710 S.W. U.S. Veterans Hospital Road, Portland, OR 97201. We are an Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN



NIH-funded **POSTDOCTORAL POSITION (RESEARCH ASSOCIATE)** available immediately at the new Arizona Liver Research Institute of The University of Arizona School of Medicine for a graduate (M.D. or Ph.D.) interested in research on topics related to the prevention of toxic liver injury by Glutathione S-transferases. Strong experience in cloning, protein-protein and protein-DNA interactions, or in biochemical purification of proteins is desirable. Salary is negotiable. Send cover letter and complete curriculum vitae and the names of three references to: **Dr. Thomas D. Boyer, M.D., Director, Arizona Liver Research Institute, AHSC Medicine, P.O. Box 245136, 1501 North Campbell Avenue, Tucson, AZ 85724. FAX: 520-626-5975. Review of materials begins July 20, 2001, and will continue until position is filled. For more information about this position, see website: <http://www.hr.arizona.edu>. The University of Arizona is an Equal Opportunity/Affirmative Action Employer; Minorities/Women/Disabled/Veterans.**

POSTDOCTORAL RESEARCH ASSISTANT CHIROPTERAN PHYLOGENY

The Department of Mammalogy at the American Museum of Natural History seeks a Postdoctoral Researcher to participate in ongoing studies of morphology, phylogeny, biogeography, and systematics of bats. This individual will be expected to assist with data collection, phylogenetic analyses, library research, and writing scientific papers for publication. A Ph.D. in biology (or a related field) and a strong background in systematics are required; prior experience with morphology, molecular data, and/or combined data analyses are desirable. Candidates should send the following application materials: curriculum vitae (including e-mail contact address), statement of research interests and goals, and copies of all relevant publications. Candidates should request letters of recommendation from at least three qualified reviewers. All materials should be sent to: **Dr. Nancy Simmons, Chair, Division of Vertebrate Zoology, American Museum of Natural History, New York, NY, U.S.A. 10024. E-mail: simmons@amnh.org.** Evaluations will begin immediately and will continue until the position is filled. *Equal Opportunity/Affirmative Action Employer. Women and minority candidates are strongly urged to apply.*

MASSACHUSETTS GENERAL HOSPITAL Harvard Medical School

Two **POSTDOCTORAL POSITIONS** are available immediately in the Center for Molecular Imaging Research to develop novel imaging technologies for *in vivo* detecting of biological targets and molecular processes (e.g., *Nature Med.* 7:743, 2001). Candidates with expertise in bioconjugation chemistry, fluorescence chemistry, biochemistry, or enzymology are invited to apply. Please send curriculum vitae and contact information for three references to: **Dr. Ching H. Tung, Center for Molecular Imaging Research, Massachusetts General Hospital, 149 13th Street Number 5406, Charlestown, MA 02129. E-mail: tung@helix.mgh.harvard.edu.**

ADVANCED POSTDOCTORAL FELLOWSHIP. Laboratory of **Stephen B. Liggett** is seeking a Fellow with potential for subsequent faculty position at the University of Cincinnati College of Medicine. Research expertise in G protein-coupled receptor biology, pharmacogenetics, or transgenic mice preferable. Send résumé to: **Stephen B. Liggett, University of Cincinnati College of Medicine, 231 Albert Sabin Way, Room G167, P.O. Box 670564, Cincinnati, OH 45267-0564. Telephone: 513-558-0484; FAX: 513-558-0835; e-mail: stephen.liggett@uc.edu. The University of Cincinnati is an Equal Opportunity Employer and encourages the application of women and minorities.**

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP National Institute of Neurological Disorders and Stroke

The Stroke Branch at the National Institute of Neurological Disorders and Stroke is seeking a Postdoctoral Fellow for a two-year appointment to work in a newly created program of clinical research studying the gender aspects of acute and chronic stroke. The research will focus on (1) the study of pathophysiology of stroke in women using ultrahigh resolution brain scanning and (2) epidemiological studies. The position is available immediately. Salary will be commensurate with experience.

The successful applicant will hold a Doctor of Philosophy degree (preferably in neuroscience or epidemiology) or a degree in medicine with specialization in internal medicine or neurology. Further information concerning the Fellowship should be directed to: **Dr. Alison E. Baird, NINDS/NIH.** To apply for this position, forward by mail or e-mail a statement of current and future research interests, a curriculum vitae, and the names of three references to:

Dr. Alison E. Baird
National Institutes of Health
National Institute of Neurological Disorders
and Stroke
36 Convent Drive
MSC 4129, Room 4A03
Bethesda, MD 20892-4129
Telephone: 301-896-2945
FAX: 301-896-4002
E-mail: bairda@ninds.nih.gov

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POSTDOCTORAL POSITION

University of Texas School of Public Health

The University of Texas School of Public Health has a Postdoctoral position available at its new facility at the border campus in Brownsville to develop and carry out a research program in emerging diseases based on molecular approaches to pathogen detection and molecular epidemiology. Emphasis will be placed on developing and applying new and more precise tools for the detection of new and existing pathogens presenting particular hazards to populations in and beyond the border area. Applicants should possess a Ph.D., be highly motivated, and be able to work with a team as well as independently. Candidates with backgrounds in molecular virology or bacteriology; pathogenesis; or general molecular biology, cell biology, and/or cellular immunology are encouraged to apply. Qualified applicants should submit their curriculum vitae, a brief statement of research interests, and the names of three references to: **e-mail: jmcormick@sph.uth.tmc.edu or Dr. Joseph McCormick, UT School of Public Health MPH Program at Brownsville, 80 Fort Brown, SET B, Room 1.334, Brownsville, TX 78520.**

Additional information about this position and the UT School of Public Health Division of the Lower Rio Grande Regional Academic Health Center can be found at **website: <http://www.sph.uth.tmc.edu:8055/brownsville/>.** *The University of Texas is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS available to study mechanisms of DNA replication and recombination using herpes simplex virus. Specific projects are transactivation of heat shock genes by herpes simplex virus Type 1, function of UL9 protein in DNA unwinding and initiation of DNA replication, and enzymology of recombination-mediated restart of DNA replication. Further information is available at **website: <http://amigal.med.miami.edu/Faculty/boehmer.htm>.** Candidates with a Ph.D. please send curriculum vitae and names and addresses of three references to: **Dr. Paul E. Boehmer, Department of Biochemistry and Molecular Biology (R-629), University of Miami School of Medicine, P.O. Box 016129, Miami, FL 33101. E-mail: pboehmer@molbio.med.miami.edu.**

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RESEARCH ASSOCIATE Department of Plant Pathology Michigan State University

POSTDOCTORAL POSITION is available immediately. The appointment is for two years, subject to grant renewal.

Qualified candidate will use available dollar spot-resistant creeping bentgrass germplasm to work toward identification of gene(s) involved in this resistance. In addition, the candidate will work, cooperatively, to determine the mechanism(s) of pathogenicity in the dollar spot pathogen.

A Ph.D. in plant sciences, genetics, or related areas; experience in molecular biology techniques, including genomics, is required. Working knowledge or experience in functional genomics, plant pathology, plant breeding, and computer technology is desired.

Application should include a description of your background and research goals, a curriculum vitae, transcripts, and three letters of reference. Send application to: **Dr. Joseph Vargas, Michigan State University, Department of Plant Pathology, 102 Center for Integrated Plant Systems, East Lansing, MI 48824.** For more information, contact Dr. Vargas, Telephone: 517-353-9082; FAX: 517-353-5598; e-mail: dykema@msu.edu.

The application deadline is August 10, 2001, or until position is filled.

POSTDOCTORAL POSITION available immediately to study molecular mechanisms of protein tyrosine phosphatases and a new class of phosphatase inhibitors in signal transduction and tumorigenesis. Project offers an exceptional opportunity to join a group of cancer researchers working at the interface of cancer biology, pharmacology, and chemistry. Candidates with M.D. and/or Ph.D. and research experience in cell/molecular biology and signal transduction should send curriculum vitae and names of three references to: **Dr. Brian I. Carr, Department of Surgery, University of Pittsburgh, E1552 BST, 200 Lothrop Street, Pittsburgh, PA 15213;** e-mail: carrbi@msx.upmc.edu.

POSTDOCTORAL FELLOWSHIP available in molecular genetics for work on the identification of candidate genes involved in peak bone density and bone formation response to mechanical forces. Experience in mouse genetics and linkage analysis is essential. Ph.D. in molecular biology or molecular genetics is required; good publication record and writing skills are an advantage. Salary and benefits are competitive and the possibility exists for a long-term position. To apply, send curriculum vitae, cover letter, and the names of three references to: **S. Mohan, Ph.D., Musculoskeletal Disease Center of Loma Linda University, P.O. Box 7210, Loma Linda, CA 92354.**

Two positions funded by the Cardiovascular Center of Excellence are available to study the signal transduction mechanisms related to the effect of nitric oxide and protein tyrosine phosphatases on migration, proliferation, and collagen synthesis by vascular smooth muscle cells. Our projects address basic science questions but also have relevance to clinical problems. Experience in the techniques of molecular biology is essential. Send curriculum vitae and the names of three references to: **Dr. Aviv Hassid, Department of Physiology, University of Tennessee, 894 Union Avenue, Memphis, TN 38163.** E-mail: hassid@bellsouth.net. FAX: 901-448-7126.

FELLOWSHIPS



FELLOWSHIP TRAINING PROGRAM CLINICAL CANCER GENETICS

The Clinical Cancer Genetics Program, Division of Human Genetics, Department of Internal Medicine, seeks applications for a **POSTDOCTORAL FELLOW** in clinical cancer genetics. The Ohio State University has taken a lead role in establishing a new area of subspecialty medicine by establishing a postdoctoral fellowship training program in clinical cancer genetics. The primary goal of this program is to train academic human cancer geneticists who are clinical investigators and expert clinicians in this field. Depending on the individual, the program would last from two to four years. The core year would entail formal teaching in human genetics and cancer genetics, rotation through cancer genetics clinics, high-risk organ-specific clinics, and multidisciplinary organ-specific clinics groups; rotations through diagnostic laboratories; and formal teaching in clinical research and biostatistics. Graduates are expected to participate in ongoing clinical care and research in cancer genetics while launching clinical investigation in novel areas.

A highly competitive recruitment package is available and the successful candidate could begin as early as July 1, 2001. Dedication to the pursuit of excellence in patient care and research in human cancer genetics is essential.

Interested applicants should send, fax, or e-mail curriculum vitae and research plans to:

Charis Eng, M.D., Ph.D.
Director, Clinical Cancer Genetics Program
The Ohio State University
690 Tzagouris Medical Research Facility
420 West 12th Avenue
Columbus, OH 43210
Telephone: 614-293-7775
FAX: 614-688-3582
E-mail: eng-1@medctr.osu.edu

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GLOBAL OPPORTUNITIES

THE ACADEMIC SECRETARIAT OF THE WEIZMANN INSTITUTE OF SCIENCE ANNOUNCES THE AVAILABILITY OF:
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A limited number of the above **VISITING PROFESSORSHIPS** in the Natural and Exact Sciences, during the academic year of October 2002 to September 2003. The Visiting Professorships are intended for candidates already holding the rank of Full Professor or equivalent and will be for the duration of two months to one year. Prior to application, candidates are required to establish the contact with prospective host. Applications and information are available on the Internet at [website http://www.weizmann.ac.il/acadsec/visit_prof_home.html](http://www.weizmann.ac.il/acadsec/visit_prof_home.html). Deadline for submission of completed applications is December 31, 2001.

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Rehovot, 76100, Israel
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FAX: 972-8-9344492
E-mail: academic.secretariat@weizmann.ac.il

POSITIONS OPEN

POSTDOCTORAL POSITIONS to participate in NIH-funded projects studying the molecular mechanisms of lipid metabolism and atherosclerosis using animal models. Candidates should have a Ph.D. in biochemistry, molecular biology, or related discipline. Please submit curriculum vitae and a list of references to: **Xian-Cheng Jiang, Ph.D., 450 Clarkson Avenue, Box 5, Department of Anatomy and Cell Biology, SUNY Downstate Medical Center, Brooklyn, NY 11203.** E-mail: xjiang@netmail.hscbklyn.edu.

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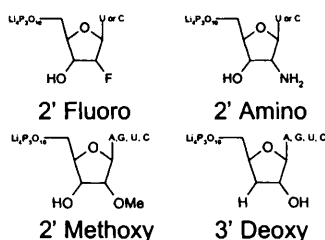
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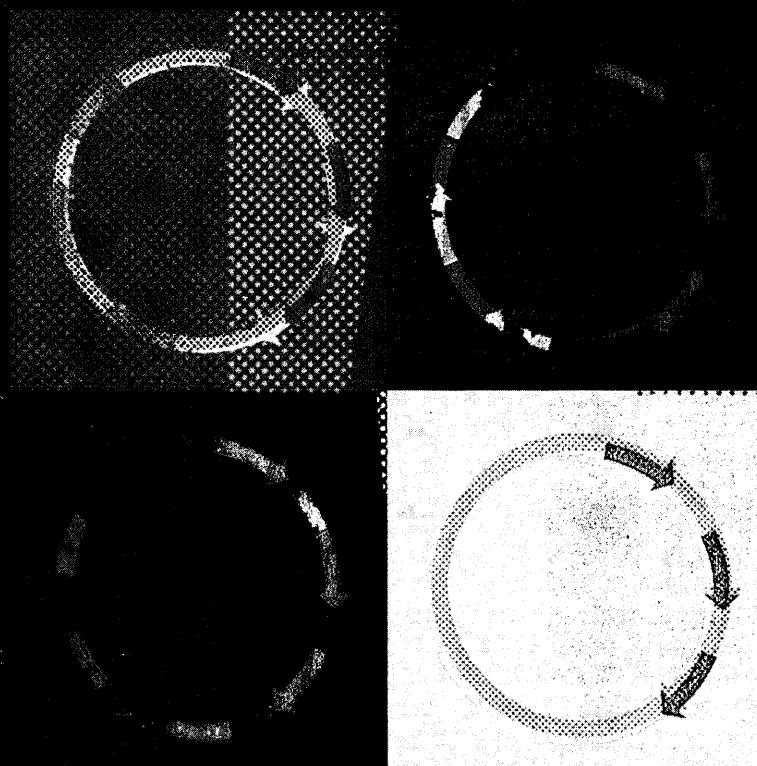
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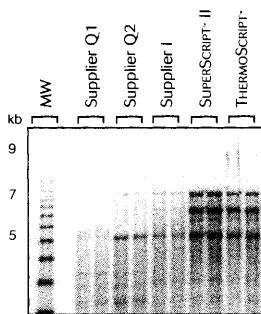


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Comparison of yields of cDNA synthesis using various reverse transcriptases.

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