

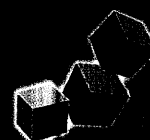
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PCR TOOL AND MORE

Oligo is a software product that aids researchers in the design and analysis of oligonucleotides for use in nucleotide sequencing reactions, polymerase chain reaction (PCR), site-directed mutagenesis, or hybridiza-

tions. Easy to use, Oligo predicts ideal oligonucleotides after analyzing sequences according to user-specified criteria. Sequences can be brought into the program by a variety of means. Files may be imported from GenBank or European Molecular Biology Laboratory (EMBL) databases or from common sequence analysis programs or word processors. Other options include cutting and pasting or manual entry.

Oligo's designers have incorporated a number of recent developments in primer design, including the option to select primers based on priming efficiency and the use of the nearest-neighbor method to determine melting temperature, both of which are more reliable than traditional approaches based primarily on GC content and melting temperature. Primer selection is entirely flexible and allows the user to delimit the nucleotide region where the primers should be chosen, as well as to specify a range of other common, and less common, primer parameters. Some parameters include degree of degeneracy (allowable mismatch from the sequence data), acceptable dimer length and ΔG (free-energy of duplex formation), GC clamp stability, and allowable false priming. The program will then generate a list of potential primers, complete with basic information such as location in template, melting temperature, priming efficiency, degeneracy, PCR product length, and other calculated data. Users can click through the primer list and visualize the primer-dimer and hairpin formation summaries for each primer set after selecting the "analyze" function. The list of selected primers can also be sorted by product length, ΔG , or other characteristics, as desired by the user.

The properties of user-defined primers may be examined by entering the sequence of the primer into the program and selecting the "analyze command" function. In addition to basic primer selection, Oligo can identify consensus primers (where target sequence is uncertain). The program will also search for degenerate primers. Additional options include design of primers for Ligase Chain Reaction (LCR), quantitative PCR, site-directed mutagenesis, multiplex PCR, and for detection of point mutations. Other useful features include calculators for hybridization time, concentration, and restriction enzyme analysis.

Although the graphics in Oligo look good on screen, their printed form is lackluster. For example, the PCR window graphically illustrates the location and direction of primers on the template, but the image cannot be printed by the program. Despite shortcomings in printing, Oligo makes designing primers easy by performing the painstaking analyses necessary to find optimal primers. The software's overall flexibility, speed of operation, and breadth of analysis are clearly its strong points.

—Caroline M. Press

Department of Botany and Plant Pathology, Oregon State University, Corvallis, OR 97331, USA. E-mail: pressc@bcc.orst.edu

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PCR Cloning Kits combine high-efficiency hybridization with robust EZ Competent Cells for fast, simple cloning of polymerase chain reac-

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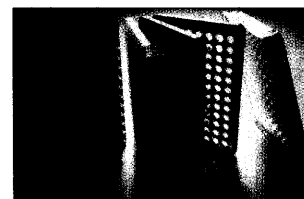
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MICROTITER PLATE

The Eppendorf twin.tec PCR plate is the first microtiter plate for polymerase chain reaction (PCR) to offer the advantages provided by construction using two materials. Poly-

carbonate, a particularly rigid material, is used for the frame and the plate surface. The wells are made of polypropylene, the optimum material for PCR tubes. The use of polycarbonate processed by means of injection-molding ensures uncomplicated handling. Higher mechanical stability provides improved plane parallelism from the plate surface both during and after PCR, thus guaranteeing high seal security. With absolutely minimal deviation from true, the plate is suitable for applications using automatons or robots. Minimized deflection of the lateral edges facilitates plate handling with grippers.



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COMPARATIVE RT-PCR KIT

The IntraSpec Comparative RT-PCR Kit compares the abundance of target messages simultaneously in two RNA samples and is suitable for confirming and quantitating results obtained from array analysis and differential display. The kit achieves the same level of sensitivity as standard methods of reverse transcription-polymerase chain reaction (RT-PCR), without the drawbacks of extensive optimization or competitor synthesis.

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The ImProm-II Reverse Transcription System is an optimized set of reagents designed for efficient, robust synthesis of first-strand cDNA in preparation for polymerase chain reaction (PCR) amplification. The system can be used to reverse-transcribe RNA templates starting with either total RNA, poly

CONTINUED ON PAGE 1558

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CONTINUED FROM 1557 **FEATURING: PCR**

(A)+ mRNA, or synthetic transcript RNA. The reaction conditions and optimized reagents enable robust, full-length cDNA synthesis for the reproducible analysis of rare or long messages. The cDNA synthesis conditions have been formulated for stand-alone applications for easy transition to gene-specific target amplification. Volumes from 1 μ l to 20 μ l of the reverse transcription reaction can be directly amplified in coupled or uncoupled PCR reactions.

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PCR PREP KIT

The FASTPrep 96 Kit is a new 96-well plate for polymerase chain reaction (PCR) cleanup. The kit can be used to purify PCR reactions prior to DNA arraying, sequencing, cloning, or other reactions that require high-purity DNA. The new kit efficiently removes the residual reactants found in unpurified PCR products, such as nucleotides, enzymes, and salts that may adversely affect the downstream processes. The kit, in a convenient 96-well plate format, ensures high-yield, high-purity DNA.

Thermo Hybaid

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POLYCARBONATE PCR PLATE

The OmniUltra is an injection-molded polymerase chain reaction (PCR) plate that offers a number of advantages to PCR users. Injection molding confers excellent accuracy of fit, ensuring consistent PCR results. The polycarbonate material itself gives other additional advantages over conventional polypropylene PCR plates. First, polycarbonate can be gamma-irradiated for sterility without becoming brittle, thus ensuring the complete removal of all potentially contaminating nucleic acids and nucleases. Polycarbonate also has superior sealing characteristics compared with polypropylene, and thus, does not require expensive heated sealing solutions to give a perfect seal. Polycarbonate is receptive to different coatings for more advanced PCR protocols.

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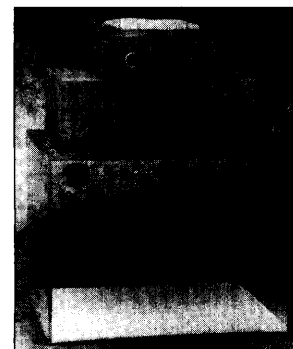
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PCR PREP STATION

The Airfiltronix PCR Prep station provides continual protection during the preparation and temporary storage of polymerase chain reaction (PCR) sample tubes. It protects products and sample from contamination with Class 100 clean air or better. A high-efficiency particulate air (HEPA) filter rated 99.99% efficient at 0.3 microns and a Dacron prefilter rated 65% efficient at 6 microns create a particulate-free work area of better than 100 ppm. To further reduce the risk of contamination of samples, the prep station incorporates a 15-watt ultraviolet sterilization lamp to destroy any potentially contaminating DNA or RNA. The enclosure is constructed of ultraviolet-stabilized acrylic. The hood includes a vertically hinged polycarbonate door. The work surface is a smooth, white polyethylene surface that is easy to clean. A 15-watt fluorescent lamp lights the work area.



Applied Biosystems

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application-specific software in a single instrument. Smaller and more cost-effective than many other real-time PCR instruments, the 7000 SDS detects accumulated PCR products cycle-by-cycle, thus making quantitative results available immediately after completion of PCR, without the need for further processing or analysis. The instrument is particularly suited for gene expression and pathogen detection studies, both of which are real-time, quantitative PCR applications used extensively in basic and human disease research. The system's multicolor detection capability allows researchers to perform a wide variety of assays, including multiplex quantitation. It also performs nonquantitative endpoint assays, such as allelic discrimination and plus/minus assays using an internal positive control.

Millipore

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throughput polymerase chain reaction (PCR) and sequencing reaction cleanup. The 384-well filter plates incorporate Millipore's unique size-exclusion technology, enabling users to process smaller sample volumes, resulting in lower reagent consumption for se-

SEQUENCE DETECTION SYSTEM

The ABI PRISM 7000 Sequence Detection System (SDS) for real-time polymerase chain reaction (PCR) applications combines thermal cycling, fluorescence detection, and

quencing and no added reagents for PCR cleanup. These filter plates follow fast, vacuum-based protocols that involve no centrifugation or precipitation steps. Samples are filtered to dryness in 10 to 12 min, with sample recovery by reconstitution and pipette retrieval.

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New additions to the line of Multi-Screen multiwell filter plates—MultiScreen₃₈₄-PCR and SEQ—are designed to provide fast, centrifugation-free platforms for high-throughput polymerase chain reaction (PCR) and sequencing reaction cleanup. The 384-well filter plates incorporate Millipore's unique size-exclusion technology, enabling users to process smaller sample volumes, resulting in lower reagent consumption for se-

quencing and no added reagents for PCR cleanup. These filter plates follow fast, vacuum-based protocols that involve no centrifugation or precipitation steps. Samples are filtered to dryness in 10 to 12 min, with sample recovery by reconstitution and pipette retrieval.

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AccuPrime Taq combines the automatic hot-start polymease chain reaction (PCR) technology of anti-Taq DNA polymerase antibodies with a proprietary accessory protein to control mispriming and deliver high PCR product specificity.

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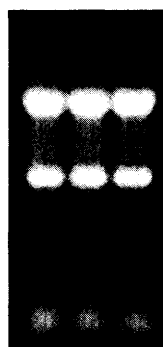
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COMPARATIVE EVOLUTIONARY BIOLOGY OF INSECTS University of Michigan

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Chair, Evolution of Insects Search Committee
Department of Ecology and Evolutionary Biology
University of Michigan
Ann Arbor, MI 48109-1048

Review of application materials will begin January 7, 2002. *The University of Michigan is a nondiscriminatory Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITIONS

**Department of Speech and Hearing Sciences and
The Center for Mind, Brain, and Learning
University of Washington**

The Department of Speech and Hearing Sciences (website: <http://depts.washington.edu/sphsc/>) in conjunction with the Center for Mind, Brain, and Learning (website: <http://depts.washington.edu/cmbi/>) expects to fill two tenure-track positions in the area of brain and language. Appointment is anticipated at the **ASSISTANT** or **ASSOCIATE PROFESSOR** rank, but candidates with exceptional qualifications may be considered for appointment at the rank of Professor. We are particularly interested in individuals who combine behavioral and neuroscience approaches to language perception or production. One position will focus on adult populations, and one position will focus on infants and/or children. Applicants are expected to have demonstrated excellence in research publication and will be expected to provide high-quality teaching at both the undergraduate and graduate levels. The Center for Mind, Brain, and Learning encourages interdisciplinary and collaborative research on lifelong learning with a special emphasis on the zero-to-five age range. To apply, send a detailed statement of research and teaching interests, curriculum vitae, not more than four reprints or preprints, evidence of teaching effectiveness, and at least three letters of recommendation to:

Brain and Language Search Committee
Department of Speech and Hearing Sciences
University of Washington
1417 N.E. 42nd Street
Seattle, WA 98105-6246
E-mail: pkkuhl@u.washington.edu

Applications received by January 1, 2002, will receive full consideration. Ph.D. required by date of appointment. *The University of Washington is building a culturally diverse faculty and strongly encourages applications from female and minority candidates. The University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT/ASSOCIATE PROFESSOR Department of Pathology and Laboratory Medicine The Texas A&M University System Health Science Center College Station, Texas

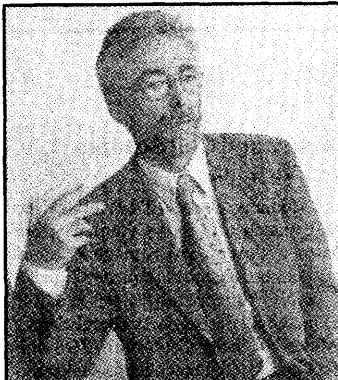
The Department of Pathology and Laboratory Medicine at the Texas A&M University System Health Science Center at College Station, Texas, seeks applications for a tenure-track position at the Assistant or Associate Professor level. Level of appointment will be determined by experience and record of accomplishment. Applicants should have an M.D. or M.D./Ph.D. degree(s) with postgraduate training in pathology and research. The Department, the Medical School, and Texas A&M University provide broad research programs and support.

The successful candidate will receive a competitive salary and start-up package and will be expected to develop an independent research program and participate in teaching medical students and graduate students. Applicants should submit curriculum vitae, the names of at least three references, and a statement of their research goals and interests. For full consideration, completed applications should be submitted by February 15, 2002.

Applications should be submitted to:

George Davis, M.D., Ph.D. or
Julian Leibowitz, M.D., Ph.D.
Faculty Search Committee
Pathology and Laboratory Medicine
TAMUSHSC College of Medicine
208 Reynolds Medical Building
College Station, TX 77845-1114
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Labhead Diversity Management

Basel, Switzerland
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Ph.D. or equivalent experience in cheminformatics • Experience with relational and structural databases • Programming experience using PL/SQL, C++ and Perl.

Management of physical and virtual compound databases, analysis of molecular diversity and the evaluation of novel compound collections.

Labhead HTS Data Analysis

Basel, Switzerland
Ref No. N01205

Ph.D. or equivalent work in cheminformatics or QSAR • Experience with relational and structural databases • Programming experience using PL/SQL, C++ and Perl • Expertise in Medicinal Chemistry desirable.

Design, implementation and running of a high-throughput HTS data analysis platform.

Labhead HT Docking

Basel, Switzerland
Ref No. N01206

Ph.D. or equivalent work experience in HT docking • Programming experience using PL/SQL, C++ and Perl • Expertise in Structural Biology desirable.

Implementation and application of an HT docking platform.

Database Specialist/ Software Engineer

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**University of Virginia
HEALTH SYSTEM**

Director of Flow Cytometry and Cell Sorting **University of Virginia**

The University of Virginia School of Medicine seeks a Director for the Laboratory of Flow Cytometry who will manage the Flow Cytometry Core Facility, support research and development of flow cytometry methods, interact with faculty and students to interpret data and extend current capacities in flow cytometry at the University. The Flow Cytometry facility serves a user base of some 50 individual laboratories including the Beirne B. Carter Center for Immunology Research and The Myles H. Thaler Center for AIDS and Human Retrovirus Research. The current facility contains Becton-Dickinson FACScalibur and FACSvantage units. A key component of this position is the ability to interact and communicate with faculty in the development of new projects requiring flow cytometry. The successful applicant will be expected to stay current with developments in the field of flow cytometry and its application to basic and clinical research. The director will train personnel in the facility, manage the facility budget and trouble shoot instrument problems.

The position of Director is a faculty level position in the Department of Microbiology at the University of Virginia and includes full University benefits. Salary is commensurate with experience.

Applicants must have a M.S. or Ph.D. in cell biology or a related field or a BS in engineering and documented experience directing and/or utilizing flow cytometry. Familiarity and practical experience with a wide range of flow cytometry applications is required.

Interested individuals should send a letter of application, an up to date Curriculum Vitae and the names, phone numbers and addresses of three individuals who will serve as references to: **Dr. Timothy P. Bender, Ph.D., Department of Microbiology, University of Virginia, P.O. Box 800734 Health System, Charlottesville, VA 22908-0734. Email: tpb3c@virginia.edu; FAX: (434) 982-1071.**

Applications will be reviewed upon receipt by the search committee.

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Tenure-Stream Position in Molecular/Cell Biology **Department of Medical Genetics & Microbiology** **University of Toronto**

We are searching for a tenure-stream appointee in the broad area of fundamental molecular and cell biology. The applicants should have a Ph.D. degree or equivalent and postdoctoral experience. They should be capable of mounting an original, competitive and independently funded research program in the area of molecular and cell biology. Applicants undertaking basic research using model organisms such as yeast and other microbes, *C. elegans*, *Drosophila* and *Xenopus* are encouraged to apply. The appointee will be expected to have a commitment to undergraduate and graduate education in molecular biology and genetics or microbiology. The appointee will benefit from recent efforts at the University of Toronto and affiliated teaching hospitals to expand research in proteomics, genomics and cell imaging through academic programs and new infrastructure.

Effective July 1, 2002, the appointment will normally be made at the Assistant Professor level. The University is strongly committed to diversity within its community and especially welcomes applications from visible minority group members, women, Aboriginal persons, persons with disabilities, members of sexual minority groups, and others who may contribute to further diversification of ideas. Applicants need not be Canadian citizens.

Send C.V., a summary of research interest and 3 letters of reference before December 10, 2001 to:

Dr. Brenda J. Andrews, Ph.D.
Chair, Department of Medical Genetics and Microbiology
University of Toronto
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Toronto, Ontario M5S 1A8 Canada
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Department website: <http://www.utoronto.ca/medicalgenetics/>

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Glaxo SmithKline is at the forefront of the pharmaceutical industry's efforts to derive the maximum therapeutic benefit from the Human Genome. Our systematic approach in exploiting classes of potential target proteins for drug discovery combined with our capacity to implement innovative ways to broadly define and characterize the biological effects of our novel chemical entities, allows us to fulfill Our Vision...to marry genes and chemistry in order to effectively develop a small molecule ligand for every potential drug target. Our Commitment...is to invest \$4 billion each year in R&D to support and reward the creativity, innovation and spirit of our staff who has taken the challenge to develop novel treatments for human disease.

We are looking for scientists who share Our Passion and Our Spirit...to be the leader in unraveling the genome's secrets and apply that knowledge to the development of medicines for the treatment of human disease. Our line functions are interdependent, where drug discovery is achieved in matrix teams. These teams integrate all program activities to increase our understanding of ligand-induced changes in gene and protein expression within complex biological systems.

Senior Research Investigator

In this position, you'll lead a team of scientists dedicated to the discovery of the biological actions and therapeutic potential of target class proteins. Utilizing high quality chemical tools and platform technologies, you'll advance our knowledge of the role of nuclear receptors in cellular physiology. Additionally, you'll interface with key collaborators in other departments and divisions. A Ph.D. in Molecular Biology or related field required with a minimum of 8 years' post-graduate experience. Experience conducting innovative research focused on target validation essential. Excellent communication skills a must with the ability to work well in a team-oriented environment. (Job Code: 13275)

Research Investigator I/Research Investigator II

With a Ph. D. in Biological Sciences and a minimum of 2 years' post-graduate experience working with cellular signaling related to G-protein coupled receptors and/or protein kinases, you'll work with scientists in other departments and divisions to build target validation strategies. A strong knowledge of molecular and cellular biology is required. Experience applying microarray technology (i.e., transcriptional analysis/differential gene expression) to target discovery and validation desirable. Additionally, you'll be responsible for creating and utilizing appropriate cell-based systems to characterize ligand modulation of cellular pathways and phenotypes and link potential drug targets to pathophysiology. Strong communication skills a must with the ability to work well in a team-oriented environment. (Job Codes: 12529 & 13340)

Research Investigator I/Research Investigator II

Here's an opportunity to lead a team developing and implementing phenotypic cellular models for high content screening technology platforms. As an integral part of HTB's in vitro cell physiology effort, you'll assist with characterizing the biological actions and therapeutic potential of novel targets, ligands, and leads. A Ph.D. in the Biological Sciences or a

related field required coupled with a minimum of 4 years' related post-graduate research experience. Strong knowledge of cell biology with expertise in cell culture, fluorescence microscopy and molecular cell biology techniques required. Experience in confocal microscopy and image analysis and automated cell-based assays highly desirable. Excellent organizational, decision-making, problem-solving, and communication skills essential along with the ability to work effectively in a team-oriented environment. (Job Code: 12102)

Senior Scientist

Provide high quality DNA sequencing support to SNP discovery groups while coordinating and implementing a process for sequencing PCR amplification products for SNP Discovery. This includes DNA sequencing reaction set-up, processing and operation of DNA sequencing instrumentation. Additionally, you'll troubleshoot, including the inclusion of necessary QA/QC experiments; oversee data management, analysis and tracking of continued technological improvements to increase productivity and cost-efficiency; handle data reporting, management, and interactions as appropriate with the teams and projects involved with SNP Discovery; and interact with staff involved in SNP Discovery and Core Sequencing process. A Bachelor's or Master's Degree in Molecular Biology or Biochemistry required coupled with a minimum of 2-4 years' experience with high-throughput sequencing, including capillary instrumentation. Additional qualifications include experience performing molecular genetics techniques including polymerase chain reaction (PCR), genotyping, sample handling, data analysis and customer interaction; experience in the provision of quality DNA sequence data in a high-throughput format; knowledge of SNP discovery; and expertise with DNA sequencing and analysis software (LIMS tracking software, Sequencher software, BLAST etc.). Strong organizational and communication skills essential along with the ability to work in a team-oriented environment. (Job Code: 13372)

GlaxoSmithKline is dedicated to an innovative workplace and supports you with career-long opportunities and learning. We offer a competitive benefits and compensation package designed to attract and retain the very best. For confidential consideration and efficient processing, please visit our website at www.gsk.com, indicating Job Code. Principals only, no agencies please.

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Together we can make life better.





The Faculty of Science of the University of Zurich invites applications for a

tenure-track Assistant Professorship in Microbiology / Plant Microbiology

The successful candidate must have a record of excellent postgraduate research and is expected to develop a vigorous, innovative research program in the area of plant microbial interactions. The research should focus on ecological questions and complement the expertise of other research groups working on plant biology and microbiology in Zurich. The appointee will be expected to play a central role in a newly developed microbiology curriculum (jointly with the Faculties of Medicine and Veterinary Medicine and the Swiss Federal Institute of Technology, ETH) and to be able to teach in German at the latest after three years.

Applications including a curriculum vitae, list of publications, short summaries (less than two pages each) of past and future research interests and copies of three key publications should be sent by January 15, 2002 to Prof. Dr. K. Brassel, Dekanat der Mathematisch-naturwissenschaftlichen Fakultät der Universität Zürich, Winterthurerstrasse 190, CH-8057 Zürich, Switzerland. At the same time please submit the CV, list of publications and the summaries in a single file to jobsnmf@zuv.unizh.ch.

For additional information please consult

<http://www.botinst.unizh.ch>, <http://www.plantscience.unizh.ch/institutes.htm>, Prof. Dr. F. Jüttner (juettner@limnol.unizh.ch) or Prof. Dr. B. Keller (bkeller@botinst.unizh.ch), Institute for Plant Biology, University of Zurich, Zollikerstrasse 107, CH-8008 Zürich.



POSTDOCTORAL TRAINING

Membrane Traffic, Cytoskeletal Organization, and Disease
Rochester, Minnesota, U.S.A.

Join a group of highly interactive NIH-funded investigators at the Mayo Clinic in Rochester, MN and study the molecular mechanisms of membrane traffic in disease. Candidates with a recent M.D. or Ph.D. may apply. Outstanding foreign applicants with previous research experience will be considered for training-supported positions. The Faculty and research areas include:

E. Leof, PhD – Coupled endocytosis and signaling of TGF- β receptor complexes in neoplasia and fibrosis. http://www.mayo.edu/research/leof_lab/

C.T. McMurray, PhD – Aggregation and transport defects induced by expanded polyglutamine proteins in Huntington's Disease. http://www.mayo.edu/research/people/1/10477_mcmurray/

M.A. McNiven, PhD – Cytoskeletal membrane organization and dynamics during endocytosis, cell migration and neuronal growth. http://www.mayo.edu/mcniven_lab/

R.E. Pagano, PhD – Synthesis, transport, and function of lipid molecules in normal and storage disease cells. http://www.mayo.edu/pagano_lab/

Salary will be determined by the successful candidate's experience. There is an attractive benefit package. Mayo Clinic Rochester is a not-for-profit organization. Mayo integrates research with clinical practice and education in a multi-campus environment.

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

Ms. Kathryn Streich
Stabile Building 8
Mayo Clinic Rochester
200 First Street SW
Rochester, MN 55905

See: <http://www.mayo.edu/mgs/bmb/>

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



NCI SCIENTIFIC REVIEW ADMINISTRATORS

The **Grants Review Branch** in the Division of Extramural Activities of the **National Cancer Institute (NCI)**, the largest component of the National Institutes of Health, has several immediate openings for **Experts** to serve as **Scientific Review Administrators** to manage all aspects of the scientific peer review process for grant applications submitted to the NCI. **Candidates should have independent research experience in current methods of cancer research in (1) Clinical immunology related to cancer pathogenesis or treatment, OR (2) Translational and/or clinical research in cancer biology, detection, diagnosis and/or treatment.** Candidates should also be familiar with the NIH grant application review and support process. These positions are based in Rockville, Maryland, a suburb of Washington DC, but some travel (site visits) will be involved.

The Title 42 Expert Appointment mechanism allows the NCI and the successful candidates additional flexibility, including:

- rapid appointment process, with relocation package;
- flexibility in setting initial compensation levels;
- initial appointments for periods up to 5 years, with unlimited extensions in increments of up to 5 years;
- more flexible levels and frequency of salary increases; and
- full comparability in fringe benefits and pension plan with the Civil Service

Salary levels will generally be in the GS 13-14 equivalent ranges, currently \$63,211- \$97,108, depending on qualifications. Applications will be accepted for consideration until the positions are filled. Please send a current CV or Resume with bibliography and references to:

Olivia Preble Bartlett, Ph.D.
Chief, Grants Review Branch
Division of Extramural Activities,
National Cancer Institute
Fax: 301-496-6497
E-Mail: op2t@nih.gov

Selection for these positions will be based on merit, with no discrimination for non-merit reasons such as race, color, gender, national origin, age, religion, sexual orientation, or physical or mental disability. The NCI/NIH is an Equal Opportunity Employer. Previous applicants do not need to reapply.

Join one of the nation's top research universities and grow along with us.

The best is yet to come.

Biological science departments at the University of Minnesota are hiring 41 new faculty at all levels over a four-year period. Many of these positions support the University's Molecular and Cellular Biology Initiative. The initiative, one of the University's top priorities, includes investments in human and physical resources to position the University of Minnesota as a leader in biology.

New faculty will be based in the new \$84 million Molecular and Cellular Biology Building, the Cargill Microbial and Plant Genomics building (due to be completed in early 2003), the new Ecology Building, or in one of the existing strategically located modern facilities. Several research and development buildings are part of the planned University of Minnesota Biotechnology Precinct, a joint public-private venture that will take advantage of the University's full array of biological science expertise to develop applications based on modern advances in biology. Opportunities abound for interdisciplinary collaboration with researchers in biology, human and animal health sciences, technology, agriculture, geology, natural resources and other fields.

For information about the application procedure for specific positions, please refer to the web address listed at the end of each position description.

Behavioral Ecology

Experimental behavioral ecologist to complement existing strengths in social behavior, foraging, and evolutionary studies. Assistant professor level. Contact: Chair, Behavioral Ecology and Search Committee, Department of Ecology, Evolution and Behavior, University of Minnesota, 100 Ecology, 1987 Upper Buford Circle, St. Paul, MN 55108. For more information, refer to <http://biosci.cbs.umn.edu/eeb/Positions.html>.

Population Biology

Biologist who is pursuing questions and issues in the ecology and/or evolution of populations. Assistant professor level. Contact: Chair, Population Biology Search Committee, Department of Ecology, Evolution, and Behavior, 100 Ecology, 1987 Upper Buford Circle, St. Paul, MN 55108. For more information, refer to <http://biosci.cbs.umn.edu/eeb/Positions.html>.

Cancer Genetics

Researcher on mechanisms related to cancer development or treatment. Emphasis on cancer genetics, cancer gene function and identification, genomics, cancer susceptibility genes, transcriptional regulation or DNA stability and repair. Collaboration with other cancer researchers encouraged. Contact: Joline Bundlie, Department of Genetics, Cell Biology, and Development, 450 Biological Sciences Center, 1445 Gortner Avenue, St. Paul, MN 55108. For more information, refer to <http://www.gcd.med.umn.edu/positions/index.html>.

Cell Biology

Two positions for cell biologists with expertise in transmembrane signaling, endocytosis and secretion, cell junctions, cell polarity, nucleoplasmic structure and function, and/or cell growth regulation as well as other areas of cell biology. Assistant or associate professor level. Contact: Joline Bundlie, Department of Genetics, Cell Biology, and Development, 450 Biological Sciences Center, 1445 Gortner Avenue, St. Paul, MN 55108. For more information, refer to <http://www.gcd.med.umn.edu/positions/index.html>.

Developmental Biology

Established researcher to fill endowed chair in developmental biology and links to human disease. Use of mammalian model systems preferred. Contact: Joline Bundlie, Department of Genetics, Cell Biology, and Development, 450 Biological Sciences Center, 1445 Gortner Avenue, St. Paul, MN 55108. For more information, refer to <http://www.gcd.med.umn.edu/positions/index.html>

Plant Developmental Biology

Two broadly trained individuals whose research focuses on mechanisms of plant development using molecular, cellular, and/or genetic methods. Assistant professor or outstanding senior scientists at the associate or full professor level. Contact: Plant Development/Genomics Search Committee, Department of Plant Biology, 220 Biological Sciences Center, 1445 Gortner Avenue, St. Paul, MN 55108. For more information, refer to <http://biosci.cbs.umn.edu/plantbio/pbio/position.htm>

Plant Genomics, Proteomics, and/or Bioinformatics

Three positions for scientists who use genomic, proteomic, and/or bioinformatics methods to study plant, fungal, or algal evolution, cell biology, physiology, molecular biology, plant-microbe interactions, biochemistry and/or genetics. Assistant professor or outstanding senior scientists at associate or full professor level. Contact: Plant Development/Genomics Search Committee, Department of Plant Biology, 220 Biological Sciences Center, 1445 Gortner Avenue, St. Paul, MN 55108. For more information, refer to <http://biosci.cbs.umn.edu/plantbio/pbio/position.htm>

Microbial Functional Genomics and Biocatalysis

Researcher with specific interests in bioinformatics, elucidating biochemical function via genomic analysis, metabolic engineering, biocatalysis for chemical synthesis, biodegradation, or evolutionary aspects of genomics. Assistant, associate, or full professor level. Contact: Professor Lawrence Wackett, search committee head, Department of Biochemistry, Molecular Biology, and Biophysics, 1479 Gortner Avenue, St. Paul, MN 55108. For more information, refer to <http://biosci.cbs.umn.edu/BMBB/mbbhire01.html>.

UNIVERSITY OF MINNESOTA

The University is committed to the policy that all persons shall have equal access to its programs, facilities and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, veteran status, or sexual orientation.

The University of Minnesota was named among the top three public research universities in a recent national study. Measures included quality of faculty and research, amount of federal and private support for research, and the amount of advanced training conducted. To view the study, go to <http://thecenter.ufl.edu>. For more information about the University of Minnesota, go to <http://www.umn.edu>.

Bioengineering Job Advertisement

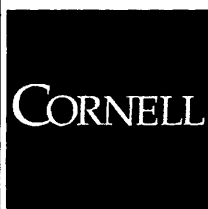
The College of Engineering at Cornell University announces three positions in the area of bioengineering/biomedical/biophysical engineering. The College invites applications for tenure-track assistant and associate professors.

The College is seeking creative and resourceful individuals with a molecular or cellular orientation in their research programs, who thrive on interdisciplinary research and teaching. Areas of interest include nanobiotechnology, biomaterials, tissue engineering, drug delivery systems, biosensors, biomimicry, imaging, computational biology, bioinformatics, and bioenvironmental processes and remediation. Candidates must have demonstrated research expertise in areas that are at the interface of engineering and the life sciences. They must also have the ability and desire to develop and teach courses within their home department as well as related biology-based courses that will form the core of an integrated, cross-college program in biomedical/bioengineering for undergraduate and graduate students.

New faculty will have the opportunity to collaborate with faculty involved in biological and biomedical engineering, and will be expected to foster interdepartmental and inter-College growth. Cornell University is committed to building programs that link the physical sciences and engineering to the life sciences. Successful candidates will be appointed in one of the following departments: Applied & Engineering Physics, Biological & Environmental Engineering, Chemical & Biomolecular Engineering, Civil & Environmental Engineering, Electrical & Computer Engineering, Materials Science & Engineering, and Mechanical & Aerospace Engineering.

Cornell University offers the advantages of an engineering college with outstanding faculty and resources, such as the NSF-funded Cornell Nanofabrication Facility; the Nanobiotechnology STC funded by NSF; the NSF/NIH Resource in Biological Opto Electronic Imaging; Cornell's High Energy Synchrotron Source; the NSF funded Cornell Center for Materials Research; the Cornell Theory Center (for advanced computation); mammalian genomics facilities; the Cornell Core Transgenesis Facility; the Cornell Hospital for Animals; Center for Advanced Technology in Biotechnology; and, to be completed by 2003, Duffield Hall, a state of the art facility for research in nanometer science and technology. The College of Engineering also has the advantages of Cornell's broad strength in the life sciences ranging from molecular/genomic to behavioral and ecosystems research in several colleges--Arts and Sciences, Human Ecology, Agriculture and Life Sciences, Veterinary Medicine, and, in New York City, the Weill Medical College as well as the Hospital for Special Surgery.

Applicants should submit a detailed C.V., including research and teaching interests, copies of selected publications, and at least three professional references to:



**Professor Ronald Hoy or
Professor Mark Saltzman
Co-Chairs, Bioengineering
Search Committee
In care of: Ms. Bonnie Sisco
Bioengineering Program
270 Olin Hall
Cornell College of Engineering
Ithaca, New York 14853**

Inquiries by e-mail may be addressed to Bioeng_search@cornell.edu, but formal applications must be submitted by regular mail. Screening of candidates will begin January 1, 2002 and continue until the positions are filled.

The College of Engineering is an equal opportunity, affirmative action employer/educator and welcomes nominations of, and applications from, women and underrepresented minorities.

<http://www.cornell.edu>
<http://chronicle.com/jobs/profiles/2377.htm>



MAYO CLINIC CANCER CENTER

The Mayo Clinic Cancer Center announces openings for faculty positions at the Assistant, Associate, and Professor level. Qualified individuals are expected to initiate and maintain an outstanding research program and to contribute to educational activities in Mayo Graduate School and Mayo Medical School. The Cancer Center is seeking to supplement existing strengths by recruiting faculty members who are interested in the following areas:

Cell Biology and Genetics, with a focus on basic cell biological and signaling mechanisms relevant to cancer initiation or progression. Individuals with interest and expertise in functional genomics using model organisms such as mouse, yeast, fly, or worm are especially encouraged to apply.

Outstanding applicants with research interests in other areas will also be given full consideration. Successful candidates will have an opportunity to interact with basic and medical scientists in areas of cell and molecular biology, structural biology, gene therapy, and medicine. Applicants should send a curriculum vitae and a statement of research interests before March 1, 2002 to:

**Ms. Kathryn Streich
Mayo Clinic
Stabile 8
200 First St. SW**

Rochester, MN 55905

E-mail: streich.kathryn@mayo.edu

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Neuroscience Open-Rank Tenure-Track Faculty Appointment

The Northwestern University Institute for Neuroscience (NUIN) and the Department of Molecular Pharmacology and Biological Chemistry (MPBC) announce a new search for a full-time faculty appointment at the Medical School, in downtown Chicago. Outstanding candidates employing innovative approaches to molecular neuroscience and signal transduction are encouraged to apply. A recently renovated, large laboratory adjacent to many other neuroscience labs is available. The appointee will have access to shared facilities for tissue culture, cell imaging, transgenic and knockout projects, monoclonal antibodies, gene micro-arrays, structural biology (especially x-ray crystallography), and biotechnology. The Ph.D. or M.D. appointee is expected to establish an independently funded research program and participate in graduate and medical school teaching.

This recruitment is part of a growing commitment to neuroscience at Northwestern University. Additional information about NUIN and the participating departments can be found on our Web pages (www.northwestern.edu/nuin and www.nums.nwu.edu). Applicants must include the following materials: (1) current C.V. and list of publications, (2) brief statement of research interests (three pages or less), and (3) three letters of reference sent on their behalf to: **Prof. Richard Miller, Ph.D., (r-miller10@northwestern.edu)** Chair, NUIN Search Committee, Searle 5-577, 320 E. Superior Street, Chicago IL 60611-3010.

Completed applications must be received by January 31, 2002. Appointment will commence on or after July 1, 2002.

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

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More Than Just Another Opportunity.

Now is the perfect time to join our team in Ann Arbor. Our tremendous growth means we have a wealth of new openings for scientists who will literally help mold our future. You'll find exceptional opportunities to work on some of the most advanced science in the world with teams that will challenge you to match their ability to think creatively, take risks, and deliver.

You'll also enjoy the friendly yet sophisticated city of Ann Arbor, home to premier educational and medical institutions, celebrated museums, beautiful parks, fine restaurants and year-round recreational activities.

Apply Today

Visit our Virtual Job Fair at www.PfizerPharmJobs.com to apply today for one of our exceptional opportunities at all levels in Pharmaceutical R&D, including Analytical R&D, Regulatory CMC, Quality Assurance, and Global Pharmacy Operations.

An equal opportunity employer, Pfizer offers a workplace rich with diversity and potential.

www.pfizer.com



TUFTS UNIVERSITY

Dean, Sackler School Of Graduate Biomedical Sciences

Tufts University is seeking outstanding candidates for the position of Dean of the Sackler School of Graduate Biomedical Sciences, situated at the Boston Health Sciences Campus of Tufts University. Founded in 1852, Tufts University is recognized as a premier university with a global reputation for academic excellence. Established 21 years ago, the Sackler School has the mission of educating future leaders in biomedical research and teaching, stressing interdisciplinary approaches that integrate basic and clinical sciences.

The Sackler School is comprised of eight programs of graduate education in basic sciences leading to the Ph.D. degree and a Division of Clinical Research, which has both M.S.- and Ph.D.-granting programs. The basic science programs in Biochemistry; Cell, Molecular and Developmental Biology; Cellular and Molecular Physiology; Genetics; Immunology; Molecular Microbiology; Neuroscience; and Pharmacology and Experimental Therapeutics are each designed to provide the strong didactic base and research experience needed for successful careers in biomedical science. The programs in Clinical Research are intended for individuals already trained in the medical sciences. Currently, 200-plus Ph.D. candidates are enrolled in the Sackler School. A participating faculty of 141 are drawn largely from the faculty of Tufts University School of Medicine (TUSM).

The Sackler Dean will play a multifaceted role in the Health Sciences Campus. S/he will provide academic and administrative oversight of Sackler training programs and exercise leadership in shaping their future. In particular, Tufts anticipates an expansion in the size of the Sackler School to parallel a major increase in the number of faculty of the School of Medicine. The Dean will be expected to spearhead the growth of the Sackler School by playing a leading role in fund-raising as well as faculty and student recruitment.

Further, s/he will serve as the Executive Dean for Research of the School of Medicine in which capacity s/he will have major oversight and administrative responsibilities for research at TUSM. These responsibilities include the fostering of multidisciplinary research initiatives, formulating strategic goals for research at TUSM, and facilitating relationships with other research entities within the Boston Health Sciences Campus (Schools of Nutrition and of Dental Medicine) and the University at large (Schools of Arts and Sciences and of Veterinary Medicine).

Staff, resources, and salary are commensurate with the responsibilities of the position. Candidates who seek to maintain an active research program are encouraged to apply.

Qualifications: Tufts seeks to appoint a Dean recognized as an academic leader with a distinguished record of research and educational accomplishment. Thus, the successful candidate will have an earned doctorate, a record of substantial accomplishment in biomedical research and graduate education congruent with senior academic rank, a background in administration and leadership, demonstrated skills in managing people and resources, and a commitment to enhancing diversity and equal opportunity in graduate education.

Application Procedures: Review of applications will begin immediately and will continue until the position is filled. Interested parties should send a letter of application addressing the qualifications for the position, curriculum vitae and the names/addresses/phone numbers/e-mail addresses of five professional references to: **James E. Schwob, M.D., Ph.D., Chair, Sackler Dean Search Committee, Office of the Dean, Tufts University School of Medicine, 136 Harrison Avenue, Boston, MA 02111.**

Tufts University is an Equal Opportunity, Affirmative Action Employer.

POSTDOCTORAL RESEARCH STAFF MEMBER

Lawrence Livermore National Laboratory has postdoctoral positions available for physicists, engineers, and chemical engineers for participation in a variety of technical research programs in support of national security. Become a member of a team conducting analyses, calculations, and experiments in one of several project areas. Current research areas include photonics, communications and sensor technologies, spectroscopy, nuclear physics, astrophysical sciences and mathematics. Program interests include the detection and interdiction of proliferators of weapons of mass destruction, high-resolution combat simulations, systems analyses of various Department of Defense technologies, missile lethality and vulnerability studies, weapon effects simulations, and experiments.

These positions require a recent Ph.D. in physical sciences or engineering with exceptional ability and knowledge in one of the above research areas. You must also have demonstrated ability to work both as a member of a team and independently with excellent written and verbal communication skills.

LLNL offers a challenging environment and competitive salary/benefits package. To be considered, reference source# **AJSCBG1NA**, and e-mail resume and cover letter to: **naigdivsc@llnl.gov**. LLNL is operated by the University of California for the National Nuclear Security Administration/Department of Energy. We are proud to be an equal opportunity employer with a commitment to workforce diversity.



Think BIG

For information about other employment opportunities, visit our website:

www.llnl.gov/jobs

POSTDOCTORAL POSITIONS IN FUNCTIONAL GENOMICS AND NEURODEGENERATIVE DISEASES

Genetics of Prion Disease Susceptibility. The goal of this program is to identify genes (in addition to the prion protein gene) that modify susceptibility to prion infection or that are involved in prion replication. Interactions with co-investigators at larger research centers in Seattle (L.E. Hood) and San Francisco (S.B. Prusiner) enhance the training environment. Successful applicants will have a solid background in molecular biology.

Application of Mouse Genetics to Alzheimer's Disease. Genetic approaches using transgenic mice overexpressing Alzheimer's disease-associated genes are aimed at dissecting pathogenic mechanisms and developing better disease models. Outstanding expertise in behavior and molecular genetics (K. Hsiao Ashe), biochemistry (S.G. Younkin), pathology (B. Hyman), electrophysiology (P. Chapman), and vascular physiology (C. Iadecola) is provided by our collaborators. Expertise of the successful applicant may be in cell biology, neuroscience, or molecular biology.

Functional Genomics/Mutagenesis. Sensitized screens will target mutations affecting hearing, ear development, or neurodegeneration. The successful applicant will be involved in all aspects of an ENU-mutagenesis program, and, as the program develops, will choose an area of focus for independent research with one or more of the Institute's investigators (J.R. Bermingham, Jr., G.A. Carlson, J.A. Mercer, P.X. Xu and X. Xu; see www.montana.edu/wwwmri). Expertise of applicants should include previous experience in mouse biology or genetics.

McLaughlin Research Institute is a small non-profit research organization near the east slopes of the Rocky Mountains and provides an outstanding environment to train for a career in mammalian genetics. Applicants for these positions should provide evidence, including publication in internationally recognized journals, for their potential for an independent research career. To apply, send your curriculum vitae, a statement of research interests, and the names of three individuals we may contact for references to: **George A. Carlson, Ph.D., McLaughlin Research Institute, 1520 23rd Street South, Great Falls, MT 59405. gac@po.mri.montana.edu**



مجلس البحوث البيئية والحياة الطبيعية والتنمية
Environmental Research and Wildlife Development Agency

Environmental Research and Wildlife Development Agency

Senior Wildlife Ecologist

Basic function:

- Carry out focused research on wildlife ecology specializing in mammalian system.
- Design and implement quantitative goals oriented experimental research.
- Conduct quantitative surveys, perform appropriate statistical analyses and present results to local and international audiences.

Experience and skills required:

- BSc in relevant field + 12 years experience after degree. (PhD of MSc + experience preferred)
- Fluency in English including demonstrated ability to write for peer-reviewed science journals and must be computer literate.

Plant Ecologist

Basic function:

- Carry out focused research on plant ecology, including physiologic ecology, to understand the structure, function and health of the Emirate: ecosystems.
- Design and implement quantitative experimental research.
- Conduct quantitative survey, perform appropriate statistical analyses and present valid results to local and international audiences.

Experience and skills required:

- BSc in relevant field + 7 years experience after degree. (PhD or MSc + experience preferred)
- Fluency in English including demonstrated ability to write for peer-reviewed science journals and must be computer literate.

Water Resources Manager

Basic function:

- Establish and implement a comprehensive water resources management strategy.
- Design and conduct scientific research and monitoring on various water resources issues.
- Perform statistical analyses and present valid results to local and international audiences.

Experience and skills required:

- BSc in relevant field + 12 years experience after degree. (PhD or MSc + experience preferred)
- Fluency in English including demonstrated ability to write for peer-reviewed science journals and must be computer literate

To apply send application to:

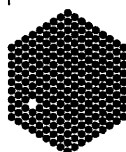
PO Box 45553 Abu Dhabi

United Arab Emirates

Tel: +9712-6817171

Fax: +9712-5810008

E-mail: erwca@emirates.net.ae



EMBL

The European Bioinformatics
Institute (EBI)

Hinxton, nr. Cambridge, UK

The European Molecular Biology Laboratory (EMBL), an international research organisation with its Headquarters Laboratory in Heidelberg (Germany), Outstations situated in Grenoble (France), Hamburg (Germany) and Hinxton (UK), and a Research Programme at Monterotondo (Italy) has the following vacancies at the **European Bioinformatics Institute (EBI) in Hinxton, UK:**

GROUP LEADERS IN BIOINFORMATICS AT EBI

The European Bioinformatics Institute wishes to recruit outstanding young research group leaders in Bioinformatics. Currently we have expertise in computational analysis of genomes, protein sequence and structure and functional classification. Recent funding increases allow us to strengthen and complement our research focus by establishing new groups in one or more of the following areas:

- Analysis of molecular complexes, pathways and networks
- The evolution of sequence, structure and function to relate genotype to phenotype
- Chemo-informatics in relation to biology
- Deciphering transcriptome/proteome data to understand biological processes
- The molecular basis of disease
- Algorithm development for biology

The EBI provides a world-class research environment and is committed to fostering top quality interdisciplinary research in a highly collaborative international culture.

As the European Centre for the international archiving for DNA and protein sequence data, genome data, protein structure data, GO, and expression data, the opportunities for better data integration, analysis and understanding are enormous.

Informal enquiries are welcomed and can be made to the Director, Professor J. Thornton (thornton@ebi.ac.uk)

Commencing date: Spring 2002

Closing date for applications: 15 December 2001

WWW pages: <http://www.embl-heidelberg.de/>
and <http://www.ebi.ac.uk/>

EMBL is an inclusive, equal opportunity employer offering attractive conditions and benefits appropriate to an international organisation.

Applicants should submit a curriculum vitae, quoting ref. no. 01/160, with a concise description of research interests and future plans, and should arrange for three letters of recommendation to be sent to:

**The Personnel Section, EMBL, Postfach 10.2209, D-69012 Heidelberg, Germany. Fax: +49 6221 387555;
email: jobs@embl-heidelberg.de**



WEILL CORNELL MEDICAL COLLEGE IN QATAR

Weill Cornell Medical College of Cornell University is opening a medical school branch in Doha, Qatar. The six-year program leading to the award of a Cornell medical doctor degree is comprised of a two year, non-degree awarding pre-medical curriculum taught by faculty from the basic science departments of Cornell University, and a four-year medical curriculum taught by faculty from Weill Cornell Medical College in New York. The first class for the pre-medical program will be enrolled for the academic year beginning in September 2002 and applicants are sought for a variety of faculty and administrative positions.

This pioneering initiative promises to be a challenging and rewarding opportunity for those who are qualified to meet Cornell standards and secure faculty appointments at Cornell University or Weill Cornell Medical College. Applicants for the first year pre-medical program are sought for the following positions:

- **CHEMISTRY: Assistant, Associate, or Full Professor; Lecturer (Laboratory Instructor)**
- **BIOLOGY: Lecturer (Laboratory Instructor)**
- **MATHEMATICS: Assistant, Associate, or Full Professor**

Qualifications for these positions include a Ph. D. or equivalent degree in the specific discipline with experience in either conducting an introductory laboratory course or teaching at the introductory level. These are non-tenured positions and the candidate must qualify for appointment in the respective departments of Cornell University.

- **Assistant Dean for Admissions and Student Affairs**

The overall responsibilities of this position include a) the recruitment, evaluation, selection and acceptance of applicants to the premedical and medical programs, and b) development of student programs including counseling, advising and support. The successful candidate should hold a Ph. D. or M.D. degree and have relevant accomplishments and interest in pre-medical and/or medical education, preferably with specific experience in admissions and student affairs.

Applications with a curriculum vitae and the names of three references are due by the end of business day November 30, 2001 and should be addressed to:

Office of the Dean, Weill Cornell Medical College in Qatar
425 E. 61st St., Suite 321, New York, NY 10021 USA Fax: (212) 821-0910
We are an equal opportunity employer.

Further information about the program can be obtained at our website:
www.med.cornell.edu/qatar or from the above address.

UTAH STATE UNIVERSITY DEAN - COLLEGE OF SCIENCE

Utah State University seeks a successful scholar to provide leadership and administration to a dynamic faculty in biology, chemistry/biochemistry, computer science, geology, mathematics/statistics, and physics. A full position description is available at: <http://personnel.usu.edu/W1-104-01.htm> Send letter of application, resume and contact information for five references to: Dr. Noelle E. Cockett, Vice Provost for Academic Affairs, Utah State University, 1435 Old Main Hill, Logan, UT 84322-1435, Ph: (435)797-0979, Email: fanoelle@cc.usu.edu.

Review begins January 3, 2001; open until filled.

AA/EOE.

Utah State
UNIVERSITY

CLEMSON
UNIVERSITY

Associate Dean of Engineering and Science For Research and Graduate Studies

The College of Engineering and Science at Clemson University invites nominations and applications for the position of Associate Dean for Research and Graduate Studies. The Associate Dean is primarily responsible for overseeing and providing leadership for the College's graduate studies and research programs. Clemson is the South Carolina land-grant university with a total on-campus enrollment of 17,000 students; the College has 951 graduate students enrolled in 21 Master's and 16 Ph.D. programs. The College offers advanced degrees in 22 disciplines of engineering and science. A complete list is found at the website given below.

The College is aggressively expanding its role as a major graduate education and research unit. Research awards in 2000-2001 exceeded \$48 million. The Associate Dean will oversee, lead, and influence standards for graduate studies and research. Major duties include: facilitating research funding for faculty, developing college research infrastructure, coordinating multidisciplinary proposal submissions, allocating research space and other resources, coordinating departmental graduate programs, overseeing the College's 14 research centers, and other duties as assigned by the Dean.

Candidates must have an earned doctorate in the sciences, engineering, or a related discipline and a record of scholarship and research sufficient to qualify for a tenured professor position in one of the College's departments. Review of applications will begin December 10, 2001 and continue until the position is filled. Campus interviews will commence after January 15, 2002. It is anticipated that the successful candidate will join Clemson University in August 2002. The College has a strong commitment to the principle of diversity, and in that spirit seeks a broad spectrum of candidates including women, minorities, and people with disabilities.

Those interested in applying for the position should send a letter of intent, a complete vita, and a list of at least five references to: **Dr. Donald E. Beasley, Chair, Associate Dean Search Committee, 109 Riggs Hall, Clemson University, Clemson, SC 29634-0901. Phone (864) 656-5622. Fax (864) 656-0859. E-mail: don.beasley@ces.clemson.edu.** Nominations are also encouraged. More information about this position and Clemson's College of Engineering and Science is given at www.ces.clemson.edu.

Clemson University is an Affirmative Action, Equal Opportunity Employer.

POLYMERASE BIOCHEMIST

A post-doctoral position is available immediately for an experienced individual to work on an exciting project involving the HIV reverse transcriptase. The project involves creating, via in vitro evolution combined with functional screening, novel RTs that are capable of synthesizing long cDNAs for use in genomics.

Candidates having experience in the areas of nucleic acid biochemistry, protein chemistry and DNA/RNA Polymerase Biology should send their curriculum vitae and names of three references to: **Dr. Vinayaka Prasad, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Ave, Bronx, NY 10461; Email: prasad@aecom.yu.edu** EOE



ALBERT EINSTEIN
COLLEGE OF MEDICINE
Advancing science, building careers



Physical and Engineering Sciences/ Life Sciences Interface

at Cornell University

Cornell has undertaken a broad-based initiative to recruit faculty and provide resources that foster the multidisciplinary study of biology in the post-genomics era. Developments in the physical, chemical, and engineering sciences will be essential for addressing a variety of complex questions in biology and also for engineering novel systems based on biological principles. At Cornell we aim to attract exceptionally talented individuals for a series of tenure-track faculty positions to pursue important research areas in the life sciences using quantitative, multidisciplinary approaches. Key areas of interest include but are not limited to:

1) The study of molecular events, interactions, and dynamics in living cells by advanced and newly developed physical and chemical tools. Examples include the use of state-of-the-art imaging techniques combined with genetic engineering to monitor the dynamics of molecular and genetic networks; the application of spectroscopic and fluorescence methods to monitor protein folding or protein-protein interactions; and the application of chemical synthesis to control or monitor macromolecular reactivity and interactions.

2) New approaches to probing molecular structure and properties. Examples include the study and manipulation of single molecules using laser tweezers, atomic force microscopy, or electron microscopy; innovative uses of synchrotron radiation to probe structure and dynamics; and the application of protein design to understanding macromolecular interactions.

3) The generation of advanced materials and systems integrating, mimicking, or expressing biological functionality. Examples include the development, study, and use of new technologies in the areas of microfluidics, polymers, and biomaterials; the design of novel catalysts; and the establishment of new ways to redirect cellular activities by altering enzymatic or transport functions in plants and animals.

4) The development of new computational models and algorithms to better understand biological complexity and to complement and enhance experimental observation. Examples include understanding the nonlinear dynamics of gene expression and signal transduction; systemwide analyses of transcription and translation; and the use of bioinformatics or statistical mechanics to advance mathematical biology, genomic analysis, and structural biology.

Appointees are expected to participate actively in the university-wide Cornell Genomics Initiative. Potential home departments will be determined during the interview process according to the background and interests of the candidates but may include departments in the physical, engineering, or biological sciences. Applicants should send a curriculum vitae, a statement of research interests, and the names of at least three references to: Physical and Engineering Search Committee, Cornell University, 240 Emerson Hall, Ithaca, NY 14853-1901.

For more information see www.genomics.cornell.edu.

Genomics CORNELL
INITIATIVE

Friedrich Miescher Institute For Biomedical Research



Group Leader Position in Epigenetics

Applications are invited for candidates studying DNA methylation, chromatin modification, gene imprinting, gene silencing/RNAi and other epigenetics events in the context of development, differentiation and disease. Candidates combining genetic and biochemical approaches are particularly welcome. The appointed Group Leader will complement ongoing research in the Institute in the fields of epigenetics, gene expression, growth control and neurobiology.

The Friedrich Miescher Institute for Biomedical Research (FMI), which is funded by the Novartis Research Foundation, is an international centre with 280 members, including 180 postdoctoral fellows and graduate students, committed to basic research in cell and molecular biology (see www.fmi.ch). It is situated in Basel, a city offering an outstanding scientific and cultural environment in the centre of Europe. The FMI provides state-of-the-art core facilities, transgenic mouse facilities, and genomics/proteomics services, and offers competitive financial support, including running costs and positions.

Applicants should submit a CV, a concise description of research interest and future plans, by January 15, 2002. The names of three scientists familiar with the achievements of the applicant should be included. Please send these documents to Witold Filipowicz (Friedrich Miescher Institute, Maulbeerstrasse 66, 4058 Basel, Switzerland), who can also be contacted for additional information (+41 61 6976993 or e-mail: filipowicz@fmi.ch).



POSTDOCTORAL POSITIONS Genome Technology Branch National Human Genome Research Institute National Institutes of Health

2 Postdoctoral research positions are available immediately for individuals interested in vertebrate genetics and genome analysis at the National Human Genome Research Institute (NHGRI).

1) Identification and Characterization of genes associated with ear development in zebrafish and their relationship to human diseases. This position will study isolated mutations which affect early ear development in the zebrafish embryo. Techniques will include mutation analysis, genomics, transplantation, physiology, genetics, and cell biology.

2) Establishing technologies for using microarrays as a tool to study vertebrate development. This position will aid in producing cDNA micorarrays for zebrafish and develop the use of microarrays to study vertebrate development, particularly blood and/or hearing on a genome-wide basis.

The National Human Genome Research Institute at the National Institutes of Health in Bethesda provides an exciting scientific environment in one of the largest biomedical research facilities in the world.

Candidates should possess an MD and/or PhD and have less than five years of postdoctoral experience. Please send a letter, CV, and three letters of reference to: Dr. Shawn Burgess c/o Ms. Dana Jordan, NHGRI/NIH, 50 South Dr., Bldg. 50, Rm. 5423, Bethesda, MD 20892-8004 (or gtbapply@nhgri.nih.gov).

The NIH is an Equal Opportunity Employer and applications by women and minorities are strongly encouraged.

POSITIONS OPEN

ASSISTANT OR JUNIOR ASSOCIATE PROFESSOR POSITION Human Cognitive Neuroscience or Human Cognitive Science Department of Psychology McGill University

The Department of Psychology of McGill University seeks applicants for a tenure-track position at the **ASSISTANT** or junior **ASSOCIATE PROFESSOR** level in human cognitive neuroscience or human cognitive science. The deadline for receipt of completed applications is January 1, 2002, with an anticipated starting date of September 1, 2002. Applicants with interests in any area of human cognitive neuroscience or human cognitive science will be considered. The Department has excellent facilities for interdisciplinary research through its links with related academic departments at McGill and other universities in Montreal, research units in the McGill University Health Centre including the Montreal Neurological Institute, and McGill Cognitive Science. Applicants at the Assistant Professor level should present early evidence of the ability to establish a record of significant, externally funded research productivity and applicants at the Associate Professor level should have such a record. All applicants are expected to have an aptitude for undergraduate and graduate teaching. Applicants should arrange for three confidential letters of recommendation to be sent to the address below. Curriculum vitae; description of current and proposed areas of research; selected reprints of published or in-press research articles; a description of areas of teaching competency, interest, and approach; and other relevant material should also be sent to:

Chair, Human Cognitive Neuroscience/
Human Cognitive Science Search Committee
Department of Psychology
McGill University
1205 Dr. Penfield Avenue
Montreal, Quebec H3A 1B1 Canada

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. McGill University is committed to Equity in Employment.

The Department of Cell Biology and Physiology at the University of Pittsburgh School of Medicine invites applications for a tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Applicants with the Ph.D. and/or M.D. degree and postdoctoral experience with a strong, independent research program in cell or developmental biology are preferred. Current departmental strengths include regulation of membrane traffic, cell polarity and gene expression, signal transduction, and cellular imaging. Information on the Department and its graduate programs can be found at websites: <http://www.cb.pitt.edu> and <http://www.dean-med.pitt.edu/BIOMED/cbmp.html>. Send curriculum vitae, summary of research plans, and contact information for three references to: **Raymond A. Frizzell, Ph.D., Department of Cell Biology and Physiology, University of Pittsburgh School of Medicine, S368 Biomedical Science Tower, 3500 Terrace Street, Pittsburgh, PA 15261.** *The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.*

CELL AND MOLECULAR BIOLOGY PROGRAM COORDINATOR and faculty at either **ASSISTANT/ASSOCIATE** level. Seeking Ph.D. in cell and molecular biology or related field to teach in undergraduate degree program in cell and molecular biology. This interdisciplinary baccalaureate program is sponsored and supported by the Departments of Biology, Chemistry, Biomedical and Health Sciences, and Physics. A Master's program in cell and molecular biology is scheduled for development within the next two years. Experience in and a strong commitment to curriculum development, teaching, and creating undergraduate and graduate research opportunities is required. Apply to: **P. Douglas Kindschi, Dean of Science and Mathematics; e-mail: kindschd@gvsu.edu.** Initial review of applicants will begin on December 3, 2001, and applications will be accepted until the position is filled.

POSITIONS OPEN

Colgate University's Department of Physics and Astronomy invites applications for an interdisciplinary, tenure-track position in the field of biophysics at the **ASSISTANT PROFESSOR** rank to begin in the fall of 2002. A Ph.D. in biophysics or related area with biophysics experience is required. We are looking for a person with a strong commitment to undergraduate education who can establish a program of on-campus research in which undergraduate students can actively participate. Preference will be given to candidates who are willing and able to initiate and foster interdisciplinary collaborations between physics and biology, biochemistry, or neuroscience. Teaching responsibilities will include courses in physics, biophysics, and Colgate's liberal arts core curriculum. Additional teaching responsibilities may include courses in biology, biochemistry, or neuroscience depending on the candidate's expertise. Colgate University has excellent teaching facilities and well-equipped research laboratories in the areas of physics, biology, biochemistry, and neuroscience. Colgate University is a highly selective liberal arts college of 2,700 students, situated in a picturesque village in central New York state. Salary is competitive. Generous start-up funds for research are available.

Applicants should arrange for three letters of recommendation to be sent to the Department of Physics and Astronomy. Candidates should send a letter describing their teaching and research objectives; curriculum vitae that includes a list of publications; plus the names, addresses (postal and e-mail), and telephone numbers of the three references. At least one person providing a recommendation should be able to address the candidate's teaching qualifications, and at least one should be very familiar with the candidate's research experience and potential for supervising students in undergraduate research. Inquiries may be made by e-mail but formal application must be made in writing via surface mail. Review of applications will begin on January 15, 2002. Contact: **Enrique J. Galvez, Chairman, Search Committee, Department of Physics and Astronomy, Colgate University, 13 Oak Drive, Hamilton NY 13346. Telephone: 315-228-7723; e-mail: egalvez@mail.colgate.edu.** *Colgate is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are especially encouraged to apply.*

GEOLOGIST/HYDROGEOLOGIST Department of Biology Southwest Texas State University

Southwest Texas State University is inviting applications from outstanding candidates for a tenure-track faculty appointment in geology/hydrogeology at the **ASSISTANT PROFESSOR** level. The successful applicant must have a Doctoral degree or equivalent at the time of appointment and will teach undergraduate courses in physical and historical geology and/or mineralogy. He/she also will be expected to provide expertise in groundwater hydrology, geochemistry, and related water resources topics within the context of an anticipated multidisciplinary Doctoral program in aquatic resources. The successful applicant will develop research activities compatible with the goals of the innovative Aquatic Resources program, ideally directed to the scientific and/or policy aspects of sustainable groundwater resources and the conjunctive use of subsurface and surface waters. Knowledge of karst hydrogeology is considered an asset. Applicants should send curriculum vitae, representative publications, statement of teaching and research interests, copies of academic transcripts, and the names and addresses of three professional references to: **Dr. Francis Rose, Chairman, Department of Biology, Southwest Texas State University, 601 University Drive, San Marcos, TX 78666. E-mail: fr02@swt.edu.** More can be learned about the Department at website: <http://www.bio.swt.edu>. Review of applications begins on 15 January 2002 and continues until a suitable candidate is found. The University reserves the right not to proceed with an appointment for financial or programmatic reasons. *SWT is a member institution of the Texas State University System and is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

DIVISION OF BIOLOGY University of California, San Diego

The Division of Biology at University of California, San Diego, has a large faculty spanning many areas of biological science and one of the largest and most diverse graduate programs in the country. We invite applications for a faculty position in the new Neurobiology Section.

We plan to make appointments in several of the many areas of neurobiology including systems and integrative, computational, and behavioral neurobiology and genetic, molecular, cellular, and developmental neurobiology. We are searching at the senior level for a distinguished **PROFESSOR** of neuroscience who will occupy the Stephen W. Kuffler Endowed Chair. Candidates will have a well-developed research program supported by extramural funds. All candidates must have Ph.D. or equivalent degree and a commitment to teaching at the undergraduate and graduate levels. The level of appointment will be commensurate with qualifications and experience with salary based on University of California pay scale.

Applications received by January 1, 2002, will be assured of consideration. Send curriculum vitae; complete list of publications; brief description of research interests and professional goals; and the names of at least three references with addresses, e-mails, telephone, and FAX numbers to: **Neurobiology Search Committee, Division of Biology 0346, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0346.** *UCSD is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to the achievement of diversity among its faculty and staff.*

PROTEOMICS/GENOMICS

Mississippi State University's Chemical and Life Sciences Departments invite highly qualified applicants in the areas of proteomics and genomics for a tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** position. The successful candidate is expected to develop and sustain an internationally recognized and extramurally funded research program and to exhibit excellence in undergraduate and graduate teaching. The appointee will participate in MSU's new initiatives in proteomics, genomics, and computational biology. As part of an initiative to establish a Phi Beta Kappa chapter, the appointee must have Phi Beta Kappa membership (active or inactive membership). A Ph.D. degree or equivalent in chemistry or biology with expertise in the areas of proteomics and/or genomics is required and postdoctoral experience is desirable. Send curriculum vitae, statements of research and teaching interests, and names of three references to: **Dr. H. Alan Wood, Search Committee Chair, Life Sciences and Biotechnology Institute, P.O. Box 6040, Mississippi State University, Mississippi State, MS 39762.** Applications will be accepted until January 1, 2002, or until the position is filled. *MSU is an Equal Opportunity Employer and encourages applications from women and members of minority groups.*

ASSISTANT/ASSOCIATE PROFESSOR POSITION

Marine or Aquatic Inorganic Geochemistry

Applicants are sought for a tenure-track faculty position in the School of Marine Science, Virginia Institute of Marine Science (VIMS), College of William and Mary. Review will begin in early January 2002 and the position will be filled between June 2002 and January 2003. Applicants should have research and teaching interests in the quantitative understanding of inorganic geochemical processes in marine systems. Send curriculum vitae, statement of research and teaching interests, and full contact information for five references to: **Geochemist Search Committee, Department of Physical Sciences, School of Marine Science, VIMS, P.O. Box 1346, Gloucester Point, VA 23062-1346.** Further details and instructions can be accessed at website: <http://www.vims.edu> under Job Openings. *The College is an Equal Employment Opportunity/Affirmative Action Employer.*



UNIVERSITY AT
Albany
STATE UNIVERSITY OF NEW YORK

**Faculty Positions in
Cancer Biology
Center for Comparative Functional Genomics**

The Center for Comparative Functional Genomics, in conjunction with the University's Department of Biological Sciences, invites applications at the Assistant Professor level for individuals working in the broad area of cancer biology. At least two positions are available this year with several more anticipated in the near future. Preference will be given to candidates using state-of-the-art molecular genetic technology to analyze human or mouse models of cancer/metastases. Experience with microarray technology and at least two years of postdoctoral research experience are also preferred.

Appointments will be tenure-track at the Assistant Professor level and will include appointment to both the Center and Department of Biological Sciences. The successful candidates will be expected to maintain vigorous, extramurally funded research programs and have a strong commitment to excellence in teaching. Start up packages and salaries are highly competitive and the Center maintains state-of-the-art facilities and technical support in genomics, bioinformatics, proteomics microarray, mouse transgenesis, cell culture, fluorescence activated cell sorting, confocal and electron microscopy and imaging. Additionally, a new 180,000 square foot Life Sciences research building is currently under construction to house the Center and its members.

Review of applications will commence immediately and continue until positions are filled. Interested individuals should submit, via both e-mail and regular post, a curriculum vita and statement of research interests/expertise and have at least three letters of reference sent to:

Michele Anderson
Assistant to the Director, Center for Comparative Functional Genomics
University at Albany
A202, One University Place
Rensselaer, NY 12144-3456
(518) 591-8300 E-mail: genomics@albany.edu

The University at Albany is an AA/EQ/IRCA/ADA employer.



Universität Heidelberg

The Faculty of Chemistry invites applications for a

**Full Professorship (C4)
in Inorganic Chemistry**

The position is vacant by April 1st 2003.

The successful candidate should perform modern first-class research and contribute to the teaching of Inorganic Chemistry in all programs offered. Collaboration with research groups at the university is expected.

Section 1, Paragraph 67 of the Universitätengesetz (University law) requires that a candidate without a previous appointment a university professor in the German university system be initially employed on a non-tenured basis. The appointee is not required to reapply for the position if his/her contract is to be extended beyond the initial term. Exceptions to these regulations may be granted if candidates from abroad or from outside the university system refuse to accept an appointment under these conditions.

The faculty intends to increase the number of women in teaching and research; women are therefore explicitly invited to apply.

Please send c. v. incl. professional history, list of publications, teaching experience, documentation of academic degrees, a summary of current and future research and 5 relevant reprints until January 31, 2002, to: Dekanat der Fakultät für Chemie, Im Neuenheimer Feld 234, D-69120 Heidelberg, Germany.



BRINGING BIOTECH TO PEOPLE:

**EXCITING OPPORTUNITIES AT THE
SERONO REPRODUCTIVE BIOLOGY INSTITUTE**

The Sero Reproductive Biology Institute is located near Boston, MA, and is focused on basic and drug discovery research into reproductive health, endocrinology and related cancers. At this state-of-the-art facility we currently have the following exciting career opportunities:

**SIGNAL TRANSDUCTION IN CANCER
AND GERM CELL BIOLOGY**

The successful candidate will work within a new project to identify the mechanistic role of existing and novel proteins within PI3' kinase/p70S6K signaling pathways critical for oncogenesis as well as germ cell survival, proliferation and differentiation. Use of new mouse genetic models of cancer and spermatogonial development will form a key underpinning technology for these studies. Preference will be given to candidates with a broad background in the molecular, biochemical and cell biological techniques essential to the study of gene function in selected signal transduction pathways. The successful applicant will hold a Ph.D. and/or an M.D. and have good communicative and collaborative skills.

**MOUSE MODELS OF GERM CELL
DEVELOPMENT AND CANCER**

This position is to work within a new project focusing on the role of PI3, kinase/p70S6K signaling pathways in oncogenesis as well as in germ cell development and spermatogenesis. The successful candidate will have extensive experience in the generation, use and phenotypic analysis of transgenic and/or gene-targeted mouse models. He/she will also help in identifying relevant new animal models for novel components within PI3, kinase/p70S6K pathways. A strong background in signal transduction is desirable. The successful applicant will hold a Ph.D. and/or an M.D., and have good communicative and collaborative skills.

For work related to the above positions, see: Blume-Jensen, P et al: The kit receptor promotes cell survival via activation of PI 3-kinase and subsequent Akt-mediated phosphorylation of Bad on Ser136. *Curr. Biol.* (1998) 8:779-782; Blume-Jensen, P. et al: Kit/stem cell factor receptor-induced activation of phosphatidylinositol 3'-kinase is essential for male fertility. *Nat. Genet.* (2000) 24:157-162; Blume-Jensen, P. & Hunter, T. Oncogenic kinase signaling. *Nature* (2001) 411: 355-365

If your profile and experience correspond to the above requirements, please submit your resume through our website: www.seronousa.com or send your resume by fax: (781) 681-2980.

Serono is the world's third largest biotechnology, has six recombinant products established in the worldwide marketplace, and thirteen molecules in development. Such a pipeline supports sales in excess of \$1.2 billion in 2000, and an annual R&D investment exceeding \$300 million for 2001. Serono is an Equal Opportunity Employer.

www.seronousa.com

POSITIONS OPEN

FACULTY POSITION APPLIED SCIENCE DEPARTMENT

The Applied Science Department of the College of William and Mary invites applicants for a tenure-track position at the **ASSISTANT PROFESSOR** level in biomedical engineering, biomaterials, and/or a related field emphasizing either computational or experimental tools. An offer at the Associate level may be made for exceptionally strong qualifications. The new faculty member will be asked to contribute significantly to leadership in the effort of the Department and the College to strengthen life sciences activities. Further, he or she will be strongly encouraged to form collaborations with other William and Mary members and with external institutions as appropriate. Excellence and high commitment in the teaching of undergraduate and graduate students is expected of all faculty at the College. Candidates at the Associate level must show an established, successful research program; excellence in teaching; effectiveness in forming collaborations; and evidence of national or international prominence in the field. The Applied Science Department occupies facilities on William and Mary's main campus in Williamsburg, Virginia, and at the Applied Research Center at Jefferson Laboratory in nearby Newport News, Virginia. Candidates should submit complete curriculum vitae, copies of no more than five refereed publications in the above areas, and have at least three letters of recommendation submitted on their behalf to: **New Faculty Search, Department of Applied Science, The College of William and Mary, P.O. Box 8795, Williamsburg, VA 23187-8795.** Review of materials is expected to begin about January 1, 2002, and continue until the position is filled. *The College is an Equal Employment Opportunity/Affirmative Action Employer.*

ASSOCIATE PROFESSOR/PROFESSOR TWO POSITIONS (21UC0713 and 21UC0714)

The recently established Center for Lipid and Arteriosclerosis Studies at the Genomic Research Institute of the University of Cincinnati is rapidly expanding. Applications are invited from established Investigators to join the research Center at the level of Associate Professor or above. We are interested in recruiting additional faculty members that will complement the existing strengths of the Center in at least one of the three focus areas including vascular biology, lipid metabolism, and transport and development. Outstanding Investigators from all fields related to our focus areas will be given serious consideration. Individuals with expertise in cell signaling mechanisms, intracellular trafficking, gene expression, and genetics are especially encouraged to apply. Information about the research Center, current faculty research interests, and the university can be found at **website: <http://lipids.uc.edu>.**

We offer a competitive salary and benefit package with attractive start-up funding, newly renovated laboratory facilities, and a supportive and highly interactive research environment. Interested applicants with a documented history of research productivity and success in securing extramural research support should send curriculum vitae and an outline of research interests to: **Dr. David Y. Hui, Center for Lipid and Arteriosclerosis Studies, Department of Pathology, University of Cincinnati College of Medicine, 231 Albert Sabin Way, Cincinnati, OH 45267-0529.** *The University of Cincinnati is an Affirmative Action/Equal Opportunity Employer. Women, minorities, disabled persons, and Vietnam-era and disabled veterans are encouraged to apply. UC is a smoke-free environment.*

The Department of Environmental Science at the University of San Francisco (USF) invites applications for a tenure-track **ASSISTANT PROFESSOR** position in environmental science and studies with a specialty in land use planning and resource management to begin fall 2002. For details, please see **website: <http://www.usfca.edu/envsci/>.** *University of San Francisco is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR, VETERINARIAN. The Department of Biological Sciences announces a tenure-track position to begin as early as spring 2002. We seek a Veterinarian who is ACLAM Board certified or Board eligible to be responsible for daily veterinary care of research animals and report to the University veterinary consultant 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 devote 50% effort as veterinarian and 50% effort to either develop a research program complementary to the reproductive physiology group and seek extramural funding or participate in undergraduate and graduate teaching in the areas of physiology and zoology. Start-up funds are available. The Department (**website: <http://dept.kent.edu/biology>**) includes facilities for organismal, cellular, and molecular research. Applicants must have the D.V.M. with postdoctoral experience preferred. Review of applications will begin November 15, 2001; however, we will accept applications until the position is filled. To apply, please submit curriculum vitae, statement of research interests, and three letters of recommendation by that date to: **Dr. John Stalvey, Chair, Veterinarian Search Committee, Box 30, Department of Biological Sciences, Kent State University, Kent, OH 44242-0001.** *Kent State University is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION Hands-On Manager of Transgenic Mouse Facility

The University of Connecticut Health Center is seeking a highly qualified individual to supervise its mouse transgenic and ES cell culture cores as well as the colony management activities in the recently built barrier facility (capacity for 20,000 mice). The successful candidate will hold a Ph.D. (or other advanced degree) and have demonstrated expertise in gene targeting construct design, ES cell culture and manipulations, morula aggregation, pronuclei and blastocyst injection, mouse embryo manipulations, and barrier facility husbandry. He/she will join the faculty of the Department of Genetics and Developmental Biology and will fully participate in and enjoy the support of the Department.

Candidates should apply by submitting curriculum vitae and the names of three references to:

**Marc Lalande, Ph.D.
Professor and Chair
Department of Genetics and
Developmental Biology**

**The University of Connecticut Health Center
School of Medicine
Farmington, CT 06030-3301**

UCHC is an Equal Opportunity Employer; Minorities/Females/Veterans/Persons With Disabilities.

FACULTY JOB OPPORTUNITY DANA-FARBER CANCER INSTITUTE Department of Pediatric Oncology

The Department of Pediatric Oncology at the Dana-Farber Cancer Institute, Harvard Medical School, invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. The appointee will join a superb faculty with interests in genome stability, leukemogenesis, expression profiling, stem cell, and neurobiology. He/she will be expected to develop an outstanding, independent research program relevant to cancer.

Candidates should have an M.D. and/or Ph.D. degree and postdoctoral experience. Candidates should send curriculum vitae, three letters of reference, and a description of future research plans to:

**Stuart H. Orkin, M.D.
Chair, Department of Pediatric Oncology
Dana-Farber Cancer Institute
44 Binney Street
Boston, MA 02115**

Qualified women and minority candidates are encouraged to apply.

POSITIONS OPEN

TENURE-TRACK ASSISTANT PROFESSOR SYSTEMS NEUROSCIENCE/ PERCEPTUAL SYSTEMS

The Center for Perceptual Systems at The University of Texas at Austin is currently inviting applications for a full-time, tenure-track appointment at the Assistant Professor level to begin September 1, 2002. Candidates must have a Ph.D. or equivalent from an accredited institution and a demonstrated ability to pursue an independent research program. Salary will be commensurate with experience.

We are interested in candidates investigating the functioning of sensory and perceptual systems from a strong neuroscience perspective. Preference will be given to candidates investigating either neural correlates of perceptual function in awake behaving organisms or the relationships between perceptual systems, behavior, and the environment.

The successful candidate will be expected to develop and maintain an extramurally funded research program and to participate in pedagogical activities at both the graduate and undergraduate level.

Interested applicants should send a letter of interest, three letters of recommendation, current curriculum vitae, representative scholarly publications, and evidence/potential for excellence in teaching to: **Michael Domjan, Faculty Search Committee, Department of Psychology, The University of Texas at Austin, Austin, TX 78712.** Applications will be accepted until a successful applicant has been selected. *The University of Texas is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION MOLECULAR AND CELLULAR PHARMACOLOGY School of Medicine University of Miami

The Department of Molecular and Cellular Pharmacology at the University of Miami School of Medicine is seeking applications for a **TENURE-TRACK FACULTY POSITION** (rank open). Rank and salary will be commensurate with experience. Excellent laboratory space and start-up funds are available. Candidates must have a Ph.D. and/or M.D. degree and have an established record of research excellence. Applicants from all areas of molecular/cellular biology and biomedical research are welcome. The new faculty member will complement existing research efforts in the Department, which include regulation of cardiac and skeletal muscle function, ion channels, receptors and signal transduction, function and development of the nervous system, and steroid hormone action.

Applicants should send curriculum vitae, description of current and future research interests, and the names and addresses of three references to: **Dr. James D. Potter, Chairman, Department of Molecular and Cellular Pharmacology, University of Miami School of Medicine, P.O. Box 016189, Miami, FL 33101.** *An Equal Opportunity/Affirmative Action Employer.*

Case Western Reserve University (CWRU), Cleveland, Ohio, Division of Nephrology. The Division of Nephrology at CWRU has opportunities for **RESEARCH SCIENTISTS** to be based in the Renal Section at the Cleveland-Louis B. Stokes VA Medical Center. We are seeking an M.D. or M.D./Ph.D. Nephrologist who is Board certified in internal medicine and nephrology or Board eligible in nephrology. The applicant should be capable of developing an independent research program. This is a tenure-track position. This faculty member will have the opportunity for joint appointments in basic science departments. Academic rank commensurate with experience. We are also seeking a Ph.D. (or M.S./B.S.) Researcher with experience in cell and molecular biology. Academic rank and/or job title commensurate with experience. Forward curriculum vitae to: **R. Tyler Miller, M.D., Professor of Medicine, Chief, Renal Section, Louis B. Stokes VA Medical Center, 10701 East Boulevard, Cleveland, OH 44106.** E-mail: rtm4@po.cwru.edu.

Case Western Reserve University is an Affirmative Action/Equal Opportunity Employer.

CHAIR, DEPARTMENT OF PATHOBIOLOGY Ontario Veterinary College

Applications and nominations are invited for the position of Chair, Department of Pathobiology, Ontario Veterinary College. Candidates should have an established scholarly reputation in a discipline compatible with the mission of the Department, have some experience in administration, and be devoted to excellence in education and research in a veterinary setting.

The Ontario Veterinary College (www.ovc.uoguelph.ca) is one of the founding colleges of the University of Guelph, a publicly funded institution. It consists of four academic departments (Biomedical Sciences, Clinical Studies, Pathobiology and Population Medicine) and a Veterinary Teaching Hospital (VTH). The College offers progressive undergraduate and graduate programs. The University of Guelph is one of Canada's leading comprehensive universities. The city of Guelph (www.city.guelph.on.ca) is a pleasant community of 100,000 people located in southern Ontario approximately one hour west of Toronto.

The Department is responsible for delivery of professional and specialist education, basic and applied research, and research training in the fields of Anatomic Pathology, Avian Medicine, Bacteriology, Clinical Pathology, Fish and Aquatic Animal Medicine, Immunology, Laboratory Animal Medicine, Parasitology, Virology and Wildlife/Zoo Animal Medicine. The Department works in collaboration with the Animal Health Laboratory which provides laboratory diagnostic services for the animal owning public of Ontario, referring veterinarians and the VTH. In addition to courses in the DVM and BSc programs, the Department offers Graduate Diploma, MSc, DVSc and PhD programs in the departmental discipline fields. The Chair is responsible for fostering academic excellence and for providing administrative leadership. The Chair works collaboratively with other College administrators to further the mission of the College and University.

The University of Guelph is committed to an employment equity program that includes special measures to achieve diversity among its faculty and staff. We therefore particularly encourage applications from qualified aboriginal Canadians, persons with disabilities, members of visible minorities and women.

Salary and rank will depend on qualifications and experience. Applications should be accompanied by a detailed curriculum vitae, the names of at least three referees and a brief statement of interest in the position. Letters of nomination should include biographical details of the nominee. The deadline for applications and nominations is **March 15, 2002** or until a suitable applicant is identified, and should be sent to: **Dr. Alan H. Meek, Dean, Ontario Veterinary College, University of Guelph, Guelph, Ontario N1G 2W1 Canada.**

**UNIVERSITY
of GUELPH**

HIV Drug Resistance Program

Senior Research Fellow, Research Fellow, and Postdoctoral Fellow

Senior Research Fellow, Research Fellow, and Postdoctoral Fellow positions are available immediately in a research program focused on understanding the replication of human immunodeficiency virus and other retroviruses. Research projects encompass broad areas of retroviral genetics, molecular mechanisms of viral replication, and pathogenesis. Specific ongoing projects include mechanisms of retroviral recombination and reverse transcription, mechanisms of retroviral RNA packaging and virus assembly, and interactions between different retroviruses.

Applicants must have a strong background in molecular biology, biochemistry, and/or virology. Applicants to the Research Fellow and Senior Research Fellow positions must have relevant prior postdoctoral experience (salary range: \$33,000–\$76,000, commensurate with experience). The Postdoctoral Fellow salary range is \$32,004–\$51,877, commensurate with experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to:

Dr. Wei-Shau Hu
HIV Drug Resistance Program
NCI-Frederick, P.O. Box B
Frederick, MD 21702
Fax: 301-846-6013, E-mail: whu@ncifcrf.gov
Website: www.ncifcrf.gov/hivdrp/Hu.html

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You will be responsible for a central analytical MS laboratory providing efficient support in structure elucidation and verification to research within a multidisciplinary spectroscopy team equipped with state of the art instrumentation. You will manage core analytical service activities, and supervise and educate coworkers. You will evaluate, develop and introduce new methods and instrumentation to improve and expand our portfolio of analytical services.

For more details about this and other opportunities visit our careers website, quoting job ref N01224. Please send your CV by e-mail to willy.kinzy@pharma.novartis.com.

POSITIONS OPEN

BIostatistics/QUantitative BIOLOGY

Department of Biology Southwest Texas State University

The Department of Biology invites applications for a tenure-track **ASSISTANT PROFESSOR** effective 1 September 2002. We seek an individual with expertise in quantitative biology who will teach two graduate-level courses in biostatistics. Part of the assigned workload will be to advise graduate students and faculty with statistical design and analysis of research projects. The individual is expected to develop a strong research program in some aspect of quantitative biology for which he/she will seek extramural funding. Specific research interest area is open but individuals who can support the Department's Doctoral plan in aquatic resources will be given preference. Postdoctoral experience preferred. Applicants should submit curriculum vitae, copies of up to five publications, statements of teaching and research philosophies, copies of transcripts, and a list of three references including telephone numbers and e-mail addresses to: **Francis L. Rose, Chair, Biology Department, Southwest Texas State University, San Marcos, TX 78666**. More can be learned about the Department at website: <http://www.bio.swt.edu>. Review of applications begins on 15 January 2002 and continues until a suitable candidate is found. The University reserves the right not to proceed with an appointment for financial or programmatic reasons. *SWT is an Affirmative Action/Equal Opportunity Employer and is committed to increasing the number of women and minorities in faculty and administrative positions.*

THREE TENURE-TRACK FACULTY POSITIONS Colorado State University

(1) Animal development: Areas of particular interest include but are not limited to developmental genetics and evolutionary development and developmental genomics. Candidates working on model organisms will be given preference.

(2) Theoretical evolution: Areas of interest include but are not limited to molecular evolution, cladistic theory, coevolutionary theory, statistical genetics, population structure, and speciation theory.

(3) Animal ecology: Areas of interest include but are not limited to population biology and vertebrate ecology.

For all three positions, we anticipate hiring at the **ASSISTANT PROFESSOR** level but outstanding senior candidates will be considered. Applicants should have the Ph.D. and postdoctoral experience. To receive full consideration, send teaching and research interests, curriculum vitae, letters from at least three references (sent separately), and up to three publications to: (appropriate) **Search Committee, Department of Biology, Colorado State University, Fort Collins, CO 80523** by 15 December 2001.

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

ASSISTANT PROFESSOR, PHYSICS New Jersey Institute of Technology

New Jersey Institute of Technology invites applications for a tenure-track Assistant Professor beginning in fall 2002. The successful applicant will be an optics experimentalist with research specialization in one or more of the following areas: optical science, photonics, optical waveguides/devices/integrated optics, biophotonics, optical biophysics, laser physics, or imaging. The candidate will be expected to develop a grant-funded research program, teach effectively at both the undergraduate and graduate level, and advise and mentor students. A Ph.D. in physics or related area required. Applications initiated by March 2002 or before will be assured full consideration. Send curriculum vitae, statement of research interests, and three letters of recommendation to: **New Jersey Institute of Technology, Personnel Box P-AP, University Heights, Newark, NJ 07102-1982**. *NJIT is an Equal Opportunity/Affirmative Action/Equal Access Employer.*

POSITIONS OPEN

ANTICIPATED VACANCY

ASSISTANT PROFESSOR of biology. Tenure track. Salary is competitive. Date of appointment is August 27, 2002. Responsibilities: Teach major introductory biology (lecture and laboratory), freshwater invertebrates, comparative anatomy, and advanced projects in biology. Other teaching responsibilities could include nonmajors' general biology, people and the environment, entomology, parasitology, and limnology. The faculty member will be expected to conduct research with undergraduate and possibly graduate students. Duties will also include advising students and participating in departmental and university committees. The faculty member should anticipate involvement with interdisciplinary teaching and distance learning delivery. Qualifications: a Ph.D. in an appropriate area of biology. Evidence of effective teaching ability is also required. Application information: Send letter of application, curriculum vitae, graduate and undergraduate transcripts (note: official transcripts required at the time of appointment), and three references. *All applicants must be able to lawfully accept employment in the United States at the time of an offer of employment.* Apply to: **Dr. Ranae Womack, Dean, College of Social and Natural Sciences, Bemidji State University, Box 27, 1500 Birchmont Drive N.E., Bemidji, MN 56601-2699**. Postmark deadline is January 15, 2002. *Bemidji State University is an Equal Opportunity/Affirmative Action Employer.*

Biological sciences: **ASSISTANT PROFESSOR** (full-time, tenure track) beginning August 1, 2002. Molecular Geneticist. Ph.D. required and postdoctoral research experience desired. Primary teaching responsibilities involve undergraduate courses in introductory genetics and molecular genetics, a graduate course in environmental genetics, and development of advanced courses in specialty of interest. Commitment to teaching excellence, responsiveness to student needs, and effective communication skills essential. Scholarly activities and a research program that involves undergraduate and graduate students expected. Pursuit of extramural funding for research essential. Advising students and participation in departmental matters required. Preference given to candidates with demonstrated excellence in college or university teaching. Send curriculum vitae, transcripts, statement of interest and goals in teaching and research, and three reference letters to: **Dr. Charles H. Nelson, Head, Department of Biological and Environmental Sciences, 615 McCallie Avenue, The University of Tennessee at Chattanooga, Chattanooga, TN 37403**. Screening of credentials will begin December 1, 2001, and will continue until the position is filled. *UTC is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/Americans With Disabilities Act/Age Discrimination in Employment Act Institution.*

The Department of Molecular and Cell Biology at Boston University Goldman School of Dental Medicine has successfully completed the first phase of its expansion. For the second phase, it now has additional openings at the **SENIOR ASSISTANT, ASSOCIATE, or FULL PROFESSOR** levels. We seek individuals with an outstanding publication record and an ongoing NIH-funded research program. Qualified Ph.D., D.M.D., or M.D. candidates with research interests in the areas of biochemistry, microbiology, cell biology, and molecular genetics with potential relevance to oral health and craniofacial development are especially encouraged to apply. The Department will move early next year to newly renovated space. Excellent start-up funds are available. Please send curriculum vitae including a 250-word summary of present and future research plans and names and addresses of three references to: **Dr. Phillips W. Robbins, Chair of Search Committee and Dr. Carlos B. Hirschberg, Department Chair, Department of Molecular and Cell Biology, Boston University Goldman School of Dental Medicine, Center for Advanced Biomedical Research, 700 Albany Street, W201, Boston, MA 02118** by December 31, 2001.

POSITIONS OPEN

FACULTY POSITION

Genome Center of Wisconsin University of Wisconsin-Madison

The University of Wisconsin-Madison seeks an **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** tenure-track faculty member in bioinformatics. The faculty member will hold an appointment in the Genome Center of Wisconsin and a joint appointment in an appropriate academic department (physical, biological, computational, or engineering sciences). The Genome Center of Wisconsin has been established at UW-Madison as a center of excellence in the study of genomes as a whole and is to be housed in modern facilities in a new building. We seek faculty in bioinformatics including the interpretation, analysis, and distribution of information on genomes. Ideal candidates will be innovators in bioinformatic approaches wishing to address significant biological problems.

Candidates should demonstrate the ability to conduct a vigorous research program and teach. Include curriculum vitae and a one- to two-page statement on your research and teaching interests, up to five reprints, and any other (brief) information you wish to provide. Up to five letters of reference should be sent under separate cover to the address that follows. Electronic applications are welcome. Send applications to: **Deborah Faupel, Genome Center of Wisconsin, UW Biotechnology Center, 425 Henry Mall, Madison, WI 53706**. Review of applications will begin December 15, 2001, and continue until the position is filled.

Associated faculty include **Thomas Anantharaman, Frederick Blattner, Franco Cerrina, Mark Craven, Sally Leong, Michael Newton, C. David Page, Nicole Perna, George Phillips, David Schwartz, Jude Shavlik, Lloyd Smith, Michael Sussman, and Brian Yandell** (website: <http://www.gcow.wisc.edu>). *An Affirmative Action/Equal Opportunity Employer. Please note that unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality.*

CELL/DEVELOPMENTAL BIOLOGIST The University of Scranton

The University of Scranton, a Catholic and Jesuit Institution in northeastern Pennsylvania, invites applications for a tenure-track **ASSISTANT PROFESSOR** position in cell and developmental biology starting in August 2002. Applicants must have a Ph.D. and postdoctoral experience is desirable. The successful candidate will teach upper-division courses in developmental biology and cell biology and will contribute to courses in general biology or the natural science component of the University's general education program. Excellence in teaching and an active research program that will involve undergraduates are expected. The successful candidate will have an understanding of and commitment to the goals of Jesuit education. A full statement of our mission may be found at: website: <http://www.uofs.edu/admin/mission.html>. Submit curriculum vitae, statements of teaching philosophy and research interests, and three letters of reference by 7 January 2002 to: **Michael Hardisky, Chair, Biology Department, The University of Scranton, Scranton, PA 18510**. No applications accepted by FAX or e-mail. *The University of Scranton is an Affirmative Action/Equal Opportunity Employer and Educator. Women and minorities are encouraged to apply.*

DEAN, COLLEGE OF SCIENCES. Applications are invited by the University of Louisiana at Lafayette. The applicant must have appropriate credentials and possess the diplomatic interpersonal skills to lead the college to new, imaginative programs of teaching and research.

The University is located in Lafayette, the heart of French Louisiana, a very pleasant and exciting place to live.

Application review begins January 4, 2002. Additional details available at website: <http://www.louisiana.edu/Sciences>. *Affirmative Action/Equal Employment Opportunity compliant.*

HUMAN PHYSIOLOGY

The Department of Integrative Biology at the University of California, Berkeley seeks a scientist who uses an integrative approach to lead a vigorous and innovative research program in some aspect of human physiology. We seek a colleague to join a department with a strong multidisciplinary emphasis, and to help the Berkeley campus develop its new Health Sciences Initiative. The ideal candidate will have a strong commitment to maintaining a vital research program, and to development of undergraduate and graduate curricula. The primary teaching responsibility will be in human organ and systems physiology with the expectation that courses and seminars in the area of specialization will be developed. The position will be filled at the non-tenured, tenure-track level, starting July 1, 2002.

Applications, including a *curriculum vitae*, a list of publications, reprints of the three most significant publications, a brief statement of research and teaching objectives, and names and addresses of at least three referees should be sent to: **Chair, Human Physiology Search Committee, Department of Integrative Biology, 3060 VLSB, University of California at Berkeley, Berkeley, CA 94720-3140.**

Applications must be postmarked by **December 17, 2001**. Early applications are encouraged.

The University of California, Berkeley is an Affirmative Action/Equal Opportunity Employer committed to excellence through diversity.

GLOBAL OPPORTUNITIES

**CSIRO Entomology,
Indooroopilly QLD
Australia**



Research Scientist

**Biological Control - Management
of Tropical Plant Invasions**

**\$AUS57K - \$AUS77K
+ Superannuation**

Biological invasions of pests, weeds and diseases are regarded as second only to habitat destruction as a threat to biodiversity. In addition weeds cause losses of more than A\$3 billion per year to Australian Agriculture. We are seeking a research scientist with the potential to lead research in the area of weed biological control.

As part of a group working on the management of tropical weeds, you would be responsible for conducting innovative ecological studies to improve the efficiency of biological control research. This position embodies an exciting opportunity to make a substantial contribution to the sustainable management of plant invasions in northern Australia.

Currently, a major thrust of the work is the biological control of *Mimosa pigra*; one of Australia's declared Weeds of National Significance. We place high value on research achievement and innovation and will consider applicants with a range of experience from new PhD graduates to experienced researchers. This position is available for 3 years initially.

Applications close 23 November 2001. For more information see <http://www.ento.csiro.au>

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Opportunities in suburban Philadelphia, PA.

Building new scientific inroads to drug discovery.

Driving the success of GlaxoSmithKline - the world's leading pharmaceutical organization, - is a continual search for innovation. Apart from a research and development capability that sets the benchmark for our industry, we're committed to recruiting and retaining the best and brightest by providing unequalled individual and career development opportunities within our organization.

Head, *In Vivo* Biology

As a leader in the use of *in vivo* models you will oversee a team in the identification of novel protein agents derived from the human genome. The *in vivo* models that you will be experienced in will include some of the following: immunological, bacterial, viral, and oncology models. Using your experience with *in vivo* assays using protein agents and monoclonal antibodies, you will manage a multi-disciplinary team dealing with protein therapeutics, antibodies and their effect in various *in vivo* models. You will also have a strong influence on future research directions of the department, as you establish multi-disciplinary research collaborations with the departments of Genetics Research, Discovery Research and Drug Discovery to identify the therapeutic potential of these novel proteins. The successful candidate will have a Ph.D. in biological sciences with 8-10 years of managing industrial research and a proven track record of publications, patents and presentations. Strong experience with *in vivo* assays using protein agents and monoclonal antibodies is essential. Good oral and written skills are also required. (Job Code: 01-1326)

Associate Scientist, Scientist and Sr. Scientist, *In Vivo* Biology

As a Scientist in *in vivo* models you will work in a team studying the effects of novel protein agents and antibodies on disease progression in *in vivo* models. We are looking for a number of motivated "self starter" individuals with experience in the following: *in vivo* models, oncology, immunology, and viral and bacterial host defense and wound repair. You will be responsible for establishing, managing and running these models in a team environment. We will expect you to have a BS, or MA degree in a relevant biological subject with 2-10 years of industrial or academic experience. Good oral and written skills are essential. (Job Code: 01-1737 or Job Code: 01-1735)

Investigator, Gene Expression Analysis

You will be responsible for analyzing gene expression (protein and RNA) as part of a multi-disciplinary team dealing with protein therapeutics, antibodies, and their effects in *in vivo* models. You will quantify changes in gene expression in tissues obtained from immunological, bacterial, viral, and oncology models using technologies such as ELISA's, multiplexed analyte methods, and real-time quantitative RT-PCR. You will train and supervise junior staff, identify new research directions, establish collaborations with other investigators, and effectively communicate results at meetings. In addition, you will implement automation technologies where appropriate to enhance efficiency and throughput, and use the best available informatics tools for data handling and analysis. Your Ph.D. in a biological science with one or more years of post-doctoral experience, or BS/MS with equivalent practical experience is necessary. (Job Code: 01-1417)

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POSITIONS OPEN

FACULTY POSITION STRUCTURAL BIOLOGIST Johns Hopkins University

The Department of Biochemistry and Molecular Biology invites applications for a tenure-track faculty position in the area of structural biology. Preference will be given to candidates at the **ASSISTANT PROFESSOR** level, but exceptional candidates at more senior levels will also be considered. The successful candidate will be expected to establish a dynamic research program and to demonstrate a strong commitment to graduate training and education. We particularly seek applicants whose research involves X-ray crystallographic or NMR approaches that address fundamental biological questions or important biomedical problems through studies of the three-dimensional structures and functions of proteins or protein complexes. A strong financial commitment by the Institution to the structural biology program ensures that state-of-the-art instrumentation and computational facilities will be made available to the successful candidate. Terrific opportunities exist for interaction with the vibrant biophysical research community at Johns Hopkins including membership in the campuswide Institute for Biophysical Research, which directs graduate training through the Program in Molecular Biophysics. Applicants should submit curriculum vitae, up to four selected reprints, and a concise summary of research accomplishments and future research plans as well as arrange for three letters of recommendation to be sent to: **Dr. Cecile Pickart, Chair, Structural Biology Search Committee, Department of Biochemistry and Molecular Biology, Johns Hopkins University, Bloomberg School of Public Health, 615 North Wolfe Street, Baltimore, MD 21205.** Review of applications will begin December 10, 2001. *The Johns Hopkins University actively encourages interest from women and minorities and is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITIONS Cancer Research

The Hermelin Brain Tumor Center in the Department of Neurosurgery, Henry Ford Hospital, invites applications for two full-time, independent Researchers to join our collaborative and CNS tumor-focused program. A Doctoral degree with a minimum of two years of postdoctoral research is required; experience and skill in angiogenesis, gene therapy, apoptosis, or cancer cell invasion is preferred. The opportunity to develop an NIH-funded translational research program relevant to brain tumors is enhanced by the substantial start-up packages and competitive salaries that will be offered. In addition, candidates will be able to focus exclusively on research. Appointments will be made at the senior staff level and adjunct academic appointments at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level at regional Universities will be supported. For more information, see [website: http://www.hermelinbraintumorcenter.org](http://www.hermelinbraintumorcenter.org).

Please send curriculum vitae and the names of three references to: **Dr. Oliver Bögl, Hermelin Brain Tumor Center, E&R 3096, Henry Ford Hospital, 2799 West Grand Boulevard, Detroit, MI 48202.**

Henry Ford Health System is focused on people and committed to diversity.

Two **POSTDOCTORAL POSITIONS** are available with the Center for Network Neuroscience (CNNS) at the University of North Texas. The Center is presently funded by DARPA, NIH, and some subcontracts to conduct research in (1) tissue-based biosensors using neuronal networks on microelectrode arrays; (2) characterization of neuroactive or neurotoxic activity from novel plant-derived compounds; and (3) internal network dynamics including pattern generation and identification of network sub-patterns. The Center is looking for individuals with experience in electrophysiology, pharmacology, or toxicology. Interested candidates are encouraged to apply to: **Professor Guenter W. Gross, Biological Sciences, UNT, P.O. Box 305220, Denton, TX 76201.** E-mail: gross@cnns.org; Telephone: 940-565-3615.

POSITIONS OPEN

DEVELOPMENTAL BIOLOGIST Department of Biology Southwest Texas State University

The Department of Biology invites applications for a tenure-track **ASSISTANT PROFESSOR** position effective 1 September 2002. The successful candidate will develop an externally funded research program in an aspect of contemporary developmental biology that supports the Department's Doctoral plan in aquatic resources. Potential areas include but are not restricted to research on effects of environmental toxins on development of aquatic organisms, genomics, and morphogenesis of eukaryotes. On-campus resources include automated DNA sequencers and the Integrated Microscopy Center. Teaching responsibilities include a course in developmental biology, a graduate course in the individual's specialty, and participating in the Department's general curriculum. Postdoctoral experience is preferred. Applicants should submit curriculum vitae, copies of up to five publications, statements of teaching and research philosophies, copies of transcripts, and a list of three references including telephone numbers and e-mail addresses to: **Francis L. Rose, Chair, Biology Department, Southwest Texas State University, San Marcos, TX 78666.** More can be learned about the Department at [website: http://www.bio.swt.edu](http://www.bio.swt.edu). Review of applications begins on 15 January 2002 and continues until a suitable candidate is found. The University reserves the right not to proceed with an appointment for financial or programmatic reasons. *SWT is an Affirmative Action/Equal Opportunity Employer and is committed to increasing the number of women and minorities in faculty and administrative positions.*

FACULTY POSITION Harvey and Bernice Jones Eye Institute University of Arkansas for Medical Sciences

The Department of Ophthalmology invites applications for a full-time, tenure-track position at the **ASSISTANT PROFESSOR** level to establish an independent research program with sustained extramural funding in the area of immunology/pathogenesis of corneal disease caused by virus infection (e.g., recurrent HSV-1 keratitis or adenovirus conjunctivitis). The successful candidate will hold a joint appointment in the Department of Microbiology and Immunology and augment the existing research programs of the Arkansas Center for Eye Research. A generous and competitive start-up package with exceptional laboratory space in a modern ophthalmology research facility is available. Candidates must have a Ph.D. or M.D. degree and at least two years of postdoctoral experience. Review of applications will begin October 1, 2001, and continue until the position is filled. Candidates should send complete curriculum vitae, a statement of research interests and goals, and the names of three references to: **Richard D. Dix, Ph.D., Jones Eye Institute, University of Arkansas for Medical Sciences, 4301 West Markham Street, Slot 523, Little Rock, AR 72205.** E-mail: dixrichard@uams.edu.

POSTDOCTORAL FELLOWSHIPS are available at the University of Texas Medical Branch to implement novel technologies to combat highly pathogenic microorganisms and elucidate their molecular pathogenesis. This research focuses on re-emerging infectious diseases (e.g., VEE and VHF, rickettsiae, and foot-and-mouth disease) and utilizes recent advances in genomics, proteomics, and structural biology. Excellent microbiology and structural biology facilities are available for this research (see [website: http://www.xray.utmb.edu/antipathogen](http://www.xray.utmb.edu/antipathogen)). This research is funded in part by the CDC, DARPA, and DoD.

Applicants must have research experience in structural and cell biology, protein biochemistry, or virology. E-mail curriculum vitae and three letters of reference to: **Dr. S. Watowich; e-mail: watowich@bloch.utmb.edu.** *UTMB is an Equal Opportunity/Affirmative Action Employer. UTMB hires only individuals authorized to work in the United States. Minorities and females are encouraged to apply.*

POSITIONS OPEN

TWO POSITIONS MOLECULAR EVOLUTION AND SYSTEMATICS OF PLANTS University of Michigan

The Department of Ecology and Evolutionary Biology and the University Herbarium solicit applications for two faculty positions in the molecular evolution and systematics of plants. The first is a tenured position at the **ASSOCIATE PROFESSOR** or **PROFESSOR** level. The successful candidate will also be appointed as Director of the Herbarium. The second position is a tenure-track **ASSISTANT PROFESSORSHIP**. We seek accomplished individuals whose primary research interests are in aspects of plant evolutionary biology such as evolution of development, molecular evolution, and molecular systematics. A Ph.D. in an appropriate area is required. Teaching responsibilities will include participation in courses on systematics and evolution of plants. The successful candidate for Director will lead, administer, and help rebuild our program in plant evolutionary biology in the Herbarium and the Department. The Department of Ecology and Evolutionary Biology is a new unit with a balance of Plant and Animal Ecologists and Animal Evolutionary Biologists preparing to increase our strength in plant evolution.

To apply, send curriculum vitae, brief summaries of present research and future research plans and teaching interests, copies of publications, and either names and contact information of three references (senior position) or arrange to have three letters of reference sent (junior position) to:

**Chair, Plant Evolution and
Systematics Search Committee
Department of Ecology and
Evolutionary Biology
The University of Michigan
Ann Arbor, MI 48109-1048**

Review of application materials for both positions will begin January 7, 2002. *The University of Michigan is a nondiscriminatory Affirmative Action Employer.*

CHAIR, DEPARTMENT OF BIOLOGICAL STRUCTURE, University of Washington. The University of Washington seeks a **PROFESSOR** and Chair of the Department of Biological Structure. Candidates interested in guiding the expansion of research programs in developmental and cell biology are particularly encouraged to apply. The successful candidate will be an established Investigator who will provide strong administrative leadership, strengthen current research programs and develop new ones, and provide mentorship and guidance to new faculty members. Biological structure faculty members currently sponsor excellent research programs and actively participate in medical, allied health, undergraduate, and graduate student education ([website: http://www.biostr.washington.edu/](http://www.biostr.washington.edu/)). Please submit applications or nominations by December 16, 2001, to: **Richard C. Veith, M.D., Professor and Chair, Department of Psychiatry and Behavioral Sciences, University of Washington, 1959 N.E. Pacific, Box 356560, Seattle, WA 98195-6560.** *The University of Washington is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION PROTEIN ENGINEERING Triad Therapeutics, Inc., San Diego, California

Triad Therapeutics has a Postdoctoral position in protein engineering available in February of 2002. The candidate should have a Ph.D. in biochemistry or a related field and zero to two years of postdoctoral experience. Expertise in modern recombinant protein production and characterization methods and familiarity with protein structure determination are required. Experience with insect cell and/or yeast protein expression systems is highly desirable. Strong interpersonal and communication skills are required. Please send curriculum vitae with references to e-mail: dmein@triadt.com. Please visit [website: http://www.triadt.com](http://www.triadt.com) for more details and other jobs available.

JOHN INNES CENTRE

Project Leader Opportunities in Plant and Microbial Sciences

The John Innes Centre is one of the world's leading not-for-profit research institutes in plant and microbial sciences. Our research is currently organised in six major programmes:

- Metabolic Biology
- Disease and Stress Biology
- Molecular Microbiology
- Cell and Developmental Biology
- Crop Genetics
- Biological Chemistry

Research in these programmes is underpinned by extensive plant and microbial growth facilities and major investment in genomics, proteomics, bioinformatics and other platform technologies including a new 4,800 sq m Genome Centre opening in January 2002.

We are now seeking to fill two new project leader career-track positions as the first stage in a sustained recruitment drive over the next eight years. Competitive start-up funding will be provided. Applications and preliminary enquiries from outstanding young investigators in all areas of our science are welcome on a continuing basis and in the first round the following topics are of particular interest:

- Abiotic stress signalling and signal integration in plants
- Genome based approaches to natural product biosynthesis in microbes and / or plants
- Model legume biology
- Plant metabolic regulation
- Symbiotic plant:microbe interactions

Application forms can be accessed from http://www.jic.bbsrc.ac.uk/vacancies/pl_advert.htm or requested by E-mail to jicpers@bbsrc.ac.uk or by mail to the Personnel Officer, John Innes Centre, Norwich Research Park, Colney, Norwich, Norfolk, NR4 7UH quoting reference number 10 52. Please include a CV, names of three academic referees, statements of current research and future research plans (no more than two sides for each). Further particulars can be obtained from http://www.jic.bbsrc.ac.uk/vacancies/project_leader.htm and general information about the John Innes Centre and its research from <http://www.jic.bbsrc.ac.uk>. To ensure consideration in the first search, applications should be received by 14 December 2001.



PIONEER.

A DUPONT COMPANY

SENIOR RESEARCH ASSOCIATE

Pioneer Hi-Bred International, Inc. is the world leader in the discovery, development and delivery of elite crop genetics. We are currently seeking a Senior Research Associate in our Agronomic Traits Department located near Des Moines, Iowa. This person will conduct research in proteomics that enables the discovery of novel proteins and pathways associated with traits of interest. The qualified candidate will have a minimum M.S. or Ph.D. in biochemistry or related field as well as direct experience with 1-D and 2-D protein gel electrophoresis, electroblotting, affinity-based separations, subcellular fractionation, database management and normal/high-pressure liquid chromatography. Please visit www.pioneer.com for a complete job description.

You must reference Job Code RES/NP358/PSC in order to be considered. Please send a resume and cover letter to:

Resume Processing Center
Pioneer Hi-Bred International, Inc.
PO Box 14454
Des Moines, IA 50306-3454
or Email: apply@pioneerjobs.com

EOE



William J. von Liebig Chair in Biomedical Sciences

Juniata College seeks applications for the William J. von Liebig Chair in Biomedical Sciences. Juniata has one of the most productive undergraduate science programs in the nation, ranking sixth out of 1,115 predominantly undergraduate institutions in terms of percentage of science degrees to total undergraduate enrollment. Juniata was 23rd out of 136 institutions in a study tracking the percentage of science students earning doctorates within six years. Juniata also has a 90 percent success rate in allied health admissions to graduate schools. This position is funded through a generous grant from The William J. von Liebig Foundation. It is a non-tenure track, fixed-term (seven year) position. It is likely that the position will be extended beyond the seventh year.

We seek a person with extensive knowledge in biomedical research to teach (1/2 regular Juniata faculty load), supervise undergraduate research projects, advise undergraduates and to assist faculty in developing research modules in existing courses. We encourage applications from persons with background and experience in either the academic or private sector research communities. Qualified candidates must have a Ph.D.

Juniata College is a national coeducational, liberal arts college located in beautiful, rural central Pennsylvania and is highly regarded for its academic excellence. Juniata has an enrollment of 1,300 students. The campus consists of 1,100 total acres, which includes the Baker-Henry Nature Preserve and the Raystown Field Station. We are currently making major campus renovations including the construction of a \$20M science center, which will open in the fall of 2002. For more information about the College please see our website at www.juniata.edu. We are committed to gender and cultural diversity and encourage applications from women and minorities.

Please send letter of application, resume, transcripts, and three letters of reference to: Ms. Gail Leiby Ulrich, Director of Human Resources, Juniata College, Box P, Huntingdon, PA 16652. Applications will be accepted until the position is filled.

AA/EOE

Rosetta Inpharmatics

Rosetta Inpharmatics, a wholly owned subsidiary of Merck & Co. Inc., develops and implements technologies that will improve the way drugs are made. The company's leading-edge genomic research and data analysis focus on how medical compounds affect biology, enabling more accurate selection of drug targets, faster drug development and better drugs. We're looking for people who want to make a difference in science, technology, and the quality of human life. If this sounds like the right place for you, visit our website at www.rii.com.

Informatics

The Informatics division at Rosetta is rich in talented scientists specializing in mathematical and statistical modeling, algorithm development, data analysis, computational genomics, statistical genetics, and experiment design. Members drive a variety of cutting-edge research projects poised to revolutionize the drug discovery process. We are scanning the entire human and mouse genomes with expression arrays to discover novel genes, identify novel alternatively spliced forms of genes, and characterize genes with respect to their biological function. Using expression arrays, proteomics, and other data, effects of genetic and chemical influences in the cell are being decoded in detail to improve the success rate for new compounds and lay the foundation for personalized medicine. We are currently hiring for the following positions:

- Genome Analyst
- Principal Investigator of Computation Biology
- DNA Sequence Analyst
- Data Analyst
- Bioinformatics Analyst
- Bioinformatics Developers
- Bioinformatics Scientist

Biological Research

Biological Research at Rosetta involves laboratory experiments directed at developing cutting edge applications of DNA microarray technology. Current research programs include the use of this technology for gene discovery, analysis of signal transduction pathways, and pharmacogenomics. These programs offer the opportunity for creative and driven individuals to participate in the development of the next generation of pharmaceutical products for unmet medical needs. We are currently hiring scientists with experience in the following areas:

- Signal Transduction
- Pharmacogenomics
- Gene Functional Identification

Collaboration Research

The Collaborations Management team oversees projects between Rosetta and Merck Research Labs. The Collaborations team interacts with Scientists throughout Rosetta and other Merck Research Lab sites worldwide to apply our technologies toward Merck drug discovery efforts. We currently have several positions available.

- Program Lead Scientist

For more information about Rosetta Inpharmatics visit our website at www.rii.com or email resumes to hr@rii.com.



Yale UNIVERSITY

Department of Molecular, Cellular and Developmental Biology

The Department of Molecular, Cellular and Developmental Biology at Yale University invites applications for a faculty appointment at any level (**Assistant, Associate or Full Professor**). Individuals working in any area of **Molecular, Cellular, or Developmental Biology** are invited to apply. The department in particular seeks to strengthen its faculty in the areas of **Vertebrate Development, Bioinformatics/Genomics, Plant Biology and Cell Biology**. It is expected that the successful candidate will develop an active research group, interact with the department's faculty, and participate in interdisciplinary research and training opportunities. In addition, the successful candidate should demonstrate excellence in teaching at both the undergraduate and graduate levels. Additional information on the Department of Molecular, Cellular and Developmental Biology and the research interests of its faculty can be found on our web site: <http://www.biology.yale.edu>.


Please send curriculum vitae, description of research interests and at least three recommendation letters by January 31, 2002, to: Search Committee, c/o Chairperson, Department of Molecular, Cellular and Developmental Biology, Yale University, P.O. Box 208103, New Haven, CT 06520-8103.

Yale University is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are especially encouraged to apply.



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UNIVERSITY OF
FLORIDA

UNIVERSITY OF FLORIDA
SHANDS CANCER CENTER

ASSISTANT AND ASSOCIATE PROFESSORS

The University of Florida Shands Cancer Center invites applications for one or two tenure-track faculty positions at the rank of Assistant Professor or above in the general area(s) of virus mediated transformation and immunology. Applicants with a background in Herpes or Papillomavirus model systems are particularly urged to apply. Successful applicants will join a multidisciplinary team of researchers in the Cancer Center as part of an ongoing programmatic expansion. Applicants will be expected to develop a competitive independent research program with the ultimate goal of understanding the cellular and immunological factors that mediate transformation and tumor growth. Acceptable areas of focus include tumor or viral immunology, virus mediated transformation and oncogenesis, and associated cytokine and cell-signaling responses. The successful applicant will join the faculty of the College of Medicine with a Departmental affiliation based on the applicant's area of specialization. Applicants must have an M.D. and/or Ph.D. degree and a demonstrated record of expertise in the areas of tumor virology and/or immunology. The search committee will begin reviewing applications in mid-November 2001 and will continue to receive applications until the position is filled. Salary and rank will be commensurate with experience. Interested applicants should submit their curriculum vitae, a brief description of the research interests, and the names of three individuals from whom recommendations can be solicited. Send requested information to: **Dr. Sankar Swaminathan, Search Committee Chair, University of Florida Shands Cancer Center, P.O. Box 100232, Gainesville, FL 32610-0232.**

*The University of Florida is an Equal Employment
Opportunity Affirmative Action Employer*

FACULTY POSITION IN STRUCTURAL BIOLOGY DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY SAINT LOUIS UNIVERSITY SCHOOL OF MEDICINE

The Edward A. Doisy Department of Biochemistry and Molecular Biology is seeking applications for a tenure-track position involving research and teaching at the ASSISTANT PROFESSOR level, although outstanding candidates at a more senior level will be considered. We seek applicants who will use Structural Biological approaches to study fundamental biological mechanisms. We are interested in a highly interactive candidate whose interests would complement Department's ongoing strong research programs in cell and molecular biology, genetics, functional genomics and mechanistic biochemistry.

The successful candidate is expected to establish a strong extramurally funded research program. A potential for or demonstrated evidence of competing successfully for external funding will be an important criterion for selection. Excellent start-up funds and salary are available. Curriculum vitae, description of research plans, and at least three letters of recommendation should be sent to:

Search Committee
c/o William S. Sly, M.D., Chairman
Edward A. Doisy Department of
Biochemistry and Molecular Biology
Saint Louis University School of Medicine
1402 South Grand Blvd.
St. Louis, MO 63104-1028

Saint Louis University, a Catholic Jesuit Institution dedicated to education, research, and health care, is an Affirmative Action, Equal Opportunity Employer, and encourages nominations of and applications from women and minorities.



National Institute of Arthritis and
Musculoskeletal and Skin Diseases
The Intramural Research Program
Chief, Scientific Computing Section (SCS)

The National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) is seeking an exceptional individual to establish the Scientific Computing Section (SCS) within the Intramural Research Program (IRP) and serve as Chief of this Section. One of the major initiatives currently within the IRP is the development of a computational biology group.

The incumbent serves as manager of the SCS with responsibility for providing overall SCS supervision and planning. The SCS will provide computer expertise to support biomedical research activities in the IRP. Functions of the SCS will include (1) assessing the scientific computing needs of the IRP scientists and developing strategies and computational support for meeting the research needs, (2) designing and/or assembling a state-of-the-art collection of computational tools, (3) providing technical support and training for databases (e.g. clinical database); (4) formulating and implementing IRP wide plans for management of scientific and clinical support computing systems and software; (5) ensuring the availability of those resources to IRP scientists by providing training and by participating in joint research projects. Areas of current IRP needs include bioinformatics, mathematical and statistical techniques, database technology and image analysis.

Ideal candidates should have a Ph.D. degree in computational biology, bioinformatics or biostatistics, and/or in other fields relevant to the objectives of the SCS. Candidates should have extensive experience in managing a research information technology organization and supervising a technical staff, a strong publication record and experience with various programming languages and operating systems. Experience in bioinformatics is a plus. Salary will be commensurate with the qualifications and experience of the candidate. Applicants should forward their curriculum vitae, bibliography, a statement of research interests, and the names of three references to:

Dr. Peter Lipsky
c/o Scott Sigley, NIAMS, HRMB
Building 31, Room 4C-13
31 Center Drive, MSC 2350
Bethesda, MD 20892-2350
E-mail: sigleys@mail.nih.gov

Applications must be postmarked by January 1, 2002
NIH is an Equal Opportunity Employer



GLOBAL OPPORTUNITIES

Full Professorships

The Toyota Technological Institute invites applications for three principal professorships in the area of "Future Industry-oriented Basic Science and Materials" in the graduate school. The school is particularly interested in the following new and emerging areas of science and engineering, but are not limited to:

Functional Materials (e.g. functional polymeric materials, genetic engineering application, molecular design, combinatorial synthesis)
Ultimate Materials-structures (e.g. nano-structured materials, high-performance photonic materials, lithographically-structured materials and engineering, novel hybrid materials)
Materials Fabrication under Extreme Conditions/Circumstances (e.g. atom/molecule manipulation, materials synthesis under extremely high/low temperatures, laser-assisted materials fabrication, super-critical applied engineering)

Successful candidates are expected to develop internationally recognized research programs, excel in undergraduate and graduate teaching, and to take a leadership position in defining these areas. Each principal professor will organize a unit laboratory consisting of one principal professor, one associate professor and two to three post-doctoral fellows.

Supports for research start-up expenses (about \$1M), an annual research budget (about \$100K) and other exceptionally unique research plans will be provided.

Applications with CV, three copies of publications representing your works, and research proposals should be submitted by **January 31, 2002** to: **Professor Shuji Tanaka, Toyota Technological Institute, 2-12-1, Hisakata, Tempaku-ku, Nagoya, 468-8511, Japan. Tel/Fax: +81-52-809-1775/+81-52-809-1721, email: stanaka@toyota-ti.ac.jp** For details about the Institute; <http://www.toyota-ti.ac.jp>

The Toyota Technological Institute is an Equal Opportunity Employer.



Three Temporary (5 Year) Lectureships

The following vacancies have arisen as a result of tenured staff being awarded research fellowships. They offer the opportunity to develop independent or collaborative research programmes while contributing to teaching at undergraduate and graduate level.

Physical Biochemistry

Ref: 942/01

We wish to strengthen the School's base in physical biochemistry, preferably of proteins or glycoconjugates. Applications from those studying biophysical properties of macromolecules and their interactions would be particularly welcome.

For informal discussions contact: Professor Colin Stirling. E-mail: colin.stirling@man.ac.uk

Cell Signalling/Lipid Biochemistry

Ref: 943/01

We wish to complement the School's existing strengths in signal transduction and membrane trafficking by appointing in the broad area of cell signalling (e.g. receptors, signal transduction, pathways) or lipid biochemistry (e.g. lipid organisation, sorting, signalling).

For informal discussions contact: Professor Steve High. E-mail: stephen.high@man.ac.uk

Molecular Pharmacology

Ref: 944/01

Preference will be given to applicants with an established research reputation in receptors/channels/transporters. The person appointed will develop a strong research programme in relevant research areas and be involved in the teaching of pharmacology and physiology to bioscience and medical students.

For informal discussions contact: Professor Arthur Weston. E-mail: aweston@man.ac.uk

Information about the School and further particulars of each post can be found at <http://www.biomed.man.ac.uk>

The salary for these posts will be in the range £20,267 - £32,215 p.a.

Application forms and further particulars are available at <http://www.man.ac.uk/news/vacancies> or from the Office of the Director of Personnel, The University of Manchester, Oxford Road, Manchester M13 9PL. Tel: +44(0)161 275 2028; Fax: +44(0)161 275 2471; Minicom (for the hearing impaired): +44(0)161 275 7889; E-mail: personnel@man.ac.uk

Closing date: 7 December 2001. Please quote relevant reference number.



As an Equal Opportunities Employer, the University welcomes applications from suitably qualified people from all sections of the community regardless of race, religion, gender or disability.

POSTDOCTORAL FELLOW OPENING

NATIONAL CANCER INSTITUTE, NIH

T-cell Immunology/Cancer, HIV,
and HCV Vaccines

Molecular Immunogenetics and
Vaccine Research Section, NCI, NIH

The laboratory studies mechanisms of antigen presentation and T-lymphocyte recognition, with applications to design of vaccines for HIV, hepatitis C (HCV), papillomavirus, and cancer. A postdoctoral fellow is sought to work on HIV vaccine studies in mice, and in human cells in vitro, and related basic T cell immunology. Applicants must have Ph.D. and/or M.D. degree and laboratory experience, preferably in immunology, but fewer than 5 years postdoctoral experience. Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation or membership in an employee organization. The NCI is an Equal Employment Opportunity and Affirmative Action employer that values and fosters diversity throughout the entire organization.

Interested applicants should send a CV, brief description of research interests and experience, and contact information for three references to:

Jay A. Berzofsky, M.D., Ph.D., Molecular Immunogenetics and Vaccine Research Section, Metabolism Branch, NCI, Building 10, Room 6B-12, MSC 1578, NIH, Bethesda, MD 20892-1578. Voice: (301) 496-6874. Fax: (301) 496-9956; e-mail: berzofsky@helix.nih.gov.



New York University

TENURE TRACK POSITION

Department of Biology

FACULTY OF ARTS AND SCIENCE

New York University is expanding its efforts in genomics research. A new tenure-track position is currently available (subject to final administrative and budgetary approval) in the Department of Biology and its recently established Center for Comparative Functional Genomics. Emphasis will be placed on individuals with interests in prokaryotic genomics and related areas, although outstanding candidates in other fields also will be considered. Candidates will be expected to develop active, externally funded research programs and to participate in the department's teaching activities at both the undergraduate and graduate levels. The department offers an outstanding and vigorous research environment with a strong molecular and genetic focus. Active collaborations with other programs within the university, including bioinformatics and computational biology, and other local and regional research institutions offer significant opportunities for scientific interaction and joint research. Application letter with curriculum vita and three letters of reference should be sent to: **Chairman of the Search Committee, Department of Biology, New York University, 1009 Main Building, 100 Washington Square East, New York, NY 10003.**

NYU is an Equal Opportunity/Affirmative Action Employer.



BioMedica, Inc. is a wholly owned U.S. subsidiary of Oxford BioMedica plc., and is a leader in the development of innovative viral vector based gene transfer treatments for human disease. We currently have the following opportunities available for scientists who enjoy working in the dynamic environment of a rapidly growing company using cutting edge technologies.

Director/Senior Scientist-Neurobiology/Job Code: 101: (minimum 6, preferably 8+ years relevant experience) to lead a neurobiology group.

Director-Vector Systems/Job Code 201: (minimum 6, preferably 8+ years relevant experience) to lead group in the broad area of vector development including expression control, targeting and production systems improvement.

Research Scientist-Vector Systems/Job Code 202

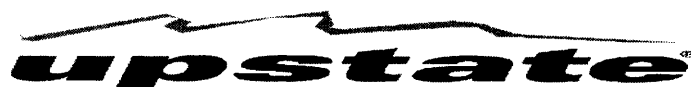
Research Scientist-Vector Biology/Job Code 301: to study the composition of vector particles and the influence of their composition on particle properties in vivo and in vitro.

Process Scientist-Product and Process Development/Job Code 401: to develop novel ways of vector particle purification.

In addition, we are seeking to fill several **Research Associate positions/Job Code 501** (BS/MS in a scientific discipline with a minimum of 2-4+ years related experience).

If you have demonstrated scientific accomplishments in an industrial or academic setting and are interested in applying your skills to R&D of gene transfer technologies targeting neurological diseases, you are encouraged to apply. BioMedica Inc. offers a highly competitive salary and superior benefits. Please send your resume, referencing the job code, to: **BioMedica, Inc., 6865 Flanders Drive, Suite G, San Diego, CA 92121. Fax: 858.677.6505.**

EOE



Upstate, a rapidly growing, dynamic company and the established leader in biomedical reagents for cell signaling research, has immediate openings for the following positions in our Lake Placid, New York and Charlottesville, Virginia locations. We are looking for candidates whose education and experience in Biological Science and Cell Signaling will help grow our business exponentially. All positions offer a competitive salary, full benefits, stock options, and a generous 401(K) match.

Post-doctoral Fellow/Staff Scientist (Charlottesville, VA)

Position to plan and execute experiments in our growing Chromatin Research group. Must have experience with recombinant DNA techniques, molecular biology, antibody purification and characterization, including immunocytochemistry, immunoblotting, and immunoprecipitation. Must have hands on experience with chromatin structure, histone modifications, and nuclear biology. Ph.D. in Life Science or MS with two years experience in research, academia, or a medical environment.

Research Associate (Charlottesville, VA)

Position to execute and analyze experiments in our growing Chromatin Research group. Must have experience with protein biochemistry and enzyme assay design. Knowledge of eukaryotic transcriptional regulation, chromatin structure and nuclear biology a plus. B.S. in the life science with a minimum of three years relevant research experience.

Technical Service Representative (Lake Placid, NY)

We currently have two positions for Technical Service Representatives. The candidates must have a B.S. degree in life science with two years laboratory experience in a relevant field. The candidate must also possess excellent verbal, written and interpersonal skills. The selected individual must possess and maintain courteous, professional telephone skills at all times, must be computer literate and be able to understand diverse and complex biological questions.

Research and Development Scientist (Lake Placid, NY)

We have several positions available for R&D Scientists to perform basic and intermediate cell and molecular biology techniques. One of the positions will concentrate on Monoclonal Antibody Production and one will specialize in Protein Purification. The candidates must have a B.S. in Biological Science with four years experience OR an M.S. with one year of experience in research, academia, or a medical environment. All candidates must possess excellent written and verbal communication skills as well as excellent reading comprehension. Must have the ability to reason scientifically and to work in teams.

Technology Transfer Information Specialist (Lake Placid, NY)

Candidate must have a B.S. degree, previous tech transfer experience would be an asset. The individual must have excellent interpersonal, written and verbal communication skills with the ability to comfortably interact with scientist and technology transfer officials. Must be able to multitask in a high paced dynamic team environment. Must pay great attention to detail and have strong computer skills. This position will require routine travel.

Please submit your resume and cover letter to: Upstate, Human Resources, 706 Forest St., Charlottesville, VA 22903 (hr-cv1@upstate.com) OR Upstate Biotechnology, Inc., Employee and Public Relations, 10 Old Barn Road, Lake Placid, NY 12946 (deptpr@upstatebiotech.com). An equal opportunity employer.

Visit us on the web at www.upstate.com



**Department Chair
The University of Oklahoma**

The Department of Zoology (www.ou.edu/cas/zoology) at the University of Oklahoma invites applications and nominations for Department Chair. We seek an individual who will provide leadership in a large, diverse and growing department composed of 34 faculty mem-

bers (with several open and new lines anticipated in the next three years), 12 staff, and about 50 graduate students working in a wide array of specialties. The department also serves over 450 undergraduate Zoology majors. Core areas of research emphasis exist within the broad fields of **Behavioral Neuroscience and Comparative Physiology; Evolution, Ecology and Behavior; and Molecular, Cellular and Developmental Biology.**

As an academic department, Zoology has close ties with three organized research units: the Oklahoma Biological Survey, the Sam Noble Oklahoma Museum of Natural History, and the University of Oklahoma Biological Station. In addition, many opportunities for collaborative research and instruction exist through the Department of Botany and Microbiology, the Department of Chemistry and Biochemistry, and the Noble Electron Microscopy Laboratory. The University of Oklahoma Health Sciences Center is in nearby Oklahoma City, a metropolitan area of over 1 million. Norman (population 95,700) is a city of tree-lined streets near the Canadian River in central Oklahoma. Various natural areas are found within a 125-mile radius of Norman, including shortgrass to tallgrass prairie, Ozark to cypress forests, streams and lakes.

We seek an integrative scientist with an internationally recognized and active research program who is knowledgeable about current issues pertinent to the three research areas outlined above and who has administrative experience. Teaching will consist of one course per academic year.

Applicants should send statements of research interests, administrative experience and philosophy; curriculum vitae; representative reprints; and the names, addresses, telephone numbers, and four letters from references, at least one of whom can address the candidate's administrative skills, to: **Chair Search Committee, Department of Zoology, University of Oklahoma, 730 Van Vleet Oval, Room 314, Norman, Oklahoma 73019.** The Search Committee will begin screening applicants on 15 January 2002 and applications will be accepted until the position is filled.

The University of Oklahoma is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

**STAFF SCIENTIST
NHLBI, NIH**

The Laboratory of Molecular Cardiology, National Heart, Lung, and Blood Institute, directed by Dr. Robert S. Adelstein is seeking a staff scientist. The candidate, with a Ph.D. and/or M.D., should have at least five years of post-doctoral experience and a strong publication record with respect to the molecular biology of muscle proteins. The person selected will be expected to carry out research on gene regulation of non-muscle myosins including the mechanism of alternative splicing found in these proteins.

The successful candidate will be offered a competitive salary commensurate with experience and qualifications under Title 42. Appointees must be US citizens, resident aliens, or non-resident aliens with a valid employment-authorized visa.

Applicants should submit a curriculum vitae, bibliography, brief statement of research interests, and have three letters of recommendation sent to:

**Mr. Donald Ouellette
Human Resources Branch
National Heart, Lung, and Blood Institute
31 Center Drive MSC 2484
Building 31, Room 5A28
Bethesda, MD 20892-2484**

Applications must be received no later than
December 17, 2001.

The NIH is an Equal Opportunity Employer. Applications from women, minorities, and persons with disabilities are strongly encouraged. The NHLBI/NIH is a smoke-free workplace.

Innovative Technology. Exceptional Opportunity.

Amgen, the world's leading biotechnology company, is dedicated to improving patients' lives by offering new human therapeutics. Our first two products, EPOGEN® (Epoetin alfa) and NEUPOGEN® (Filgrastim), are among the most successful human therapeutics ever launched. We have multiple positions in our Pharmaceuticals Department.

RESEARCH SCIENTISTS

Representing the department in corporate-wide clinical development teams, you will help to develop a respected research program centered on protein stability. Duties include developing formulations for protein clinical candidates and supervising one or more associates. Ideal candidate will be a team leader with exceptional problem-solving skills. Requires a PhD and post-doctoral experience in protein chemistry, analytical chemistry, spectroscopy and protein engineering. Demonstrated exposure to protein structure function relationships, protein conformation folding studies and biophysical characterization is essential. Must be committed to the advancement of science and improving human health through the development of new medicines. A background in the development of protein lyophilized formulations is strongly preferred, and knowledge of alternate drug delivery technology is a plus.

RESEARCH ASSOCIATES

As an integral part of the Protein Formulation group, you will conduct laboratory experiments that will be used to recommend liquid or lyophilized formulations for clinical use. You will collect, chart and analyze data, maintain lab notebooks and present findings in department meetings. The ideal candidate will have a BS or MS in life sciences and 2+ years of industrial experience. Must have biochemistry lab background and a strong interest in studying protein stability using complex analytical equipment, including HPLC, CD, Fluorescence and DSC. PC proficiency is essential.

For immediate consideration, forward your resume, including (Ad Code 822) to: tevarts@amgen.com; or by mail at: (Ad Code 822) Amgen Staffing, P.O. Box 2569, Thousand Oaks, CA 91319-2569. For additional information on Amgen, please visit our www.amgen.com website. EEO/AA Employer M/F/D/V.

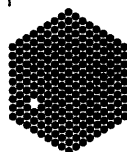
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EMBL

The European Molecular Biology Laboratory (EMBL), an international research organisation with its Headquarters Laboratory in Heidelberg (Germany), Outstations situated in Grenoble (France), Hamburg (Germany) and Hinxton (UK), and a Research Programme at Monterotondo (Italy) has the following vacancy in Heidelberg:

POSTDOCTORAL POSITION (ref. 01/PD/10)

The person appointed will work in the group of Tommy Nilsson on the mechanism of protein sorting in the secretory pathway. The current work includes addressing the dynamic aspects of the Golgi apparatus using live cell imaging techniques combined with a biochemical and molecular approach to address mechanistic aspects of protein sorting and COPI vesicle biogenesis. The position is available immediately and for a minimum of 2 years.

Informal inquiries can be made to:
nilsson@embl-heidelberg.de

Please submit a full CV, summary of past research experience and names and addresses of two referees quoting ref. no. 01/PD/10 to:

**The Personnel Section, EMBL, Postfach 10.2209,
D-69012 Heidelberg, Germany. Fax: +49 6221 387555.
email: jobs@embl-heidelberg.de**

ASSISTANT PROFESSOR POSITIONS AS BIRCWH SCHOLARS

(Building Interdisciplinary Research Careers in Women's Health)

NEW JERSEY MEDICAL SCHOOL

Department of Obstetrics, Gynecology & Women's Health

Unique Assistant Professor (tenure-track) positions are available for individuals interested in research applicable to women's health. Our NIH funded BIRCWH Career Development Center at New Jersey Medical School in Newark, New Jersey, provides an excellent opportunity for young physicians, fully trained in any discipline, to acquire the skills and experience during protected time (at least 75%) required to become an independently funded investigator in women's health. The Assistant Professor Scholar can spend up to 5 years in this training environment under the supervision of an established, well funded senior investigator, selected by the Scholar, who will function as the Scholar's Mentor. Training in clinical research, basic science research, epidemiological research and/or transitional research are available with some of the nation's most expert scientists and clinical investigators. Additional advanced degrees including the M.P.H. or Ph.D. can be obtained during the course of the program. Women and underrepresented minority individuals are encouraged to apply.

For additional information contact the BIRCWH Program Director: Dr. Laura T. Goldsmith, Professor, Department of Obstetrics, Gynecology & Women's Health, New Jersey Medical School, 185 South Orange Ave., Newark, NJ 07103, Ph: 973-972-5516, Fax: 973-972-4574, E-mail: holmesel@umdnj.edu or visit our website at: <http://www.umdnj.edu/obgynweb/bircwh.htm>



UMDNJ
UNIVERSITY OF MEDICINE &
DENTISTRY OF NEW JERSEY

UMDNJ is an Affirmative Action/Equal Opportunity Employer, M/F/D/V.



**HARVARD UNIVERSITY
BAUER CENTER FOR GENOMICS RESEARCH
FELLOW POSITION**

We are building a community of scholars from many fields, including biology, chemistry, physics, mathematics, computer science and engineering, to work under one roof to advance our understanding of complex biological systems.

If you are an exceptional researcher at the post-doctoral level and are interested in interdisciplinary genomics research, you are encouraged to apply for a Fellow position.

The Bauer Center for Genomics Research (CGR) funds each Fellow, along with a team of 1–2 post-docs or technicians, for 3–5 years to work in one of three general areas: applying genomics techniques to biological problems, developing new experimental methods for collecting genome-wide information, or building new analytical, computational or theoretical tools for analyzing genome-wide data.

We welcome any proposal directed at a system-wide approach to biology. We are particularly interested in fostering small groups of Fellows who will use complementary expertise to attack important biological problems in a collaborative fashion.

For more information, please visit http://cgr.harvard.edu/fellows/fellows_program.html. To apply, please send your c.v. and a few pages describing your proposed research to: **Laura Garwin, Director of Research Affairs, Bauer Center for Genomics Research, 16 Divinity Avenue, Cambridge MA 02138, USA**, or email them to lgarwin@cgr.harvard.edu. Please also arrange for three letters of reference to be sent.

Harvard University is an Affirmative Action, Equal Opportunity Employer.

**Head, Biochemistry and
Molecular Biology**

Oklahoma State University, a modern, comprehensive, land-grant university, seeks an individual with a vision of the future to head its Department of Biochemistry and Molecular Biology (<http://biochem.okstate.edu>). The vigorous department with 14 collegial tenure-track faculty operates popular B.S., M.S. and Ph.D. programs and researches varied aspects of the molecular basis of life relevant to both agriculture and human health. The Head is administratively responsible to the Dean and Director of the Division of Agricultural Sciences and Natural Resources. The successful candidate is expected to have administrative skills and a record of outstanding scholarly achievements in teaching and research. Nominations are encouraged. Review of applications will begin January 15, 2002. Applicants should submit a curriculum vitae and a letter of application (explaining interest in the position, qualifications, leadership and administrative philosophy, and suitability for the position) and names and contact information for five references to: **Ulrich Melcher (Chair, Search and Screening Committee), Department of Biochemistry & Molecular Biology, 246 NRC, Oklahoma State University, Stillwater, OK 74078-3035.**

Oklahoma State University is an Affirmative Action/Equal Opportunity Employer committed to multicultural diversity.



**Juvenile
Diabetes
Research
Foundation
International**

dedicated to finding a cure

The Juvenile Diabetes Research Foundation International (JDRF), the world's leading non-profit, non-governmental funder of diabetes research (up to \$130 million in current fiscal year), is seeking to fill the following position.

Scientific Program Manager

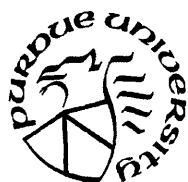
will play an essential role in carrying out JDRF's research grant program, training grant program, and implementing partnerships with governments and industry. Additional responsibilities include helping to determine program priorities and tracking/ analyzing/ evaluating the Foundation's research activities. Will coordinate committees and research collaborations among institutions. Will help supervise the grant administration process. Ph.D., M.D. or equivalent degree in biological/biomedical sciences, such as molecular biology, genetics, immunology, biochemistry, or related areas. Postdoctoral experience or equivalent preferred. Excellent writing, verbal, and interpersonal skills are essential. Some travel required.

Please submit resume to:

Juvenile Diabetes Research Foundation International

Attn: Human Resources-SM, 120 Wall Street, New York, NY 10005-4001

Fax: 212-785-9595 EOE M/F/D/V



FACULTY POSITIONS

Molecular Mechanisms and Targets for Cancer Therapies

PURDUE CANCER CENTER

As part of a campus-wide expansion in basic cancer research, the NCI-designated Cancer Center at Purdue University and the Walther Cancer Institute announce the availability of four tenure-track faculty positions to augment a core group of highly interactive, interdisciplinary scientists targeting the interface between the biology and chemistry of cancer. Positions are available at all levels, and applicants must have a Ph.D. or equivalent degree and relevant postdoctoral experience. Candidates are sought from the biological, biochemical, chemical and engineering sciences in the areas of cancer proteomics; molecular and cellular signaling; design, synthesis and chemical biology of novel compounds; mechanism-based array technologies; and chemical, biological and spectroscopic imaging. Successful candidates will select an academic appointment from one of the participating departments on campus.* Applicants should submit a curriculum vitae, a description of future research plans, and the names and addresses of three references to: **Richard F. Borch, M.D., Ph.D., Director, Purdue Cancer Center, Hansen Life Sciences Research Building, Purdue University, West Lafayette, IN 47907.** Review of candidates will begin on December 1, 2001 and will continue until the positions are filled.

*Departments include: Basic Medical Sciences, Biochemistry, Biological Sciences, Biomedical Engineering, Chemistry, Foods & Nutrition, Medicinal Chemistry & Molecular Pharmacology, Pathobiology, and Statistics.

Purdue University is an Equal Opportunity/Affirmative Action Employer. Women, minorities and dual career couples are especially encouraged to apply.



MOLECULAR EVOLUTIONARY POPULATION BIOLOGIST

The University at Albany, Department of Biological Sciences invites applications for a tenure-track faculty position at the rank of **Assistant/Associate Professor**. The successful candidate will be expected to establish an externally funded research program that uses molecular genetics/genomics to study fundamental evolutionary or ecological questions, preferably at the population level, dealing with microbes, plants or animals. Participation in graduate and undergraduate teaching will be primarily in evolution and population genetics. The candidate will be able to interact with a diverse group of biologists working in ecology, animal behavior, and evolution, as well as molecular, cellular and developmental biology, and to be a member of the Center for Comparative Functional Genomics. Excellent core research facilities are available. Salary and set-up package will be competitive. Position pending budget approval.

Start date is Fall 2002 or January 2003. To assure full consideration, all application materials should be submitted before January 18, 2002. However, applications will be accepted until the position is filled. For further information consult <http://www.albany.edu/biology/>.

Applicants should send a letter of intent, curriculum vitae, statement of research plans, and arrange for at least three reference letters to be sent to:

Dr. Caro-Beth Stewart
Chairperson, Search Committee
Department of Biological Sciences
University at Albany, State University of New York
Albany, NY 12222 USA

The University at Albany, SUNY, is an EO/AA/IRCA/ADA Employer.

BIOLOGY SCIENTIST POSITIONS



Cumbre Inc. is a Dallas based biopharmaceutical company focused on the discovery and development of novel classes of antibacterial and antifungal agents, and was formed as a spin-off from Tularik Inc. (www.tularik.com & NASDAQ:TLRK).

We currently have a number of openings for Ph.D. level Scientists to engage in research and development programs focused on antimicrobial target validation, assay development, and mechanism of action studies for exploratory leads resulting from high throughput screening efforts. Ideal candidates will be creative and flexible scientists with significant past experience in biochemical studies of enzymes and their inhibitors, and/or molecular genetic studies of pathogenic bacteria or fungi.

Cumbre offers a competitive salary and benefits package, including participation in a company stock incentive plan. For consideration, please reference Job Code SL001 and send a cover letter and resume to:

Cumbre, Inc.
1502 Viceroy Drive
Dallas, Texas 75235-2304.
E-mail: jobs@cumbre.net
Fax: 214-631-4710
Home page: www.cumbre.net

Cumbre is an Equal Opportunity Employer

nature immunology

seeks an ASSISTANT EDITOR

Bored with the bench, but thrilled with the science? After our successful launch in July 2000, we at Nature Immunology are expanding our staff and offer an exciting opportunity to an immunologist interested in entering the editorial world. Nature Immunology needs an Assistant Editor to continue to develop all aspects of the journal. Assistant Editors are vital members of the Nature Immunology team, responsible for peer review and manuscript selection; commissioning of Reviews, Commentaries and News & Views; writing and editing. Close ties with the immunology community will be forged and maintained through travel to international meetings and visits to individual laboratories. Applicants should have a Ph.D. and post-doctoral experience in immunology, an intense curiosity and broad understanding of the field. The ideal candidate will have an enthusiasm for, and commitment to, the communication of science.

Based in our central New York City office, the *Nature Immunology* team is part of a dynamic editorial and publishing environment that includes *Nature Genetics*, *Nature Structural Biology*, *Nature Medicine*, *Nature Biotechnology* and *Nature Neuroscience*. The successful applicant will also enjoy a close working relationship with the London-based *Nature* and *Nature Cell Biology* teams.

To apply, please submit a CV, a short (700-900 words) News & Views-style article on an exciting and newsworthy recent development in any area of immunology and a short cover letter explaining your interest in the post to Dr. Linda J. Miller, Editor, *Nature Immunology*, Nature America, 345 Park Avenue South, New York, NY 10010 (fax 212.696.9594; email admin@natureny.com) to arrive as soon as possible and **not later than 17 December 2001.**



FLORIDA ATLANTIC UNIVERSITY

**Dean, Charles E. Schmidt
College of Science**

Florida Atlantic University (FAU) invites nominations and applications for the position of Dean of the College of Science. FAU seeks a visionary who demonstrates a strong commitment to excellence in teaching, research and service.

FAU, a member of the Florida State University System, is a rapidly growing institution with a current enrollment of more than 23,000 students on seven campuses in Palm Beach, Broward and St. Lucie Counties. The Charles E. Schmidt College of Science, housed on FAU's original campus in Boca Raton, continues to open new pathways to knowledge and discovery: through its focus on protecting and restoring the natural environment, with studies in geography, geology and the natural sciences that tap into South Florida's ocean and ecosystem; through expanding programs in the life sciences that have brought about a unique partnership with the University of Miami's School of Medicine and the building of a new biomedical center on the Boca Raton campus; through the College's Center for Complex Systems and Brain Science, The Center for Molecular Biology, and The Center for Geo-Information Science. College departments include Biological Sciences, Biomedical Sciences, Chemistry and Biochemistry, Environmental Sciences, Geography and Geology, Mathematical Sciences, Physics and Psychology.

Requirements for this position include a doctoral degree in a scientific discipline and administrative experience at the department chair level or higher. Desired attributes include strong communication, leadership and collaborative skills; fiscal experience; a national and international reputation in research; and a proven track record of significant external funding. The Dean reports to the University Provost and Chief Academic Officer. Salary is competitive with excellent fringe benefits. Applications must be postmarked no later than January 8, 2002 and will be subject to the Florida Public Records Law. Additional information on FAU and the College of Science can be found at:

<http://www.science.fau.edu/>

Applications, including a letter responding to position criteria and complete curriculum vitae, along with the names, addresses and telephone numbers of 3-5 references, should be sent to: **University Provost's Office, Attn: Debra Kain, Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431-0991.** For more information, contact search committee chair **Dr. Larry F. Lemanski, Vice President for Research, at 561-297-0268.**

*Florida Atlantic University is an
Equal Opportunity/Access/
Affirmative Action Institution*



POSTDOCTORAL POSITIONS

Mayo Clinic Molecular Medicine Program
Rochester, MN

Mayo Clinic Rochester has established a Molecular Medicine Program with several groups working on gene therapy using different viral systems. Postdoctoral positions are available immediately in the laboratory of Mark J. Federspiel, Ph.D., a faculty member of the Molecular Medicine Program. Research projects are available in two areas. One area is focused on fundamental studies of the cellular entry mechanisms of a model retrovirus, avian leukosis virus, and include structure/function analysis of the envelope glycoprotein/receptor interactions and the evolution of host range. Some of our current research is described in recent publications [*J. Virol.* 75:726-737 (2001); *Virology* 273:111-123 (2000); *J. Virol.* 73:10051-10060 (1999)]. A second research area is focused on developing a retroviral polypeptide display technology, similar to phage display, and using this technology to identify unique ligands in tumors.

Applicants must have a recent Ph.D. degree, be highly motivated, and be proficient in advanced molecular biological and tissue culture techniques. Research experience in virology, especially retrovirology, is highly desirable. Salary will be determined by the successful candidate's experience. There is also an attractive benefit package. Mayo Clinic Rochester is a not-for-profit organization. Mayo integrates research with clinical practice and education in a multi-campus environment. To apply, send a current curriculum vitae and bibliography, a summary of past research accomplishments, and the names and contact details of three references to:

Mark J. Federspiel, Ph.D.

Mayo Clinic Rochester

Molecular Medicine Program

Guggenheim 18

200 First Street, SW

Rochester, MN 55905

E-mail: federspiel.mark@mayo.edu

See also: <http://www.mayo.edu/research/mmp/>

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



The Danish Multiple Sclerosis Society

Research into the cause and treatment of multiple sclerosis could be significantly advanced by the recently established \$5 million international "Sylvia Lawry Centre for Multiple Sclerosis Research (SLCMSR)" which aims at making drug trials quicker, less costly and more effective. Therefore, alternative approaches to placebo controlled trials will be developed, where the proper identification of relevant factors and the prediction of the future course of the disease are essential. The Centre will use cutting-edge technology to analyse data from past trials to create "virtual" placebo patient groups. The initiative and its funding are being led by the Multiple Sclerosis International Federation (MSIF), the umbrella organisation for 38 national MS Societies. The new data centre will be hosted at the Institute for Medical Statistics and Epidemiology (IMSE) at the Technical University of Munich. Munich won the bid in the face of stiff competition from other international institutions as a joint proposal of the IMSE and its spin-off company, Trium Analysis Online. IMSE and Trium jointly operate the Sylvia Lawry Centre for Multiple Sclerosis Research.

In support of the SLCMSR, the MS Society of Denmark has funded the following international fellowship open to any nationality.

The Sylvia Lawry Centre for Multiple Sclerosis Research at the Technical University of Munich, Germany, is seeking applicants for an

International Epidemiology Fellowship of the MS Society of Denmark

to join one of the most exciting new MS research projects. The fellowship is based in Munich, Germany, and is available from January 2002.

The successful applicant has an ability to interact and collaborate with a multidisciplinary, international team of researchers, demonstrates flexible and responsive capabilities, and deals creatively with a wide array of technical and methodological issues in MS research. Requirements include experience in epidemiology. Additional experience in medical statistics, trial design, prognostic factors, longitudinal data analysis, meta-analysis and/or medical fields such as neurology and radiology is an advantage.

The university rank of the successful applicant is commensurate with a post-doctoral fellowship. The salary and social benefits conform to the provisions of the German Federal Agreement for Public Employees (BAT). Two identical copies of the application should be submitted before December 1, 2001, to:

Prof. Dr. Albert Gjedde, Chairman, Research Committee, c/o MS Society of Denmark, Mosedalvej 15, DK-2500 Valby, Denmark, Tel.: +45 8949 3081, Fax: +45 8949 3020, albert@pet.auh.dk

Prof. Dr. Albrecht Neiss, Scientific Director SLCMSR, c/o IMSE, TU Muenchen, Ismaninger Str. 22, 81675 Munich, Germany, Tel: +49 89 4140 4320, Fax: +49 89 4140 4850, albrecht.neiss@imse.med.tu-muenchen.de

The Technical University of Munich is strongly committed to equal opportunity and especially welcomes applications from women, persons with disabilities and others who may contribute to further diversification of ideas. (NM769)R

POSITIONS OPEN

The University of Mississippi, Department of Biology, invites applications for an **ASSISTANT PROFESSOR** (tenure track). The incumbent will develop an extramurally funded research program in an area complementary to one or more of the research areas represented in the Department (including ecology, evolutionary biology, conservation, microbiology, genetics, behavior, systematics) and teach undergraduate and graduate courses in specialty and introductory courses. This is a new position created in part to provide additional creative energy to the continued development of the large freshman biology program. The incumbent must demonstrate an interest in providing service in this effort. Appointment requires a Ph.D. in biological sciences or related discipline and demonstrated excellence in research and teaching. Submit (1) statement of research interests, (2) statement of teaching philosophy including comments on philosophy of freshman education, (3) curriculum vitae, (4) reprints of up to five recent published or submitted papers, (5) evidence of teaching effectiveness, and (6) names and postal and e-mail addresses of four references to: **Dr. Marjorie Holland, Department of Biology, P.O. Box 1848, University of Mississippi, University, MS 38677-1848. Website: <http://www.olemiss.edu>.** Materials may be submitted electronically to e-mail: biology@olemiss.edu. Positions available spring or fall 2002. Review of applications begins 3 December, 2001, and continues until position is filled. *The University of Mississippi is an Affirmative Action/Americans With Disabilities Act/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.*

ASSISTANT PROFESSOR OF BIOLOGY College of Science Grand Canyon University

The Department of Biology seeks a broadly trained applicant for a tenure-track faculty position. The candidate must have a Ph.D. and a strong commitment to undergraduate teaching and advising. Teaching duties include introductory anatomy and physiology, pathophysiology, and human gross dissection. Salary commensurate with qualifications. Applicants should forward curriculum vitae, a complete GCU application form (available upon request or downloadable at [website: \[http://www.grandcanyon.edu/fac_app.htm\]\(http://www.grandcanyon.edu/fac_app.htm\)](http://www.grandcanyon.edu/fac_app.htm)) and three letters of recommendation to: **Dr. Leanna Hall, Provost and Vice President for Academic Affairs, Grand Canyon University, 3300 West Camelback Road, Phoenix, AZ 85017. Telephone: 602-589-2450. Grand Canyon University is an Equal Opportunity Employer.**

Arizona State University seeks tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** in terrestrial biogeochemistry to participate in an innovative Ph.D. program in urban ecology and to collaborate with Natural and Social Scientists in a long-term study of urban ecosystems. Begin August 16, 2002; level commensurate with experience. Affiliation with Biology, Geological Sciences, Microbiology, and/or Plant Biology Department(s). Two applicants wishing to be considered for a single shared appointment will be considered. For complete application/qualification information, see [website: <http://www.asu.edu/ces/IGERT/TerrBiogeochemistryAnn.htm>](http://www.asu.edu/ces/IGERT/TerrBiogeochemistryAnn.htm). Initial deadline is January 15, 2002; weekly thereafter until filled. *Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR, BIOLOGY Two Positions

The Biology Department at Framingham State College seeks applicants for two tenure-track positions at the Assistant Professor level for the fall semester 2002. Position One: neurobiology or psychobiology. Position Two: general biology and teacher training. For complete details, please view our [website: <http://www.frc.mass.edu/rbeckwi/jobs.htm>](http://www.frc.mass.edu/rbeckwi/jobs.htm). Or write to: **Dr. Richard Beckwith, Chair, Department of Biology, Framingham State College, P.O. Box 9101, Framingham, MA 01701-9101. E-mail: rbeckwi@frc.mass.edu.**

POSITIONS OPEN



FACULTY POSITIONS Avian/Poultry Disease Research

The Department of Pathobiology at Texas A&M University invites applications for faculty positions that will contribute to maintaining the University as a major center for interdisciplinary research and teaching in avian and poultry diseases. We seek two avian disease experts. One position will focus primarily on basic research while the other will focus on applied research. Both positions will be predominantly research appointments with some teaching or service responsibilities. Applicants should possess a D.V.M./Ph.D. or Ph.D. with appropriate postdoctoral training. Successful applicants must have outstanding research potential or significant accomplishments in an area of avian infectious or metabolic disease, and both will be expected to establish and maintain a vigorous, extramurally funded research program. These positions are joint appointments with the Department of Poultry Science. Successful applicants may teach aspects of avian diseases to undergraduate, professional, or graduate students. Additional details about the Department of Pathobiology and Texas A&M University can be obtained from the Department's [website: <http://vtpb-www.cvm.tamu.edu/>](http://vtpb-www.cvm.tamu.edu/). A letter of application with curriculum vitae, reprints of three recent publications, and contact information for three references should be sent to: **Chair, Avian Disease Search Committee, Department of Pathobiology, Texas Veterinary Medical Center, Texas A&M University, College Station, TX 77843-4467.** Applications will be received until the position is filled. *Texas A&M is an Equal Opportunity Employer committed to excellence through diversity.*

Medic Group, a diagnostics company dedicated to early-stage detection of cancerous and other diseases, is seeking a **CHIEF TECHNOLOGY OFFICER** to lead its product development efforts in biomedical detection devices. The dynamic and creative person we hire will manage and provide oversight to the company's research efforts, assist with development of FDA regulatory documentation, and interact with other global regulatory authorities.

The successful candidate should have proven background in antibody, protein, and ELISA technology. A Ph.D. in biochemistry/cell biology/protein chemistry with more than five years of experience plus a supervisory background are required. If interested, e-mail your curriculum vitae and cover letter to: **e-mail: dpotratz@medicgroup.com** by December 30, 2001, or mail it to: **Dean C. Potratz, Medic Group, 3629 Highway P, Jackson, WI 53037. Medic Group is an Equal Opportunity Employer with an attractive salary and benefit package.**

PHYSIOLOGIST

The Department of Biological Sciences at Marquette University has a tenure-track **ASSISTANT PROFESSOR** position available August 16, 2002, for a Ph.D. with postdoctoral experience. The successful applicant is expected to develop an extramurally funded research program and to teach a one-semester undergraduate laboratory course in either neurobiology or physiology annually and a graduate course or seminar each year in the applicant's area of expertise. The successful candidate's interests should complement the existing strengths of the Department ([website: <http://biology.marquette.edu>](http://biology.marquette.edu)). Areas of expertise desired include cellular and molecular approaches to neurobiology or muscle biology. Send curriculum vitae; statement of research interests; and three letters of reference by January 15, 2002, to: **Dr. Brian Unsworth, Chair, Department of Biology, WLS 112B, P.O. Box 1881, Milwaukee, WI 53201-1881.**

POSITIONS OPEN

TENURE-TRACK FACULTY POSITION ASSISTANT PROFESSOR OF BIOLOGY

The candidate must have a Ph.D. and be a Eukaryotic Cell Biologist using molecular techniques who is able to contribute to a diverse array of courses, which may include biology of the cell, cell physiology, molecular biology, genetic engineering, recombinant DNA techniques, and an advanced specialty course. Candidates must have a strong commitment to teaching at the undergraduate and M.S. levels and participate in introductory courses. Candidates must have a record of published research and show potential for developing and sustaining an independent, externally funded research program involving students. Duties also include advising students, participating in curricular development and program evaluation, engaging in professionally recognized scholarly activities, participating in other courses as appropriate to the applicant's education and experience, and interacting as appropriate with the community. Submit a letter of application, curriculum vitae, official transcripts from both undergraduate and graduate education, a detailed statement of research and teaching interests, and three letters of recommendation to: **Dr. Jeffrey Thompson, Chair, Department of Biology, Attention: Cell Biology Search, California State University, 5500 University Parkway, San Bernardino, CA 92407-2397. Telephone: 909-880-5305; FAX: 909-880-7038; e-mail: jthompso@csusb.edu.** Deadline is December 30, 2001, or until filled. For more information about the position, University, and Department, please see our [website: <http://biology.csusb.edu>](http://biology.csusb.edu). *California State University, San Bernardino, is an Equal Opportunity Employer committed to a diversified workforce.*

ASSISTANT/ASSOCIATE PROFESSOR OF MICROBIOLOGY

The Department of Biochemistry and Microbiology of Oklahoma State University Center for Health Sciences, College of Osteopathic Medicine, invites applications for a tenure-track faculty position at the Assistant/Associate Professor level. Rank and salary are commensurate with experience. Position is for a full-time, 12-month appointment in an expanding division of basic sciences. Candidates must possess Doctoral degree and postdoctoral research experience in immunology and/or related molecular biology. Knowledge of medical microbiology is desirable but not required. Research facilities, start-up funds, competitive salary, and environment for professional development will be provided. Selected individual must have commitment to establishing a successful, externally funded research program. The successful candidate will be expected to participate in team teaching in a medical microbiology and immunology course to medical students, develop a graduate course in area of expertise, and to participate in training of graduate students. Review of applications will begin January 1, 2002. Applications are accepted until the position is filled. Candidate should send a letter of application, statement of research interest, curriculum vitae, and the names and addresses of three to five professional references to: **Human Resources, OSU-COM, 1111 West 17th Street, Tulsa, OK 74107-1898.** *Oklahoma State University is an Equal Opportunity/Affirmative Action Employer. Must be eligible for employment under Immigration Reform and Control Act.*

Arizona State University seeks tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** in environmental economics to participate in an innovative Ph.D. program in urban ecology and to collaborate with Social and Natural Scientists in a long-term study of urban ecosystems. Begin August 16, 2002; level commensurate with experience. Affiliation with Anthropology, Biology, Geography, and/or Sociology Departments. Two applicants wishing to be considered for a single shared appointment will be considered. For complete application/qualification information, see [website: <http://www.asu.edu/ces/IGERT/EnviroEconomicsAnn.htm>](http://www.asu.edu/ces/IGERT/EnviroEconomicsAnn.htm). Initial deadline is January 15, 2002, or weekly thereafter until filled. *Affirmative Action/Equal Opportunity Employer.*

Opportunities



Research Associate

Children's Hospital Medical Center, Cincinnati, Ohio, seeks two research associates with M.D./Ph.D or Ph.D degree. The first position will lead an academic-industry collaborative effort to develop liver-based biological systems for studies of drug metabolism. Responsibilities will include genetic engineering of primary hepatocytes injury. The second position will be responsible for gene-targeted mice in studies of liver repair. The successful candidates will work in a dynamic research environment and interact with both academic and industry-based scientists. Previous experience with recombinant DNA, cell biology, and transgenic mouse technology is strongly desired. Salary is commensurate with training and experience.

To Apply

Submit CV and three letters of recommendation to:

Jorge A. Bezerra, M.D.
Division of Pediatric Gastroenterology,
Hepatology and Nutrition
Laboratory of GI and Liver research
Children's Hospital Medical Center
3333 Burnet Avenue
Cincinnati, Ohio 45229-3039
(jorge.bezerra@chmcc.org)

Visit our website at www.cincinnatichildrens.org. Children's Hospital Medical Center is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.

ICOS ¹ biopharmaceutical company worth watching.

ICOS has spent a decade building a world-class research and development organization with multiple late-stage products. We are now on the verge of realizing the full commercial potential of our proprietary products. Our rapidly advancing clinical activities and expanding partnerships offer an environment of accelerated development and new opportunities at our Seattle-area location.

STAFF SCIENTIST

Using your strong team skills, you will work in the Infectious Disease group seeking novel strategies for attenuating bacterial, fungal or viral pathogenicity by developing assays to characterize molecular target-specific antiviral compounds and establishing in vitro and in vivo antiviral susceptibility tests. Requires a PhD and 1-3 years postdoctoral or industry experience. Demonstrated knowledge of molecular biology, assay development and cellular microbiology and excellent communication skills are essential. Expertise in protein biochemistry, and animal models of viral or infectious disease is preferred.

For immediate consideration, please send your scannable resume, indicating Source Code #0964YL0901, to: ICOS Corporation, c/o Resume Processing Service, PO Box 375, Burlington, MA 01803. Email: icos@rpc.webhire.com (please indicate Source Code # only in subject line). Fax: 800-283-8271 (Source Code # must appear on cover letter). EOE. You may also see our job postings at www.icos.com.

icos

Mayo Clinic

Section of Scientific Publications

Manuscript Editor Position

The Mayo Foundation and Mayo Clinic Section of Scientific Publications seeks a senior full-time manuscript editor at Rochester, MN, to fill a position resulting from a retirement. Candidates should have significant experience in editing peer-reviewed manuscripts, book chapters and NIH grants. A strong background in the sciences is desirable. This position supplements the current 8 biomedical editors and 24 editorial assistants and proofreaders. The Mayo Clinic Section of Scientific Publications is one of the largest academic departments of biomedical editing in the United States. Candidates will be expected to furnish examples of their work so that the edited manuscript can be compared with the unedited copy. Successful applicants will hold a faculty position at Mayo Medical School (level commensurate with experience). Excellent salary and benefits.

Send CV to:

Joseph G. Murphy, M.D., FRCPI
Chair, Section of
Scientific Publications
Mayo Foundation and Mayo Clinic
Plummer Building, S-10
200 First Street SW,
Rochester, MN 55905

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



University of Missouri Proteomics Center

Associate Director: The University of Missouri is seeking a scientist to manage a state-of-the-art Proteomics Center. The Associate Director will be involved in developing a new facility that utilizes MS based methodologies to provide structural characterization of proteins and peptides. Responsibilities include operation of the facility and oversight of the Proteomics Center staff. The Associate Director should hold a Ph.D. in analytical biochemistry or the equivalent. Three years experience with mass spectrometry of proteins and peptides and knowledge of cLC-MS/MS and high-resolution protein separation is desired.

Mass Spectrometry Specialist: Requires a M.S. or Ph.D., depending on experience in mass spectrometry or related discipline. Candidates should have one to two years experience with mass spectrometry of proteins and peptides by MALDI-TOF MS and/or LC-MS/MS. One or more positions are available.

Protein Separation Specialist: Requires a B.S. or M.S., depending on experience in protein biochemistry or related discipline. At least two years experience with solubilization of protein samples and protein electrophoresis is desired.

Send curriculum vitae and contact information of three references to: ProteomicsCenter@missouri.edu or Proteomics Center, Division of Biological Sciences, University of Missouri, Columbia, MO 65211-7400. The review of applications will begin December 1, 2001 and continue until the positions are filled. To request ADA accommodations contact Robin Brueckner at (573) 882-6650 or by e-mail at BruecknerR@missouri.edu.

MU is an Equal Opportunity-
Affirmative Action Employer.



POSITIONS OPEN

ADELPHI UNIVERSITY

Adelphi University is a diverse, Doctoral-level, private university comprising seven schools: College of Arts and Sciences; Honors College; Derner Institute of Advanced Psychological Studies; and the Schools of Business, Education, Nursing, and Social Work. Adelphi enrolls over 6,700 students in more than 100 baccalaureate, Master's, Doctoral, Postdoctoral, and certificate programs. Founded in 1896, Adelphi University is the oldest private university on Long Island. The main campus is located on a beautiful, 75-acre campus in historic Garden City, New York, 45 minutes from New York City.

As part of its program of continued growth and development, Adelphi University is expanding its tenured faculty ranks and has the following opening in our Biology Department within the College of Arts and Sciences.

BIOLOGY: ASSISTANT PROFESSOR (tenure track, fall 2002)

Primary teaching/research expertise in the fields of microbiology and biochemistry. Candidates will possess a Ph.D. and have strong research and teaching credentials. Teaching responsibilities may include courses for majors, Master's students, and nonmajors. The successful candidate will be expected to develop an active research program involving undergraduates and Master's students. Please submit curriculum vitae, statement describing accomplishments that speak to the above criteria, and the names of three references to: **Dr. J. Dooley, Chair, Biology Department, Adelphi University, Garden City, NY 11530.** Evaluation of candidates will begin immediately and will close on February 1, 2002.

Adelphi is committed to building a diverse faculty and strongly encourages applications from minority and women candidates. Adelphi University is an Equal Opportunity Employer.

Erskine College invites applications for a tenure-track position in biology. The position, which is to begin in August 2002, will most likely be filled at the **ASSISTANT or ASSOCIATE PROFESSOR** level. We seek a broadly trained Biologist with research and teaching interests in organismal biology. Teaching responsibilities include concepts of cellular biology (introductory majors course), lower-division courses appropriate for majors and nonmajors, and upper-division courses in areas of interest. Research involving undergraduates is encouraged and an ability to teach courses in plant biology, human anatomy, or evolution is desirable. Additional duties include advising and college service. Qualifications: Ph.D. by time of appointment, demonstrated experience in college teaching and instructional technology, and demonstrable enthusiasm for teaching in an undergraduate liberal arts environment. Salary is negotiable. Erskine College, the four-year, liberal arts college of the Associate Reformed Presbyterian Church, is a Carnegie baccalaureate liberal arts institution. A new science center was completed in 1999. For more information on the position, the Department, and the institution, contact the **Search Committee Chairman; e-mail: dritland@erskine.edu.** Send letter of application with research and teaching interests; curriculum vitae; and the names, telephone numbers, and e-mail addresses of three references to: **Donald Weatherman, Vice President and Dean, Erskine College, P.O. Box 248, Due West, SC 29639. Website: http://www.erskine.edu.** We will begin screening applications in November 2001 and will continue until the position is filled. *Erskine is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION to study tumor angiogenesis factors including regulation of their expression, the mechanism of their actions on endothelial cells, and the design and evaluation of novel tumor angiogenesis inhibitors. Experience in cell and molecular biology or pharmacology preferred. Send curriculum vitae and names of three references to: **Dr. Edward L. Schwartz, Department of Oncology, Albert Einstein Cancer Center, 111 East 210th Street, Bronx, NY 10467. E-mail: eschwartz@aecom.yu.edu.**

POSITIONS OPEN

FACULTY POSITION NYU CANCER INSTITUTE New York University School of Medicine Epidemiology and Prevention Program

The Cancer Institute of the New York University School of Medicine is seeking candidates for a tenured/tenure-track faculty position to strengthen its Program in Cancer Epidemiology and Prevention. The successful candidate will have a record of productive accomplishment in molecular epidemiology and human genetics, direct experience with genotype analysis and analysis of other genetic markers relevant to the Program, and a strong commitment to combining laboratory work with population-based research. He/she will be expected to build on an independent research program in areas pertinent to human susceptibility to cancer and genetic factors influencing the progression of cancer and response to therapeutic agents and to promote extensive interdisciplinary collaborations within and outside of the institution. Collaborative research opportunities and access to substantial resources of biologic material and information are available within the NYU School of Medicine.

Applicants should include curriculum vitae, a statement of research interests, two to three reprints or preprints, and the names of three individuals willing to provide letters of reference. Address all inquiries and correspondence to: **Dr. Paolo Toniolo, Molecular Epidemiology Search Committee, Department of Obstetrics/Gynecology, New York University School of Medicine, 550 First Avenue, Room NB9E2, New York, NY 10016. Telephone: 212-263-7792; e-mail: paolo.toniolo@med.nyu.edu.**

Review of applications will start immediately and will continue until a suitable candidate is identified. *New York University School of Medicine is an Affirmative Action/Equal Opportunity Employer.*

RESEARCH CONSULTANT Fish and Wildlife Design

Columbia Basin Research is a unit in the nationally ranked School of Aquatic and Fishery Sciences at the University of Washington. We work on quantifying the effects of regional development on fish and wildlife populations in the Pacific Northwest.

Description: Develop and apply statistical methods for the analysis of fish and wildlife populations. Provide support to agencies in designing studies, analyzing survival processes, and improving monitoring and evaluation capabilities.

For a full job description, visit our website: <http://www.washington.edu/admin/employment>.

Requirements: Ph.D. in statistics or biometry with experience in the design and analysis of fish and wildlife investigations.

Apply: Send résumé, cover letter summarizing research experience, and two current letters of reference to: **Gary Pedersen, University of Washington, Box 355020, Seattle, WA 98195-5020.** *The University of Washington is an Equal Opportunity/Affirmative Action Employer.*

SENIOR ECOLOGIST

The Harvard Forest is seeking a Scientist with a strong research and publication record to develop a research program on the ecology and conservation of ecosystems and landscapes in New England. Although the specific research area is open, applicant interests should be complementary to existing LTER, NIGEC, and related studies and should build on established archival, land, and research bases developed through a century of study. Interested Scientists should carefully review website: <http://www.lternet.edu/hfr/>; send an application consisting of curriculum vitae and cover letter; and have three letters of recommendation forwarded to: **Harvard Forest, P.O. Box 68, 324 North Main Street, Petersham, MA 01366, Attention: Senior Ecologist Search Committee** by January 15, 2002. *Harvard University is an Equal Opportunity Employer and applications from women and minorities are strongly encouraged.*

POSITIONS OPEN

SEARLE PROFESSOR OF MEDICINAL CHEMISTRY University of Michigan

The Department of Medicinal Chemistry at the University of Michigan solicits applications for the John Gideon Searle Professor of Medicinal Chemistry. This prestigious, endowed Chair has a history of supporting internationally known scholars in the pharmaceutical sciences. The Interdepartmental Program in Medicinal Chemistry at Michigan has long been recognized as one of the leading programs in the country. The successful candidate will be expected to provide leadership to build on this tradition. This program involves faculty and students from not only the Department of Medicinal Chemistry in the college of Pharmacy but also departments in the College of Literature, Science, and the Arts and the Medical School. Potential areas of research may include but are not limited to synthetic organic chemistry, mechanistic enzymology, and structural biochemistry, all of which should be focused on exciting medicinal targets and rationales. The successful candidate will be expected to maintain a vigorous, externally funded research program and to participate in teaching programs both at the graduate and undergraduate level. Applications, including curriculum vitae and a list of at least five references, should be sent to: **Professor James K. Coward, Chair, Department of Medicinal Chemistry, University of Michigan, 428 Church Street, Ann Arbor, MI 48109-1065. Website: <http://www.umich.edu/~pharmacy/MedChem/>.** Applications will be reviewed commencing December 1, 2001, and will continue until the position is filled. *The University of Michigan is a nondiscriminatory Affirmative Action Employer.*

ASSISTANT PROFESSOR Department of Biology

Saint Mary's College, a coeducational Catholic institution in the Lasallian tradition located in the California San Francisco Bay area, seeks applications for a tenure-track position as Assistant Professor in the Department of Biology to begin fall semester 2002. The successful candidate will have a Ph.D. degree in developmental biology or population biology/genetics and demonstrated interest in and commitment to undergraduate teaching and research. Preference will be given to individuals with a strong background in organismal biology with special competence in physiology. An important portion of the individual's teaching responsibilities will include organismal biology and an introductory survey course for biology majors as well as introductory human physiology. Applicants should submit a letter of application; curriculum vitae; three letters of reference; and a statement of teaching philosophy and research interests by December 31, 2001, to: **Dr. Fawzia Saeed, Chair, Department of Biology, Attention: Search Committee, P.O. Box 4507, Saint Mary's College, Moraga, CA 94575. Website: <http://www.stmarys-ca.edu>.** *Equal Opportunity Employer.*

RESEARCH CONSULTANT Fish and Wildlife Demographics

Demographics Columbia Basin Research is a unit in the nationally ranked School of Aquatic and Fishery Sciences at the University of Washington. We work on quantifying the effects of regional development on fish and wildlife populations in the Pacific Northwest.

Description: Assess the dynamics of fish and wildlife populations. Evaluate the potential effects of development on the viability and long-term trends of these populations.

Requirements: M.S. in statistics or biometry with experience in the design and analysis of fish and wildlife investigations.

Apply: Send résumé, cover letter summarizing research experience, and two current letters of reference to: **Gary Pedersen, University of Washington, Box 355020, Seattle, WA 98195-5020.** *The University of Washington is an Equal Opportunity/Affirmative Action Employer.*

NEUROSCIENCE AND CELL BIOLOGY

The University of Medicine and Dentistry of New Jersey - Robert Wood Johnson Medical School has tenure-track positions available in neuroscience and cell biology. Investigators with interests in molecular neurobiology, cellular neurobiology or the relationship of biology to behavior and mentation are encouraged to apply. Positions will be available beginning January 2002. **Please submit curriculum vitae, a summary of scientific interests and goals, and three (3) letters of recommendation to: Ira B. Black, M.D., Professor and Chairman, Department of Neuroscience and Cell Biology, UMDNJ - Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5635.** UMDNJ is an Affirmative Action/Equal Opportunity Employer, M/F/D/V, and a member of the University Health System of New Jersey. Regrettably we can respond only to those candidates chosen for an interview.



For more information, visit our website at:
<http://www.umdj.edu/hrweb/>



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

POSTDOCTORAL RESEARCH ASSOCIATE

An NIH/NCI funded postdoctoral position is immediately available to a highly motivated individual to study the p53 tumor suppressor pathway using mouse model systems (Genes Dev 14:2358-2365, 2000; PNAS 98:9330-9335, 2001; Nat Str Biol, In press). Studies will focus on the regulation of cell cycle progression, cell survival and apoptosis, and gene expression. Candidates should possess a Ph.D. (or M.D. with significant research experience) and be familiar with transgenic/knockout mouse models and molecular and cellular biology techniques.

St. Jude Children's Research Hospital offers state-of-the-art research facilities and provides an excellent environment for scientific achievement and career development. This position offers a highly competitive stipend and benefits package including funds for professional travel.

Candidates should send a letter of interest, curriculum vitae and the names of three references to:

Gerard P. Zambetti, Ph.D.
Department of Biochemistry
St. Jude Children's Research Hospital
332 N. Lauderdale
Memphis, TN 38105
Fax: (901) 525-8025

Please include Job Code 3177 on all correspondence.

An Affirmative Action/Equal Opportunity Employer.

Tenure Track Faculty Positions Basic Biomedical Sciences University of South Dakota School of Medicine

The Division of Basic Biomedical Sciences at The University of South Dakota School of Medicine is seeking several faculty members to complement and extend the existing research programs in Cellular and Molecular Biology and Systems Physiology and Structural Biology. The positions are available at the Assistant or Associate Professor level. Applicants must have a Ph.D. and/or M.D. degree, and a minimum a 2-years postdoctoral experience. Rank and salary will be commensurate with qualifications. Positions include competitive start-up funds. The successful candidate should be able to establish a strong, independent, extramurally funded and collaborative research program and will participate in the instruction of graduate, undergraduate and medical students. More information about the research groups can be found at www.usd.edu/biomed/java/research/groups.shtml

Applicants should send curriculum vitae, statement of research plans and three letters of reference to: **Carleen McNeely, Combined Search Committee, Division of Basic Biomedical Sciences, University of South Dakota School of Medicine, 414 East Clark Street, Vermillion, SD 57069.** Consideration of applications will begin December 16, 2001 and will continue until positions are filled.

USD is an Equal Opportunity/Affirmative Action Employer.



TWO POSTDOCTORAL FELLOWS

Mayo Clinic Molecular Medicine Program
Rochester, Minnesota, U.S.A.

Mayo Clinic Rochester has established a Molecular Medicine Program with several groups working on gene therapy using different viral systems. In the group of **Dr. Stephen Russell** motivated individuals are required to continue developing targetable, injectable retroviral, lentiviral and measles virus vectors for the treatment of neoplastic diseases. The primary disease focus of the laboratory is multiple myeloma. Appropriate model systems will be used to study the *in vivo* effects of the new vectors. Experience in molecular biology is required, training in virology is desirable.

Salary will be determined by the successful candidate's experience. There is an attractive benefit package. Mayo Clinic Rochester is a not-for-profit organization. Mayo integrates research with clinical practice and education in a multi-campus environment. For further information please visit <http://www.mayo.edu/research/mmp>.

Applications, including *curriculum vitae*, bibliography and summary of past accomplishments, should be sent to:

Dr. Stephen J. Russell
Mayo Clinic
Molecular Medicine Program
Guggenheim 18
200 First Street SW
Rochester, Minnesota, 55905, USA
Tel: (507) 284-5373
Fax: (507) 284-8388
sjr@mayo.edu

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

POSITIONS OPEN

FACULTY POSITIONS Genetic Epidemiology

The Vanderbilt Program in Human Genetics (VPHG) is expanding and is seeking applications for two tenure-track positions at the **ASSISTANT PROFESSOR** level. The successful applicant will be highly motivated and will develop and maintain an independent research program. Applicants must hold a Doctorate in genetics, biostatistics, epidemiology, or related field and have a strong interest and background in developing and applying methods of disease gene discovery including genetic linkage and/or association analysis. The state-of-the-art facilities support numerous existing and developing collaborative projects, particularly in the areas of neurology, diabetes, and cancer. Generous start-up funds and benefits will be available to the successful applicant.

Applicants should submit curriculum vitae, three reference letters, and a concise statement of research to:

Faculty Search Committee
Program in Human Genetics
Vanderbilt University Medical Center
519 Light Hall
Nashville, TN 37232-0700
E-mail: brooks@phg.mc.vanderbilt.edu
Telephone: 615-343-8555
Website: <http://phg.mc.vanderbilt.edu>

Vanderbilt University is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

CRUSTACEAN PHYSIOLOGIST

The Center of Marine Biotechnology (COMB) of the University of Maryland Biotechnology Institute is readvertising an open position for a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR** in crustacean physiology. The successful candidate is expected to develop a strong, independent research program focused on crustacean physiology and oversee COMB's blue crab (*Callinectes sapidus*) hatchery program. We are particularly interested in individuals who study reproduction, molting, and/or growth. A Ph.D. degree with postdoctoral training in molecular/biochemical approaches would be beneficial and strong record of publication is required. Applicants should submit a letter describing your experience and overall qualifications, specific research interests and future plans, curriculum vitae, and the names and addresses of three (or more) professional references to: **Chairman, Crustacean Physiologist Search Committee, Center of Marine Biotechnology, University of Maryland Biotechnology Institute, 701 East Pratt Street, Baltimore, MD 21202 U.S.A.** Review of applicants will begin on February 1, 2002, and continue until the position is filled. *The University of Maryland Biotechnology Institute is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and candidates with disabilities are encouraged to apply.*

POSTDOCTORAL RESEARCH in NMR. Candidate should have skills in magnetic resonance imaging and spectroscopy, preferably with experience in coil building, pulse sequence implementation, and data analysis. Immediate opening to join prognostic radiology research team as part of new NCI *In Vivo* Cancer Cellular and Molecular Imaging program. New Varian 4.7, 400, and 600 MHz available. Contact: **Ralph Mason, Department of Radiology, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75390-9058. E-mail: ralph.mason@utsouthwestern.edu.** *Equal Opportunity Employer.*

New Jersey City University seeks an Animal Anatomist or Developmental Biologist with expertise in electron microscopy. The tenure-track **ASSISTANT PROFESSOR** will teach undergraduate courses, supervise EM facilities and undergraduate research, write grant proposals, and have a terminal degree by appointment in September 2002. A cover letter, curriculum vitae, three references, and sample of research should be sent to: **Dr. Helen Hoch, Chairperson of Biology, New Jersey City University, Jersey City, NJ 07305** by December 1, 2001.

POSITIONS OPEN

DIRECTOR Ph.D. Program in Environmental Toxicology

The College of Sciences of Southern University at Baton Rouge invites nominations and applications for the position of Director of a newly established Ph.D. program in environmental toxicology. The College seeks a dynamic and resourceful environmental toxicology leader with a strong record of teaching, external grant funding, and outreach. The Director will oversee, coordinate, and provide leadership in curriculum development, instruction, faculty selection and supervision, research, and grant proposal development for program support. Salary, academic rank, and start-up package will be commensurate with the record of the applicant. The starting date for this position is March 4, 2002, or as soon as possible thereafter. The successful applicant will be expected to provide leadership in the development and implementation of a new multidisciplinary environmental toxicology program through interactions with other units within the University. Candidates must possess (1) a Ph.D. in toxicology or a closely related field; (2) national and international reputation for research and scholarship; (3) a vision for excellence in graduate education; (4) strong leadership capabilities; (5) a commitment to the mentoring of faculty members in teaching and the development of strong research programs; (6) the ability to maintain and develop external partnerships with state and federal government agencies, industry, and alumni; and (7) a commitment to the continued development of a diverse workforce and student body. Southern University and A&M College, fully accredited by the Southern Association of Colleges and Schools, is a comprehensive institution offering undergraduate, graduate, professional, and Doctoral degree programs. The main campus, with a yearly average enrollment of approximately 9,000 students, is located in Baton Rouge, Louisiana (the capital of the state), along the banks of the Mississippi River approximately 70 miles northwest of New Orleans. The city offers a rich mix of excellent restaurants and cultural activities. Completed applications must include (1) a letter of application accompanied by curriculum vitae (2) a brief description of research goals for the next five years, (3) a description of primary teaching expertise and interests, (4) a detailed description of leadership experience, and (5) the names of at least five references. Complete application packages must be received by December 31, 2001. Review of applications will begin immediately and will continue until the position is filled. Applications and nominations should be sent to: **Dr. Robert H. Miller, Jr., Chair, Search Committee for Director, Environmental Toxicology Program, Southern University and A&M College, P.O. Box 9440, Baton Rouge, LA 70813.** Inquiries about the position may be addressed to: **Dr. Robert H. Miller, Jr.; e-mail: rhmillerjr@aol.com; Telephone: 225-771-5170; FAX: 225-771-2013.** *Women and minorities are strongly encouraged to apply. Southern University is an Equal Opportunity Employer.*

VIROLOGIST

Location: Mount Pleasant, South Carolina (Charleston area). Job description: position with **POTENTIAL MANAGERIAL DUTIES**. Person will be responsible for culturing and propagation of various strains of HIV, establishing a propagation program, and keeping detailed records of experiments according to QSR guidelines.

Qualifications: The candidate must have broad experience in virology, especially patient HIV propagation and viral purification. Experience should also include culturing techniques and protocol development. At least two years of experience required. Industry experience is a plus. Must be a self-motivated individual who can work both independently and as part of a team.

Please send your résumé to e-mail: admin@gengphar.com. No telephone calls, please.

POSITIONS OPEN

POSTDOCTORAL POSITIONS available to work on a highly interactive program project on the development of novel therapeutics for HIV-1 associated neurologic disease. Openings are available on three research projects. Project One, directed by **Steve Dewhurst** (e-mail: stephen_dewhurst@urmc.rochester.edu), is designed to test the hypothesis that activation of glycogen synthase kinase (GSK)-3 β may contribute to neuronal death and damage in the context of HIV-1 associated neurologic disease. Project Two, directed by **Harris Gelbard** (e-mail: harris_gelbard@urmc.rochester.edu), seeks to target therapeutic strategies to prevent the HIV-1 regulatory protein Tat and other candidate HIV-1 neurotoxins from interfering with dopaminergic neurotransmission. Project Three, directed by **Sanjay Maggirwar** (e-mail: sanjay_maggirwar@urmc.rochester.edu), will exploit the ability of neurotrophic agents to activate nuclear factor kappa B (NF- κ B) in neurons to provide neuroprotection from candidate HIV-1 neurotoxins. Each of the participating laboratories occupies newly constructed research space in a highly collaborative environment, and our work is supported by a newly funded federal grant. Strong training and career development opportunities are available. For more information, please visit our website: <http://www.urmc.rochester.edu/gebs/imv/hivd.htm>. If you wish to apply for one of these positions, please send your curriculum vitae and names of three references to the relevant Project Director at the e-mail address indicated.

The Department of Bioengineering at University of Illinois, Chicago, has immediate openings for **POST-DOCTORAL FELLOWS** and **SPECIALISTS**. Research projects include control of receptor-mediated cell adhesion and migration in 2-D and 3-D models. This project has recently been funded by NIH for five years. We are particularly interested in nanoscale receptor dynamics on the cell surface. Ideal candidates should or will have a Ph.D. in biophysics, bioengineering, or cell biology. Strong background in optics, cell biology, and instrumentation is preferred but not required.

Candidates should send curriculum vitae and a brief summary of their research activities. Please include names of three references. Salary level is negotiable and will depend upon the candidate's experience. Initial appointments are for two years with potential for extension dependent upon performance. Applications will be reviewed until candidates are selected.

Dr. Michael Cho
Department of Bioengineering
University of Illinois, Chicago
851 South Morgan Street (M/C 063)
Chicago, IL 60607
E-mail: mcho@uic.edu

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

BIOINFORMATICS FACULTY POSITIONS

Texas A&M University invites applications for several tenure-track faculty positions in bioinformatics as part of a campuswide initiative in the life sciences. These positions are in or shared among the Departments of Biochemistry and Biophysics, Computer Science, Plant Pathology and Microbiology, and Statistics.

More information is at website: <http://bioinformatics.tamu.edu>. *Texas A&M University is an Affirmative Action/Equal Opportunity Employer committed to diversity.*

POSTDOCTORAL FELLOW in AD research. A position is available to work in immunotherapy (vaccine) for Alzheimer's disease in transgenic mice and neuroimmunological aspects of AD. Candidates must have a Doctoral degree. A strong background in immunology and experience working with transgenic mice are highly desirable. Send curriculum vitae and a cover letter outlining interests and research experience to the attention of: **Juan Troncoso, M.D., Neuropathology, Johns Hopkins University, 720 Rutland Avenue, Ross 558, Baltimore, MD 21205-2196. E-mail: troncoso@jhmi.edu.**

At Perlegen Sciences, we possess a high-density, whole-wafer microarray technology that enables us to compare the entire genomes of thousands of diseased and healthy individuals in order to associate genetic regions with important phenotypes. We invite you to consider joining our unique company as we apply this technology to bring focus to biological research and to accelerate the discovery of drugs and diagnostics. Recently established, we are a well-funded, pre-IPO company that is moving quickly, building a world-class team.

GENETIC EPIDEMIOLOGISTS

We are seeking researchers to participate in new projects aimed at understanding the genetic basis of human complex traits. This will involve the creation of new study designs, evaluation of the merits of existing population studies, and a combination of research, grant writing, and scientific publication. Applicants must hold a PhD in Epidemiology with a specialization in genetic epidemiology. Significant experience in interdisciplinary research and in the design, conduct, analysis, and interpretation of human genetic epidemiologic studies is needed.

Mail, fax, or email your resume, indicating Job Code MCD10, to Perlegen Sciences, 3380 Central Expressway, Santa Clara, CA 95051. Fax to 408-731-5455. Or email to perlegen_HR@perlegen.com. EOE.

For more information on this position and other opportunities, visit our website at

www.perlegen.com



Post-Doctoral Position Rocky Mountain Laboratories, Hamilton, Montana Starting salary \$30,800 to \$46,700: Commensurate with Experience/Education

NATIONAL INSTITUTES OF HEALTH. A postdoctoral position is available to study the interaction of bacterial pathogens with human phagocytic leukocytes. Studies will include proteomics strategies to identify proteins of interest in human phagocytes and bacterial pathogens during the process of phagocytosis. Candidates should have a strong background in Biochemistry with experience in protein analysis. State-of-the-art genomics, proteomics, DNA microarray, microscopy, and sequencing facilities are available to help identify and characterize proteins important in phagocyte-pathogen interactions. The Rocky Mountain Laboratories' research campus includes an excellent electron microscopy facility, and new Biosafety Level 3 and non-human primate facilities. The laboratories are located in a very scenic mountainous area, which supports skiing, climbing, hiking, cycling, and trout fishing. A Ph.D. or M.D. in an appropriate discipline is required.

Please send CV, a 1-2-page career summary including research interests and three letters of reference to:

Frank R. DeLeo, Ph.D.
Rocky Mountain Laboratories
Laboratory of Human Bacterial Pathogenesis
NIAID, NIH
903 South 4th Street
Hamilton, MT 59840

E-mail: fdeleo@niaid.nih.gov

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Wayne State University School of Medicine

Wayne State University School of Medicine is seeking outstanding candidate for a faculty position in applications of mass spectrometry to biological systems. Candidates at all levels of experience will be considered. The successful candidate will have a major role in development of research and curriculum in drug design, development, biological validation and translation to clinical use. Joint tenure-track positions in the Departments of Biochemistry and Molecular Biology and/or Pharmacology and affiliations with the Institute for Drug Design, Barbara Ann Karmanos Cancer Institute and the Institute of Environmental Health Sciences will be considered. We offer an exciting, highly interactive and supportive research environment and a unique opportunity to participate in the development of an integrated program at the interface of biochemistry, pharmacology and clinical sciences. Applicants must have Ph.D. in biochemistry, chemistry, pharmacology or a related field.

Interested parties should send a CV, names and contact information of three references and a statement of research interests and professional goals to: **Dr. David Kessel, Chairman, Faculty Search Committee, Department of Pharmacology, School of Medicine, Wayne State University, 540 E. Canfield, Detroit, MI 48201.**

Wayne State University is an Equal Employment Opportunity/Affirmative Action Employer. Wayne State University - People working together to provide quality service.



FACULTY POSITION DEPARTMENT OF BIOENGINEERING UNIVERSITY OF CALIFORNIA, SAN DIEGO

The Department of Bioengineering of the University of California, San Diego invites applications for **TENURED OR TENURE-TRACK FACULTY POSITIONS** from individuals with expertise in Bioengineering. The successful applicant will be expected to establish a vigorous program of high-quality research that complements existing research activities in the Department in **biomechanics, tissue engineering, molecular and cellular engineering, biotransport, bioinformatics applied to medical problems**, or related areas. The successful candidate will be responsible for teaching bioengineering courses at the undergraduate and graduate levels. The Department enjoys a close collaboration with the School of Medicine, and qualified individuals may receive joint appointments. Salary is commensurate with qualifications based upon UC pay schedules.

Please send a complete biography, samples of publications, and the names of five references to: **David A. Gough, Ph.D., Chair, Department of Bioengineering, University of California San Diego, La Jolla, CA 92093-0412.** Consideration of applicants will begin on December 10, 2001 and continue until the position is filled.

*The University of California San Diego
is an Affirmative Action/
Equal Opportunity Employer.*

POSTDOCTORAL RESEARCHER ASTHMA/RESPIRATORY DISEASE

The Department of Medicine at National Jewish Medical and Research Center has a postdoctoral researcher position available to investigate the many facets of asthma and respiratory disease. Areas of interest include, but are not limited to, the mechanisms of inflammation, the role of infectious agents, and the role of the distal lung in asthma. The successful candidate will have similar interests and possess skills in the following areas: PCR (quantitative and qualitative), immunostaining, cell culture, and morphometric techniques. The position has a competitive salary and benefits. Interested individuals should provide their CV, a statement of interest, and the addresses and email addresses of three individuals familiar with the applicants work to:

Monica Kraft, M.D.
Associate Professor of Medicine
National Jewish Medical and Research Center
1400 Jackson St., J107
Denver, CO 80206 USA
e-mail: kraftm@njc.org
FAX: (303) 398-1476

**NATIONAL
JEWISH**
Medical and Research Center

AA/EOE

POSITIONS OPEN

The Institutes for Pharmaceutical Discovery (IPD) has a dual research focus. The first area is dedicated to discovering and developing new innovative medicines for the treatment of diabetes, its complications, and related disorders. If you are interested in contributing to this research effort, consider the following positions:

RESEARCH SCIENTISTS with a Ph.D. or the equivalent in chemistry, organic chemistry, or related field and experience in the field to be involved in the design and synthesis of biologically active target molecules.

RESEARCH ASSOCIATES in our Molecular Biology Department with M.S. or the equivalent in microbiology, cellular biology, pharmacology, organic chemistry, biochemistry, or a related scientific discipline plus experience in the field. These positions will work on research projects dealing with the development of therapeutic DNA constructs for gene therapy in the treatment of diabetes.

RESEARCH ASSOCIATES in our Pharmacokinetics Department with M.S. or the equivalent in pharmaceutical-related sciences with experience in the field. These positions will conduct small animal survival surgery and conduct *in vivo* pharmacokinetic/ADME studies.

The second area of our research effort is customized assay development and analytical services for the biotechnology industry. If you want to contribute to our work in identifying and developing assays for relevant biomarkers to diagnose diseases, in monitoring the efficacy of treatments, and accelerating the discovery of new drugs using the molecular targets emerging from genomics, we are currently seeking qualified candidates for the following position:

RESEARCH SCIENTISTS in our Assay Development Department with Ph.D. or the equivalent in biology, chemistry, immunology, or related discipline with experience in the field. These positions will lead a team of Scientists in the research and development of assays.

We are committed to scientific excellence with a state-of-the-art research facility and strong ties to both industrial and academic institutions. We offer an excellent opportunity to work in a multidisciplinary and multinational team environment with significant opportunities for growth. IPD offers a competitive compensation and benefits package. Interested candidates should send their curriculum vitae to:

Human Resources

The Institutes for Pharmaceutical Discovery
23 Business Park Drive
Branford, CT 06405
FAX: 203-315-5920
E-mail: info@ipd-discovery.com

TENURE-TRACK FACULTY POSITION

Louisiana State University
Health Sciences Center, Shreveport

The Department of Cellular Biology and Anatomy and the Feist-Weiller Cancer Center invite applications for a full-time, tenure-track position in cancer biology at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR**. We are seeking individuals to augment our departmental efforts in cancer research. Areas of particular interest are the biology of solid tumors including angiogenesis, gene therapy, cancer immunology, cell signaling, and cellular adhesion/metastasis. Applicants must have a Ph.D. and/or M.D. degree with significant postdoctoral research and a record of research accomplishment. The successful candidate will be expected to maintain a funded research program and to participate in graduate and medical school teaching. Applicants should submit curriculum vitae, a brief description of current and future research directions, a statement of teaching interests, up to three representative reprints, and the names and addresses of three references. Send all application materials to: **J. Michael Mathis, Ph.D., Department of Cellular Biology and Anatomy, LSU Health Sciences Center, P.O. Box 33932, Shreveport, LA 71130-3932. E-mail: jmathi@lsuhsc.edu. LSU Health Sciences Center, Shreveport, is an Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

PRINCIPAL INVESTIGATOR POSITION U.S. Department of Agriculture (USDA) Agricultural Research Service (ARS)

The Growth Biology Laboratory, Animal and Natural Resources Institute, Beltsville Agricultural Research Center, Beltsville, Maryland, is accepting applications for an interdisciplinary research position: Research Biologist (Cell Biologist)/Research Biologist (Immunologist)/Research Chemist (Protein Biochemist)/Research Physiologist, or Molecular Biologist (GS-12/13). Salary range is \$53,156 to \$82,180. A Ph.D. is preferred. The position is in a laboratory performing research within a broad project addressing the identification of economically important, production-related genes in livestock and poultry. The overall goal of the research is to improve animal productivity and disease resistance and to develop new animal products or traits that affect well-being and production efficiency of livestock and poultry. The objective of the research is to develop a program to identify and characterize signal transduction pathways that affect production traits in livestock and poultry. Specific areas of research will include the identification of cellular signaling pathways involved in mediating low-level disease stress in beef cattle and to identify potential protein biomarkers that may indicate enhanced disease susceptibility or disease resistance. In addition, the positive and negative regulation of cytokine signal transduction pathways and growth/differentiation factor signaling will be evaluated. Expertise in general molecular biological procedures, receptor analysis, second messenger assays, proteomics, differential display techniques, DNA microarray analysis, Western blotting, ELISA, species-specific antibody production, and luciferase reporter assays as well as the design and production of recombinant proteins is required. Closing date is January 7, 2002. Applications must be submitted by the closing date. For information on research program, contact: **Dr. J. McMurtry; e-mail: mcmurtry@anri.barc.usda.gov. For copy of announcement, application forms, or information, Telephone: 301-504-1482 or 301-504-1369 or view Announcement Number ARS-D2E-2053 on the Internet at web-site: <http://www.afm.ars.usda.gov/divisions/hrd/hrdhomepage/empopp.htm> USDA. ARS is an Equal Opportunity Employer.**

RESEARCH ASSOCIATE/ POSTDOCTORAL POSITIONS

The University of Virginia Health System, Department of Pharmacology, is seeking applications for Research Associate/Postdoctoral positions to investigate mechanisms of ion channel modulation. The laboratory uses electrophysiological and molecular approaches in cell culture and in native preparations to understand mechanisms involved in the receptor and anesthetic control of potassium channels (see web-site: <http://www.med.virginia.edu/medicine/basic-sci/pharm/bayliss.html>). Experience in these areas is desirable but not essential. Both foreign and domestic applicants at the Ph.D. level will be considered. Salary will depend on qualifications. To apply, send résumé to: **Dr. Douglas A. Bayliss, Department of Pharmacology, P.O. Box 800735, University of Virginia, Charlottesville, VA 22908-0735. E-mail: dab3y@virginia.edu. Application deadline: open until filled. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.**

DIRECTOR OF RESEARCH TPRL INC.

TPRL is a small company (six persons) specializing in thermophysical property research. The Director of Research responds to customer inquiries regarding TPRL's measurement capabilities. He (she) conducts selected measurements and oversees and analyzes results for all measurements based on theory and comprehensive understanding of diverse materials over large temperature ranges, heat transfer, and associated mathematics. Ph.D. in physics or materials science and two years of experience in thermophysical properties required. Respond to: **R. Taylor, TPRL, 3080 Kent Avenue, West Lafayette, IN 47906 U.S.A. FAX: 765-463-5235.**

POSITIONS OPEN

VA ASSOCIATE CHIEF OF STAFF FOR RESEARCH

Miami Veterans Affairs Medical Center
and the University of Miami School of Medicine

The Miami VAMC and the UMSM invite applications for the position of Associate Chief of Staff for Research at the VAMC. The position entails responsibility for leadership and oversight of the existing research program at the VAMC and the development of new programs in collaboration with our closely affiliated School of Medicine. Candidates should possess M.D. and/or Ph.D. degrees and have strong leadership and administrative skills and a record of scientific accomplishment. Faculty appointment will be made in a department of the UMSM appropriate to the individual's background.

Support for the Miami VAMC research program totals more than \$9 million annually including funds administered by the South Florida VA Foundation for Research and Education. The Miami VAMC hosts a Geriatric Research, Education, and Clinical Center (GRECC) and Centers for Spinal Cord Injury Rehabilitation Research, Behavioral Medicine Research, HIV/AIDS, and Hepatitis.

Applicants should submit a letter of interest, current curriculum vitae, and the names of three references to: **Chair of the ACOS Search Committee, Herman S. Cheung, Ph.D., Research Service (151), VA Medical Center, 1201 N.W. 16th Street, Miami, FL 33125.**

The Miami VAMC and UMSM are Equal Opportunity Employers and encourage the applications of women and minorities.

RESEARCH POSITIONS, Graduate Program in Toxicology, College of Veterinary Medicine, Oklahoma State University, Stillwater, Oklahoma 74078. Several **POSTDOCTORAL** and **RESEARCH ASSISTANT** positions available immediately in the following NIH-funded laboratories. Applicants with strong background in biochemistry, cell biology, molecular biology, or toxicology are encouraged to apply. **Guangping Chen, Ph.D. (e-mail: kpypmph@okstate.edu):** molecular mechanisms of drug-metabolizing enzymes; human intestinal drug-metabolizing enzymes. Molecular biology and enzymology. **Lin Liu, Ph.D. (e-mail: liulin@okstate.edu):** molecular mechanisms of exocytosis; differential gene expression during lung cell differentiation; oxidative/nitrosative stress. **Carey Pope, Ph.D. (e-mail: pcarey@okstate.edu):** neurochemical mechanisms of anticholinesterase toxicity and tolerance; stress-induced modulation of neurotoxicity; development of sensors for neurotoxins. To apply, send your curriculum vitae directly to the individual Investigator above by e-mail or regular mail. Deadline for application is December 1, 2001, or until a suitable candidate is identified. *Oklahoma State University is an Affirmative Action/Equal Opportunity Employer committed to multicultural diversity.*

BIOMEDICAL RESEARCH SPECIALIST

CEDPA is a nonprofit international organization that has been awarded a USAID contract to provide Technical Advisors in AIDS and Child Survival (TAACS). *This position requires U.S. citizenship.* Security clearance will be required. 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 biological sciences. Minimum of two years of product development and program management experience. Extensive technical knowledge of the critical biomedical research issues for the HIV/AIDS field. Ability to work independently and within a team. Excellent verbal/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: 202-332-4496; e-mail: jobs@cedpa.org.**

UCSF Faculty Position

The University of California at San Francisco is looking to fill tenure track positions in any area of computational biology. We are seeking an outstanding scientist and leader at the senior level. We will also consider junior candidates. The successful candidate will participate in teaching in areas of physical chemistry, biophysics, or drug discovery and will interact with the experimental biological community at UCSF. Interest in all-atom simulations and/or quantum mechanics would be a plus.

Applications should be received by January 1, 2002. Please send a letter, CV, statement of research interests, reprints, and 3 letters of reference to:

Faculty Search Committee #P-87
Department of Pharmaceutical
Chemistry
University of California Box 0446
San Francisco, CA 94143-0446

Women and candidates from underrepresented groups are particularly encouraged to apply. UCSF is an Affirmative Action/Equal Opportunity Employer. The University undertakes affirmative action to assure equal employment opportunity for underutilized minorities and women, for persons with disabilities and for Vietnam-era veterans and special disabled veterans.



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Interested candidates should send their resumes to: **Applera Corporation, Human Resources Department, 850 Lincoln Centre Drive, Foster City, CA 94404.**

FAX: (650) 638-6712. For more information on these and other career opportunities, visit our website: **www.abcareers.com.**

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PHYSIOLOGY-BIOMEDICAL ENGINEERING FACULTY POSITION - TEXAS A&M UNIVERSITY College Of Veterinary Medicine

The Department of Veterinary Physiology and Pharmacology invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. We are seeking an individual with expertise in biomedical engineering and cardiovascular physiology to support ongoing collaborations between the Departments of Biomedical Engineering and Veterinary Physiology and Pharmacology. Applicants should hold a Ph.D., D.V.M.-Ph.D., or M.D.-Ph.D. in Biomedical Engineering with postdoctoral experience in cardiovascular physiology. The position will be a full-time, 12-month appointment in the Department of Veterinary Physiology and Pharmacology with a joint appointment in the Department of Biomedical Engineering in the College of Engineering. The department has an active and well-funded research program (NIH, AHA) in cardiovascular physiology, which is part of the Michael E. DeBakey Institute for Comparative Cardiovascular Sciences and Biomedical Devices, supported by funds from a Federal Initiative through the Centers for Disease Control. The successful candidate is expected to possess an excellent research record, including extramural grant support, and to exhibit exceptional knowledge of physiological principles in addition to outstanding training in biomedical or related engineering field. The candidate will be expected to participate in undergraduate as well as graduate education and must be committed to excellence in teaching. The applicant should possess excellent communication and interpersonal skills, a commitment to students, and a collegial approach to academic interactions. Excellent opportunities exist at Texas A&M for collaboration within the Colleges of Veterinary Medicine, Agriculture, Engineering, Science, and Medicine. We offer a competitive salary and start-up package.

Please send a cover letter of application, curriculum vitae, statement of research interests and plans, statement of teaching experience and philosophy, selected reprints of publications, and the names of four references to: **John N. Stallone, Ph.D., Chairperson, Cardiovascular-Biomedical Engineer Search Committee, Department of Veterinary Physiology and Pharmacology, College of Veterinary Medicine, Texas A&M University, College Station, TX 77843-4466; E-mail: jstallone@cvm.tamu.edu.**

For additional information, visit our website: <http://www.cvm.tamu.edu>

Texas A&M University is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.

POSTDOCTORAL POSITIONS AVAILABLE

Two postdoctoral positions are available to study lipid trafficking and organelle biogenesis in *S. cerevisiae*. Current projects include identifying and characterizing novel proteins involved in sterol transport from the plasma membrane to the ER and developing new genetic and imaging approaches for studying lipid trafficking. Candidates must have a strong background in cell biology. Please send a C.V. and the names of three references to:

Will Prinz
Laboratory of Cell Biochemistry and Biology
NIH/NIDDK
Building 8, Room 402
8 Center Drive
Bethesda, MD, 20892
fax (301) 496-9431
willamp@intra.niddk.nih.gov

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POSITIONS OPEN



United States
Department of
Agriculture

Agricultural
Research
Service

MICROBIOLOGIST/MOLECULAR BIOLOGIST GS-12/13

The Agricultural Research Service/U.S. Department of Agriculture at the Beltsville Agricultural Research Center, Beltsville, Maryland, is accepting applications for a Microbiologist/Molecular Biologist. The Scientist will serve as a member of a team whose aim is to devise control strategies against avian coccidiosis caused by protozoa of the genus *Eimeria*. The Scientist will be responsible for conducting independent and cooperative research on identifying gene sequences coding for vaccine antigens or proteins involved in the metabolism and development of these parasites. The Scientist is expected to utilize new technologies such as genomics and proteomics to identify candidate antigens or drug targets for *Eimeria* species and to assess the potential of these antigenic or metabolic proteins in the development of protective immunity or in intracellular development in poultry. Salary range: \$53,156 to \$82,180 per annum and commensurate with experience. *Candidates must be U.S. citizens.* The position has specific education and experience requirements and factors that must be addressed. Please see Announcement Number ARS-D2E-2031A. For specific requirements, copy of the Vacancy Announcements, and/or forms, please Telephone: 301-504-1482 or view Announcements on Internet under website: <http://www.ars.usda.gov/afm2/divisions/hrd/hrdhomepage/empopp.htm>. Closing date: December 10, 2001. Applications must be submitted by the closing date of the announcement. *USDA/ARS is an Equal Opportunity Provider and Employer.*

ASSISTANT PROFESSOR Gene Therapy/Molecular Biology

Assistant Professor position is available at the Musculoskeletal Disease Center of Loma Linda University and the Jerry L. Pettis Veterans Administration Medical Center. Join a large, multidisciplinary team working on basic molecular mechanisms of gene therapy for musculoskeletal diseases such as osteoporosis, arthritis, and hematopoietic diseases. The opportunity exists to closely interact with experienced investigators in retroviral vectorology, molecular genetics, and bone biology. A strong background in molecular biology is essential as well as a strong publication record and proven ability to successfully compete for external grants. Salary and benefits are competitive plus the possibility of a long-term position. Please send your curriculum vitae, cover letter, and the names of three references to: David J. Baylink, M.D., Musculoskeletal Disease Center, P.O. Box 7210, Loma Linda, CA 92354. The Musculoskeletal Disease Center is ideally located in the inland Empire of Southern California, one hour from metropolitan Los Angeles, Orange County, beaches, mountains, and the desert. *Loma Linda University is an Equal Opportunity Employer.*

PLANT BIOLOGIST

The Department of Biology at Marquette University seeks to fill a tenure-track ASSISTANT PROFESSOR position in plant biology available August 16, 2002. Candidates must have postdoctoral experience and must develop an extramurally funded research program. Preference will be given to applicants with expertise in plant molecular biology and bioinformatics but applications are invited from all areas of plant biology. Teaching responsibilities include an annual one-semester undergraduate lecture in plant biology and a graduate course or seminar each year. Send curriculum vitae; statements of research interests; and three letters of recommendation by January 15, 2002, to: Dr. Brian Unsworth, Marquette University, Department of Biology, WLS112A, P.O. Box 1881, Milwaukee, WI 53201-1881. Website: <http://biology.marquette.edu>.

POSITIONS OPEN

POSTDOCTORAL POSITIONS Cardiovascular Molecular Biology

The Division's laboratories have multiple positions open for talented Fellows who wish to use gene knockout and transgenic technologies to explore questions of cardiovascular development, differentiation, and function. Integrative approaches involving molecular genetics, functional genomics and proteomics, biochemistry, cell biology, and whole organ and animal physiology are used. The successful applicants will have the choice of working with Jeff Robbins, Mark Sussman, Jeff Molken- tin, or Katherine Yutzey. Please see website: <http://mcb.chmcc.org> for details of the research programs. Candidates should have the Ph.D. or M.D. and experience either in molecular genetics, cell biology, muscle mechanics, or cardiovascular physiology. You may contact the individual faculty directly or mail, FAX, or e-mail your curriculum vitae and a description of your research interests to: Dr. Jeffrey Robbins, Professor and Director, Division of Molecular and Cardiovascular Biology, ML 7020, Children's Hospital, 3333 Burnet Avenue, Cincinnati, OH 45229-3039. FAX: 513-636-3852; e-mail: jeff.robbs@chmcc.org. *Children's Hospital is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.*

POSTGRADUATE RESEARCHER Department of Neurobiology and Behavior

Molecular neuroscience Postgraduate Researcher, University of California, Irvine, to study the molecular mechanisms of synaptic plasticity and memory of the hippocampus. The project involves a combined approach of molecular biology, cell biology, electrophysiology, and behavioral analysis. Candidates must have a strong dedication to research and be well trained in molecular and/or cell biology. Experience in electrophysiology and behavioral analysis desired. This position begins in January 2002. Base salary is \$31,044 plus benefits. Please send curriculum vitae, statement of research interests, and the names and addresses of three references to: Jeffrey S. Beckwith, University of California, Irvine, Department of Neurobiology and Behavior, 2205 Bio Sci II, Irvine, CA 92697-4550. E-mail: beckwith@uci.edu. *The University of California is an Equal Opportunity Employer committed to excellence through diversity.*

POSTDOCTORAL ASSOCIATE position available immediately to study the blood-feeding behavior and insecticide resistance of West Nile virus mosquito vectors in the United States. Research will involve diverse activities including evaluation of mosquito blood-feeding preferences, resistance monitoring, and investigations of resistance mechanisms. A Ph.D. and background in molecular biology are required. A detailed job description is available at website: http://www.entomology.cornell.edu/Faculty_Staff/Harrington.htm. Send curriculum vitae to: Dr. Laura C. Harrington, Department of Entomology, Cornell University, Comstock Hall, Ithaca, NY 14853-0901. *Cornell is an Equal Opportunity/Affirmative Action Employer and Educator.*

POSTDOCTORAL POSITION available immediately at the University of Georgia, Tifton, Georgia, to study regulation of genes involved in resistance to drought stress and aflatoxin formation in corn and peanut. Ph.D. in molecular biology, genetics, plant pathology, or related field with experience in cDNA library, EST, DNA microarray preferred. Send curriculum vitae and the names and contact information of three references to: Dr. R. Dewey Lee, University of Georgia, Crop and Soil Sciences Department, Tifton, GA 31793. E-mail: deweylee@arches.uga.edu and Dr. Baozhu Guo, USDA-ARS, P.O. Box 748, Tifton, GA 31793. E-mail: bguo@tifton.cpes.peachnet.edu.

POSITIONS OPEN



POSTDOCTORAL FELLOWSHIPS University of Pennsylvania School of Medicine Department of Physiology

Immediate opening for candidate with Ph.D. to study the molecular physiology of InsP_3 receptor ion channels involved in intracellular calcium release. Molecular, biochemical, electrophysiological, and imaging approaches will be used to study novel interactions of the InsP_3 receptor with brain proteins. Experience in electrophysiology, neurobiology, molecular biology, or optical imaging desirable. Send curriculum vitae, brief statement of research interests, and names of three references to: Dr. Kevin Foskett, University of Pennsylvania, Department of Physiology, Room B39 Anat-Chem, Philadelphia, PA 19104-6085. FAX: 215-573-6808; e-mail: foskett@mail.med.upenn.edu.

Immediate opening for Ph.D. position in neurobiology. Fellow will be responsible for maintaining cell lines, molecular biological procedures, animal surgeries, and general laboratory maintenance. Must be reliable and willing to work nonstandard hours. Good oral and written communication and organizational skills required. Send curriculum vitae, brief statement of research interests, and names of three references to: TH-Postdoctoral Committee, University of Pennsylvania, Department of Physiology, B400 Richards, Philadelphia, PA 19104-6085. FAX: 215-573-5851. *Penn is an Equal Opportunity/Affirmative Action Employer. Qualified women and minority applicants are encouraged strongly to apply.*

ASSISTANT/ASSOCIATE PROFESSOR Molecular Biology University of Arkansas for Medical Sciences

Applications are invited for a tenure-track faculty position in any area of molecular biology. The Department of Biochemistry and Molecular Biology is building its strength in molecular biology and structural biology with the advent of several new faculty positions. Individuals using high-throughput approaches such as gene arrays, *in situ* hybridization, phage display, or molecular evolution are encouraged to apply. However, all areas of molecular biology will be considered. Applicants for this position should have a Ph.D. degree, postdoctoral experience, and demonstration of research productivity and independence. Preference will be given to applicants having extramural research funding but all applications will be considered. Candidates will be expected to establish an independent, extramurally funded research program and to participate in graduate and medical teaching programs. We offer excellent salaries and benefits, good start-up packages and laboratory space, and enthusiastic and interactive colleagues. Applications will be reviewed after January 1, 2002, and the search will continue until the position is filled. Interested parties should submit current and complete curriculum vitae, a statement of research interests, and a list of references. Submit applications to: Search Committee, Department of Biochemistry and Molecular Biology, Mail Slot 516, University of Arkansas for Medical Sciences, 4301 West Markham Street, Little Rock, AR 72205. *UAMS is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION available starting January 2002 at the Ohio State University College of Medicine, Department of Neuroscience, to study hormonal regulation of potassium channel function and expression in endocrine cells. Interdisciplinary research involves cloning, expression, and electrophysiology. Preference will be given to candidates with demonstrated patch clamp experience. Please send curriculum vitae and names of three references to: Dr. John Enyeart, OSU College of Medicine, Department of Neuroscience, 5196 Graves Hall, 333 West 10th Avenue, Columbus, OH 43210-1239. E-mail: enyeart.1@osu.edu.

ANNOUNCEMENTS

FLEXGene Consortium REQUEST FOR PROPOSAL

Cloning System

A cloning system is sought with which to construct a complete repository of human genes in a form that will enable the rapid, high throughput cloning and transfer of cDNA sequences into any protein expression vector. Commercial- and nonprofit-sector owners of cloning systems potentially useful for this project are strongly encouraged to submit proposals.

Interested parties can view the complete text of the RFP and contact information at:

www.flexgene.org

PROFESSOR

DEPARTMENT OF NEUROBIOLOGY HARVARD MEDICAL SCHOOL

The Department of Neurobiology at Harvard Medical School invites applicants for the position of Professor of Neurobiology. We are searching for an internationally recognized leader in basic neuroscience research focused on aspects of neural development, plasticity, degeneration or repair. Beyond his or her research expertise, the successful candidate will demonstrate an interest in the broad sweep of neuroscience and the ability to collaborate with neuroscientists in other departments and affiliated institutions. This position offers outstanding scholarly and scientific resources in a collegial and collaborative atmosphere that includes strong ties to related departments throughout Harvard, its affiliated hospitals and the Boston neuroscience community. Those resources include the Harvard Center for Neurodegeneration & Repair and its Brain Imaging Core with facilities for small animal MRI, optical imaging, and single and multi-photon confocal microscopy. The position also offers the opportunity to teach exceptional graduate, medical and health science technology students with strong interests in neuroscience and related technologies. Candidates must have a Ph.D., M.D. or equivalent graduate degree. Applicants should send a letter of application, including a curriculum vitae and a brief description of research interests to:

**Carla J. Shatz, Ph.D., Nathan Marsh Pusey Professor of Neurobiology
Chair, Neurobiology Search Committee
Harvard Medical School, 220 Longwood Avenue, Boston, MA 02115**

*Applications must be received no later than January 5, 2002.
Harvard Medical School is an equal opportunity/affirmative action employer
with an institutional commitment to diversity in its faculty.*

HARVARD MEDICAL SCHOOL



ANNOUNCEMENTS



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AWARDS



The Mars Nutrition Research Council, Inc. Postdoctoral Fellowship for Phytochemicals and Human Health Announcement for 2002

The MNRC Postdoctoral Fellowship Award was created to encourage young scientists to focus their research on the investigation of the effects of functional food/food ingredients on human nutrition and physical or mental health. The research should involve bioactive food components other than the traditional nutrients. The MNRC intends to fund one Fellow who has recently completed a PhD or MD degree. The MNRC plans to fund the fellowship for two years. Funding for the second year will be based upon demonstration of normal progress in the first year. Research should be carried out in the laboratory of an established researcher, but the fellowship applicant and the host laboratory need not have previously conducted research on functional foods.

The criteria for selection will include quality of prior training and research, publications and abstracts of the applicant, the research proposal, and the quality of the sponsoring institution/mentor.

Application and award schedule:

2002 Applications Available	October 1, 2001
Application Receipt Deadline	January 15, 2002
Announcement of Award	March 15, 2002

To obtain an application form:

e-mail:	hannum1@uiuc.edu
or write to:	John W. Erdman, Jr., PhD Executive Director Mars Nutrition Research Council P.O. Box 53 Urbana, IL 61803-0053

POSITIONS OPEN

POSTDOCTORAL POSITION COLLEGE OF VETERINARY MEDICINE North Carolina State University

The Department of Anatomy, Physiological Sciences, and Radiology invites applications for a Postdoctoral position. The incumbent will perform research on the binding of arsenicals to important proteins as a mode of carcinogenesis. The incumbent will examine the number of binding sites and the binding affinities of several arsenicals (both trivalent and pentavalent, methylated and not) to target polypeptides. The incumbent will perform binding studies to synthetic peptides, transcription factors and steroid hormone receptors, DNA repair enzymes, zinc finger proteins, and tubulin to give a much more detailed view of the individual amino acids (e.g., Cys, His.) that have a large impact of binding (or not binding) oxyanion species such as arsenite or dimethylarsinous (DMA(III)).

Applicants should possess the following qualifications: Ph.D. or equivalent. Postdoctoral research experience in the fields of biochemistry, toxicology, pharmacology, endocrinology, or chemistry is preferred. Prior experience with binding (e.g., ligand-receptor, substrate-enzyme, hormone-receptor, etc.), particularly to peptides or proteins, is preferred. Any existing knowledge of or experience with metal or organometal chemistry, biochemistry, toxicology, or enzymology is also preferred.

Applicants for the position should submit curriculum vitae and the names/telephone numbers of three references to: **Search Committee Chair Dr. Kenneth B. Adler, Ph.D., Department of Anatomy, Physiological Sciences and Radiology, College of Veterinary Medicine, North Carolina State University, 4700 Hillsborough Street, Raleigh, NC 27606.** Applications may be sent by mail or electronically (e-mail: kenneth_adler@ncsu.edu). Deadline for receipt of applications is November 1, 2001, or until filled. North Carolina State University is an Equal Opportunity/Affirmative Action Employer. Individuals with disabilities desiring accommodations in the application process should contact: Mandy Driver; e-mail: mandy_driver@ncsu.edu; Telephone: 919-513-6454; FAX: 919-513-6465; TTY: 919-515-9617.

POSTDOCTORAL POSITIONS Eunice Kennedy Shriver Center for Mental Retardation

Positions are available immediately to study regulation of the mammalian nervous system at the molecular level. The research will focus on mechanisms and consequences of expressing isoforms of neuronal-specific genes that arise from alternative splicing. Candidates should have a Ph.D. with experience in molecular and cellular biology; knowledge of protein and immunological techniques is strongly desirable.

The Shriver Center is an affiliate of the University of Massachusetts Medical School. The Department of Biomedical Sciences provides extensive core facilities and many opportunities for scientific interactions. Please send curriculum vitae and the names/telephone numbers/e-mail addresses of three references to: **Athena Andreadis, Ph.D., E. K. Shriver Center, 200 Trapelo Road, Waltham, MA 02452.** E-mail: athena.andreadis@umassmed.edu. The Shriver Center is an Affirmative Action/Equal Opportunity Employer.

RESEARCH INVESTIGATOR or POSTDOCTORAL FELLOW: will develop and improve small animal assay systems for microbicide safety and efficacy. We are developing topical formulations to prevent infection by sexually transmitted pathogens, especially HIV, HPV, chlamydia, *Neisseria gonorrhoeae*, *Treponema pallidum*, and *Trichomonas vaginalis*. Position is open for a Virologist or Microbiologist to develop a reliable laboratory animal system to evaluate candidate microbicides for efficacy in preventing infection by one or more of these pathogens through sexual contact. Contact: **Dr. David Phillips, Population Council, 1230 York Avenue, CBR, New York, NY 10021.** Telephone: 212-327-8744; FAX: 212-327-7678; e-mail: dphillips@popcouncil.org; website: www.popcouncil.org. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN



United States
Department of
Agriculture

Agricultural
Research
Service

POSTDOCTORAL RESEARCH ASSOCIATE PHYSICAL SCIENTIST/RESEARCH CHEMIST/CHEMICAL ENGINEER

The United States Department of Agriculture (USDA), Agricultural Research Service (ARS), National Center for Agricultural Utilization Research (NCAUR), in Peoria, Illinois, is seeking a Physical Scientist with a recent Ph.D. in chemistry, biochemistry, chemical engineering, or a related field for a temporary-term appointment at the GS-11 level (starting salary \$43,326 per annum). The position will entail carrying out research on improving the emulsifying capacity of polysaccharides. This will involve research on protein-polysaccharide conjugates including their synthesis and characterization. Physical processing methods are likely to be involved. The position will be in the Fermentation Biotechnology (FBT) Research Unit, which includes Chemists, Biochemists, and Microbiologists working on a variety of methods for converting agricultural commodities into value-added products. Knowledge of protein chemistry, physical chemistry of emulsions, and macromolecular chemistry will be considered highly desirable. Experience with protein-carbohydrate conjugates, proteoglycans, polysaccharide derivatives, or related materials would also be considered an advantage. Applications should refer to Announcement Number RA-02-016H. For information on special requirements, salary, benefits, or application forms, contact: **Mimi Valencia, Human Resources Specialist, USDA/ARS Human Resources Division, 5601 Sunnyside Avenue, Beltsville, MD 20705-5106.** Telephone: 301-504-1395; FAX: 301-504-1578. For specific information on the duties and responsibilities of this position or to submit an application, contact: **Dr. Gregory Côté, USDA/ARS/NCAUR/FBT, 1815 North University Street, Peoria, IL 61604.** Telephone: 309-681-6319; FAX: 309-681-6427; e-mail: cotegl@ncaur.usda.gov. USDA/ARS is an Equal Opportunity Provider and Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE position is available in the Department of Reproductive Biology, Case Western Reserve University School of Medicine. The position is located on the main campus of MetroHealth Medical Center. The successful candidate must have a Doctoral degree and experience in molecular biology or cellular biology. Ongoing research focuses on differentiation of human placental trophoblast including regulation of plasma membrane phospholipid distribution, intercellular fusion, and expression of endogenous retroviral elements. Evaluation of applications will begin immediately and will continue until a suitable candidate is found. Send curriculum vitae along with two references to: **Neal S. Rote, Ph.D., Director of the Division of Research, Department of Obstetrics and Gynecology, MetroHealth Medical Center, 2500 MetroHealth Drive, Cleveland, OH 44109-1998.** E-mail: nrote@metrohealth.org. CWRU and MetroHealth Medical Center are Affirmative Action/Equal Opportunity Employers.

POSTDOCTORAL POSITION Hematology/Oncology

Two Postdoctoral Fellowship positions are available immediately in the laboratory of **Dr. Ronald Hoffman (Hematology/Oncology section)**. The position involves studies of the molecular and cellular biology of hematopoietic stem cells and stem cell plasticity. Expertise in cell biology and molecular biology required. Salary to be determined by candidate's experience. For fullest consideration, submit curriculum vitae and three references by December 10, 2001, to: **Ronald Hoffman, M.D., Chief, Section of Hematology/Oncology (M/C 787), MBRB, Room 3150, 900 South Ashland Avenue, Chicago, IL 60607.** E-mail: ronhoff@uic.edu. UIC is an Affirmative Action/Equal Opportunity Employer. Women and all minorities are encouraged to apply.

POSITIONS OPEN

POSTDOCTORAL POSITIONS: syphilis/Lyme disease. Two Postdoctoral positions are available to study the genetic basis of pathogenesis by *Borrelia burgdorferi* and *Treponema pallidum*. The Lyme disease project will focus on new genetic approaches to study aspects of gene regulation that impact *B. burgdorferi*'s virulence (PNAS 98:12724, 2001). The syphilis project will exploit molecular and cell biology approaches to address issues in treponemal membrane biology, chemotaxis, and other aspects of *T. pallidum*'s parasitic strategy. Both positions offer the opportunity to carry out research in an attractive, dynamic research environment with outstanding resources and infrastructure such as campus housing and a concierge service. Candidates should have evidence of a strong background in prokaryotic molecular biology and genetics; experience in bacterial membrane biology and/or chemotaxis is a plus. Please provide curriculum vitae and the names and addresses of three references to: **Dr. Michael V. Norgard, Chair, Department of Microbiology, University of Texas Southwestern Medical Center, 6000 Harry Hines Boulevard, Dallas, TX 75390-9048.** Telephone: 214-648-5900; FAX: 214-648-5905; e-mail: michael.norgard@utsouthwestern.edu. U.T. Southwestern Medical Center is an Equal Opportunity Employer.

POSTDOCTORAL AND RESEARCH ASSOCIATE POSITIONS Memorial Sloan Kettering Cancer Center

A Postdoctoral and a Research Associate position are available to study the mechanisms of STAT-mediated tumorigenesis and apoptosis (PNAS 98:1543-1548, 2001; Oncogene 19:2468-2473, 2000; Cell 98:295-303, 1999). Applicants are expected to have a Ph.D. and/or an M.D. and research experience in molecular biology, tissue culture, mouse models of carcinogenesis, and biochemistry. Please send e-mail curriculum vitae; research interests; and the names, telephone numbers, and e-mail addresses of three references to:

Jackie Bromberg, M.D., Ph.D.
Memorial Sloan Kettering Cancer Center
Department of Medicine, Box 397
1275 York Avenue
New York, NY 10021
E-mail: bromberj@mskcc.org

POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS Molecular Virology

Available immediately to study the mechanism of coronavirus replication/transcription on NIH-funded projects. One project focuses on identifying and characterizing components of the viral replication/transcription complex and the other on developing systems for studying viral RNA synthesis. Experience in virology, biochemistry, protein purification, and molecular biology is highly preferred. Contact:

Dr. Xuming Zhang
Associate Professor
Department of Microbiology and Immunology
University of Arkansas for Medical Sciences
4301 West Markham Street, Slot 511
Little Rock, AR 72205
Telephone: 501-686-7415
FAX: 501-686-5359
E-mail: zhangxuming@uams.edu

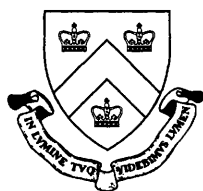
POSTDOCTORAL POSITIONS in the general areas of synthetic/bioorganic/natural products chemistry at the National Institutes of Health are currently available. Projects with openings include the design and synthesis of inhibitors and structural/biochemical studies of mycobacterial enzymes. Candidates must have a Ph.D. in or related to organic or biochemistry and less than four years of postdoctoral experience. Expertise in modern NMR methods is a plus. Interested candidates should send current curriculum vitae and have three letters of recommendation sent to: **Dr. Carole A. Bewley, LBC, NIDDK, Building 8-1A02, 9000 Rockville Pike, Bethesda, MD 20892-0820.** The NIH is an Equal Opportunity Employer.

THE 2002 LOUISA GROSS HORWITZ PRIZE

The Louisa Gross Horwitz Prize was established under the will of the late S. Gross Horwitz through a bequest to Columbia University and is named to honor the donor's mother. Louisa Gross Horwitz was the daughter of Dr. Samuel David Gross (1805–1889), a prominent surgeon of Philadelphia and author of the outstanding *Systems of Surgery*, who served as president of the American Medical Association.

Each year since its inception in 1967, the Louisa Gross Horwitz Prize has been awarded by Columbia University for outstanding basic research in the fields of Biology or Biochemistry. The purpose of this award is to honor a scientific investigator, or group of investigators, whose contributions to knowledge in either of these fields is deemed worthy of special recognition.

The prize consists of an honorarium and a citation, which are awarded at a special presentation event. Unless otherwise recommended by the Prize Committee, the prize is awarded annually. The 2001 awardees were Avram Herskho, M.D., Distinguished Professor, Technion-Israel Institute of Technology Alexander Varshavsky, M.D., Howard and Gwen Laurie Smits Professor of Cell Biology, California Institute of Technology.



QUALIFICATIONS FOR THE AWARD

The Prize Committee recognizes no geographical limitations. The prize may be awarded to an individual or a group. When the prize is awarded to a group, the honorarium will be divided among the recipients, but each member will receive a citation. Preference will be given to work done in the recent past.

Nominations for prospective recipients should be given to the chairman of the Louisa Gross Horwitz Prize Committee, Dr. Marian Carlson. Nomination letters should include:

1. A summary, preferably less than 500 words, of the research on which this nomination is based.
2. A summary, preferably less than 500 words, of the significance of this research in the fields of biology or biochemistry.
3. A brief biographical sketch of the nominee, including positions held and awards received by the nominee.
4. A listing of up to ten of the nominee's most significant publications relating to the research noted under item 1.
5. A copy of the nominee's curriculum vitae.

An original and twelve (12) copies of each nomination should be sent to: Dr. Marian Carlson, Chairman of the Louisa Gross Horwitz Prize Committee, Office of the Vice President for Health Sciences and Dean of the Faculty of Medicine, Columbia University, 630 West 168th Street, Room 2-401, New York, NY 10032.

Deadline for the receipt of nominations is January 14, 2002.

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- Have a minimum cumulative GPA of 3.3 (4.0 point scale)

GRADUATE SCIENCE RESEARCH DISSERTATION FELLOWSHIPS

- 12 Fellowships Annually
- Fellowship Stipends up to \$30,000
- Department Grants of \$10,000
- Support for 12-24 months

An applicant must:

- Be enrolled full-time in a Ph.D. or equivalent doctoral program in a biomedical life or physical science
- Be engaged in and within 1-3 years of completing dissertation research

POSTDOCTORAL SCIENCE RESEARCH FELLOWSHIPS

- 10 Fellowships Annually
- Fellowship Stipends up to \$55,000
- Department Grants of \$15,000
- Support for 12-24 months

An applicant must:

- Hold a Ph.D. or equivalent degree in a biomedical life or physical science
- Be appointed as a postdoctoral fellow by the end of the year 2002 at an academic or non-academic research institution (private industrial laboratories are excluded)

Applicants must be African American (Black, non-Hispanic), U.S. citizens or permanent residents, and attend an institution in the U.S.A. Applications must be postmarked by December 15, 2001 For application forms and more information, please contact your department chairperson or Jerry L. Bryant, Ph.D., at the **United Negro College Fund**, 8260 Willow Oaks Corporate Drive, P.O. Box 10444, Fairfax, VA 22031-4511, by fax (703) 205-3574, by e-mail at uncfmerck@uncf.org, or visit our website at www.uncf.org/merck/

POSITIONS OPEN

FACULTY POSITION Environmental Health

Yale University's School of Forestry and Environmental Studies invites applications for a new professorship in environmental health. Initial appointment will be untenured at the ASSISTANT or ASSOCIATE PROFESSOR level.

We seek applicants with a Ph.D. or M.D. degree in the area of environmental health with disciplinary training in fields such as environmental epidemiology, toxicology, biostatistics, or risk assessment. Research interests might include the relations between human health and air quality, water quality, food safety, biological diversity, or climate change and be relevant to environmental policy and management.

Those interested should submit a copy of their curriculum vitae; three relevant reprints or manuscripts; a brief statement of research interests; a statement of teaching interests; and the names and addresses of three references by January 15, 2002. Electronic applications are welcomed. Send all materials to:

John Wargo, Chair
Environment and Health Search Committee
Yale School of Forestry and
Environmental Studies
205 Prospect Street
New Haven, CT 06511
E-mail: john.wargo@yale.edu

Yale University is an Equal Opportunity/Affirmative Action Employer.

A POSTDOCTORAL POSITION in microbial pathogenesis is available to investigate virulence mechanisms of *Moraxella catarrhalis*, an etiologic agent of middle ear disease in infants and young children. Emphasis will be placed on structure-function analysis of *M. catarrhalis* gene products involved in attachment of this pathogen to human cells and on regulatory factors controlling expression of these gene products. Experience with recombinant DNA techniques is required. Position includes salary, fringe benefits, and the opportunity to work in a dynamic research environment. Position available after January 1, 2002. Send curriculum vitae and the names and telephone numbers of three references to: Dr. Eric J. Hansen, Department of Microbiology, The University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75390-9048. FAX: 214-648-5905; e-mail: eric.hansen@utsouthwestern.edu. UT Southwestern is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION to study mechanisms of loss of growth regulation in human cancers (TGF- β signaling and cell cycle alterations) and the effects of gonadal steroids on growth regulation of the human endometrium through stromal/epithelial interactions. These studies use human primary cultures, cocultures, and mouse/human recombinant tissues. Candidates demonstrating the ability to be creative; highly motivated; work independently; and with a strong background in molecular and cell biology, biochemical techniques, and tissue culture should apply. Highly enriched and interactive basic science environment; a great opportunity. Send curriculum vitae and at least three names of references to: Leslie I. Gold, Ph.D., Associate Professor, Department of Pathology, New York University School of Medicine, 550 First Avenue, New York, NY 10016. E-mail: leslie.gold@med.nyu.edu.

POSTDOCTORAL POSITIONS available in laboratories of Dr. D. Moskophidis (virology/immunology/molecular genetics) to study T cell regulation in persistent viral infections or function of hsp70s in knockout mouse models and Dr N. Mivechi (signal transduction/transcription) to study transcription regulation using knockout mice and zebrafish. Experience in virology, immunology, or molecular biology is essential. Send résumé to e-mail: moskophidis@immagene.mcg.edu or e-mail: mivechi@immag.mcg.edu or mail to: Medical College of Georgia, IMMAG, CA 2012, Augusta, GA 30912-2600. Equal Opportunity Employer/Affirmative Action/Equal Access. (E-02176924)

POSITIONS OPEN

Georgia Tech has received a Dreyfus POSTDOCTORAL AWARD in environmental science and is seeking a recent chemistry Ph.D. to apply chemical techniques to ecological questions. The Postdoctoral applicant can choose from projects on aquatic chemical signaling in coral reefs, rivers, lakes, or the open ocean plankton, exploring the role of chemistry in mate tracking and selection; in locating food; or in defense from natural enemies (predators, competitors, parasites). Previous experience in environmental research is not required. The Postdoctoral applicant will interact with faculty, graduate students, and undergraduates in laboratory and field research at our Atlanta campus, our marine laboratory on Skidaway Island, and on international expeditions. Georgia Tech is expanding its programs in chemical ecology (website: <http://www.biology.gatech.edu>) and is offering a stimulating environment that includes seminars from world-renowned Researchers; an annual field course at Skidaway Island; and a Ph.D. curriculum in chemical signaling that melds biological, chemical, and engineering approaches. Salary is \$35,000 per year for two years plus benefits. Applications are currently being considered. Send résumé, up to three reprints, a statement of research interest, and three letters of reference to: Julia Kubanek, Mark Hay, or Jeannette Yen, School of Biology, Georgia Tech, Atlanta, GA U.S.A. 30332-0230. E-mail: julia.kubanek@biology.gatech.edu. Georgia Institute of Technology is a unit of the University System of Georgia and an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION Pulmonary Physiology

A Postdoctoral position is immediately available for the study of cystic fibrosis lung disease in an established laboratory. Candidate should have a strong background in pulmonary physiology. Knowledge and experience in one or more of the following areas are highly desirable: epithelial ion and liquid transport, mucociliary transport, respiratory mechanics, and quantitative fluorescence microscopy. Excellent English communication skills are essential. Please send a cover letter, curriculum vitae, and three letters of recommendation to: Dr. Stephen T. Ballard, Associate Professor, Department of Physiology, MSB 3024, University of South Alabama, Mobile, AL 36688. Telephone: 334-460-7004; e-mail: sballard@usouthal.edu.

POSTDOCTORAL POSITIONS available for three projects using *Drosophila*: (1) molecular genetics of aging (*Genetics* 158:1167), (2) stem cell proliferation, (3) DNA replication origins (*Genes & Dev.* 15: 134). Research projects utilize genetic, molecular, transgenic, and genomic (gene chip) approaches. Recent Ph.D.s with experience in molecular techniques are encouraged to apply. Publication in international journals is a prerequisite. Send complete curriculum vitae and the names and contact information (including e-mail addresses) of three references to: Dr. John Tower, Molecular and Computational Biology Program, SHS172, University of Southern California, Los Angeles, CA 90089-1340. E-mail: jtower@USC.edu. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP in the Department of Radiation Oncology at Stanford University is available immediately to study a novel antiangiogenesis approach at both the molecular and cellular level as well as in preclinical models. Qualifications include expertise in cell culture, molecular/vascular biology, and histopathology. Prior experience with animal models is desirable. Interested applicants should submit curriculum vitae and the names, addresses, and telephone numbers of three references to: Susan J. Knox, Ph.D., M.D., Stanford University Medical Center, CCSR-South, Room 1245, MC 5212, 269 Campus Drive, Stanford, CA 94305-5212. E-mail: sknox@stanford.edu. Stanford University is an Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION *Chlamydia Pneumoniae* Proteomics

Postdoctoral position available within the Division of Infectious Diseases, Department of Medicine, to study the proteomics of *C. pneumoniae*. This three-year, NIH-funded position will utilize state-of-the-art facilities within the Core Proteomics Laboratory at the University of Louisville (website: <http://kdp01.kdp-baptist.louisville.edu/proteomelab/index.htm>) to study differential protein expression patterns of *C. pneumoniae* following induction of persistence in cell culture.

Applicants should have prior laboratory experience in molecular biology, bacteriology, and 2-D gel electrophoresis as well as excellent computer skills. Send curriculum vitae, details of research experience, and names of at least three references to: Dr. James Summersgill, Infectious Diseases Laboratory, Room 311, B Building, 500 South Preston Street, University of Louisville, Louisville, KY 40292. FAX: 502-852-1512; e-mail: jtsumm@louisville.edu. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS Massachusetts Institute of Technology

Two Postdoctoral positions are available in experimental biophysics at the Department of Physics at MIT. The first project explores the importance of noise and fluctuations in genetic networks. The successful candidate would use fluorescent genetic reporters and artificially constructed genetic networks to quantitatively measure noise in gene expression. The second project involves the study of mechanical force generation by actin polymerization. The Postdoctoral Associate would explore the motility of artificial objects such as polystyrene beads and phospholipid vesicles propelled by actin polymerization. Candidates should send a letter of application together with a résumé to: Dr. A. van Oudenaarden, Department of Physics, Room 13-2008, MIT, Cambridge, MA 02139. E-mail: avano@mit.edu. Further information can be found at website: <http://web.mit.edu/biophysics>.

POSTDOCTORAL POSITIONS to study how the diversity of G protein alpha and beta-gamma subunits leads to specificity in transmembrane signaling (see website: <http://www.med.virginia.edu/medicine/basic-sci/pharm/Pharm.html>). The major goal is to define the functional roles of beta-gamma dimers expressed in cells. Systems under study include receptor-alpha:beta-gamma coupling, regulation of adenylyl cyclases, regulation of K⁺ channels, and activation of PLC-beta or phosphatidylinositol 3-kinase. Techniques include using pure, recombinant proteins and cell transfection assays to monitor interaction of the beta-gamma dimers on alpha subunits and effectors. A Ph.D. with experience in molecular techniques, biochemistry, and protein purification is required. Send curriculum vitae and list of references to: Dr. James Garrison, Department of Pharmacology, P.O. Box 800735, University of Virginia, Charlottesville, VA 22908-0735. E-mail: jcg8w@virginia.edu. UVA is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE

To identify proteins involved in signal transduction during malignant transformation and apoptosis in leukemia, breast, and prostate cancer. Emphasis on the Pim-I protein kinase, AML/ETO, and TRAIL-induced death. Individual will interact with five Ph.D.s with strong backgrounds in molecular and cellular biology. Experience in molecular biology and protein chemistry including proteomics desirable. Send résumé and names/contact information of three references to: Andrew S. Kraft, M.D., University of Colorado Health Science Center, Division of Medical Oncology, 4200 East Ninth Avenue, B171, Denver, CO 80262. E-mail: laura.casias@uchsc.edu.

POSITIONS OPEN

POSTDOCTORAL AND TECHNICAL POSITIONS Stanford School of Medicine/ Palo Alto Medical Foundation

Positions available immediately to study molecular mechanisms underlying the uptake of key metabolites into cells with a particular emphasis on fatty acids. Current projects focus on the molecular/cellular biology of fatty acid transport proteins and the physiological characterization of knockout animals to determine the contribution of these proteins to normal energy homeostasis and disease. Postdoctoral candidates should hold recent Ph.D. and/or M.D. degrees and technical applicants should have (minimally) a B.S. degree. Experience in molecular biology and animal models is desirable. Send curriculum vitae and names of three references to: **Dr. Andreas Stahl, Cardiovascular Biology, Research Institute, Palo Alto Medical Foundation, Ames Building, 795 El Camino Real, Palo Alto, CA 94301. E-mail: astahl@stanford.edu.**

POSTDOCTORAL POSITION available for a recent graduate with a Ph.D. in microbiology or related field to work on a novel system for studying the molecular basis of host-pathogen interactions. The project is aimed at defining the host cell targets of the intracellular pathogen *Legionella pneumophila* in the protozoan host *Dicystostelium discoideum*. The effects of genetically altered *D. discoideum* on the outcome of *Legionella* infections will be studied using cell biological methods. The project will combine expertise from the laboratories of **Richard Kessin** and **Howard Shuman** with *D. discoideum* and *L. pneumophila*, respectively. Please send résumés and letters of recommendation to: **H. A. Shuman, Department of Microbiology and College of Physicians and Surgeons, 701 West 168th Street, New York, NY 10032. FAX: 212-305-1468; e-mail: has7@columbia.edu.** *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

A POSTDOCTORAL POSITION is available immediately to study the mechanism of EWS/WT1 translocation gene product in tumorigenesis (see *Nat. Gen.* 17:309, 1997). A strong background in molecular biology and/or biochemistry is required. Experience with transgenic/knockout mouse is a plus. Interested candidates with Ph.D. and/or M.D. and less than five years of postdoctoral experience should send curriculum vitae, bibliography, and names of three references to: **Sean B. Lee, Ph.D., Building 10, Room 9N-313, 10 Center Drive, Bethesda, MD 20892-1821. E-mail: seanl@intr.niddk.nih.gov; Telephone: 301-496-9739; FAX: 301-496-0839.** *NIDDK/NIH is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION to investigate the mechanisms of action of insulin and growth factors (see website: <http://www.med.virginia.edu/medicine/basic-sci/pharm/lawrence.html>). The laboratory uses molecular and biochemical methods to investigate signal transduction pathways involved in the control of cell growth. Foreign and domestic Ph.D.s will be considered. Send résumé to: **Dr. John C. Lawrence, Department of Pharmacology, P.O. Box 800735, University of Virginia, Charlottesville, VA 22908-0735. E-mail: jcl3p@virginia.edu. UVA is an Equal Opportunity/Affirmative Action Employer.**

A POSTDOCTORAL POSITION is available immediately to study the mechanism of BRCA1-associated tumorigenesis (see *Nat. Gen.* 22:37, 1999; 28:266, 2001). A strong background in molecular biology and/or signal transduction is required. Interested candidates with Ph.D. and/or M.D. and less than five years of postdoctoral experience should send curriculum vitae, bibliography, and names of three references to: **Chuxia Deng, Ph.D., Building 10, Room 9N105, 10 Center Drive, Bethesda, MD 20892-1812. E-mail: chuxiad@bdg10.niddk.nih.gov; Telephone: 301-402-7225; FAX: 301-480-1135.**

COURSES

Short course on time-resolved fluorescence spectroscopy. The Center for Fluorescence Spectroscopy at the University of Maryland School of Medicine is offering a short course on "Principles and Applications of Time-Resolved Fluorescence Spectroscopy" in Baltimore, March 25-29, 2002. The course will cover basic and advanced topics in fluorometry including time- and frequency-domain measurements and Forster energy transfer. Advanced topics include chemical sensing, imaging, fiber optics, infrared fluorometry, two-photon excitation, instrumentation, confocal and multiphoton microscopy, protein fluorescence, DNA technology, high-throughput screening, metal-ligand probes, correlation spectroscopy, lanthanides, and immunoassays. Textbook, course materials, lunches, and refreshments will be provided. For further information, a schedule, and fees, please contact: **Ms. Mary Rosenfeld or Professor J. R. Lakowicz, CFS, Department of Biochemical and Molecular Biology, 725 West Lombard Street, Baltimore, MD 21201. Telephone: 410-706-8409; FAX: 410-706-8408; e-mail: cfs@cfs.umbi.umd.edu; website: <http://cfs.umbi.umd.edu>.**

GLOBAL OPPORTUNITIES

FACULTY POSITIONS Life Science Department National Central University, Taiwan

The Department of Life Science at the National Central University is seeking candidates for the **CHAIRMAN** and several faculty positions at all levels. Qualified individuals should have a Ph.D. degree and at least two years of postdoctoral training. Areas of particular interest include developmental biology, bioinformatics, microbiology, and biochemistry; however, individuals with an outstanding record of research accomplishments and scientific creativity in other areas of life science are also encouraged to apply. Deadline for application is January 15, 2002. Applicants should include a letter of intent, curriculum vitae with a publication list, reprints of several representative publications, a brief research proposal and teaching plan, and three reference letters. Please submit application materials to: **Dr. Shir-Ly Huang, Department of Life Science, National Central University, Chung-Li, Taiwan 32054. E-mail: slhuang@cc.ncu.edu.tw; FAX: 886-3-4227834.**

ANNOUNCEMENTS

CALL FOR NOMINATIONS FOR THE 2002 GATES AWARD FOR GLOBAL HEALTH

The Global Health Council, administrator of the Gates Award for Global Health, invites you to nominate an organization for consideration for the \$1 million Gates Award. In submitting nominations for the Gates Award for Global Health, emphasis should be placed on an organization's accomplishments and contributions to date. The deadline for submission of nominations is December 5, 2001. For more information or to submit a nomination, please go to the Global Health Council's website: <http://www.globalhealth.org/> or contact: **Terry Fisher, Award Program Assistant; e-mail: tfisher@globalhealth.org; Telephone: 802-649-1340 (U.S.A.).**

MEETINGS

TYROSINE PHOSPHORYLATION AND CELL SIGNALING

August 7-11, 2002

EUKARYOTIC DNA REPLICATION AND GENOME INTEGRITY

August 17-21, 2002

The Salk Institute, La Jolla, CA

Website: <http://www.salk.edu/meetings.html>

GRANTS

PARKINSON RESEARCH GRANTS 2002-2003

The National Parkinson Foundation of Miami, Florida, invites the submission of grant proposals for Parkinson research. Funding is made available to support basic bench research in Parkinson's disease and related neurodegenerative disorders. The award for a single grant will not exceed \$40,000. None of the monies are to be utilized for administrative overhead or travel expenses. The application deadline is February 1, 2002. Funding will be effective as of July 1, 2002, and conclude June 30, 2003. It is required that proposed studies specifically focus on mechanisms involved in the disease process and that they have the potential of finding the cause and prevention of Parkinson's disease. Scientists entering the field of Parkinson research are encouraged to apply. Proposals will be assessed by the National Parkinson Foundation Scientific Advisory Board. To obtain submission information, please write or FAX to:

**Paula Conley
Programs and Grants Administrator
National Parkinson Foundation
1501 N.W. Ninth Avenue
Miami, FL 33136
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