NEW PRODUCTS

UNIVERSAL DIGITAL MICROSCOPE CAMERA

AxioCam is a digital camera for users of light microscopes who want to document their microscopic and macroscopic examinations with high-quality digital images. AxioCam provides high resolution ($6.7 \times 6.7 \mu m$ pixel size) for use in areas from pathology, cell research, genetics, and neuroscience to mate-

Carl Zeiss

For more information call 800-233-2343 or **circle 144** on the Reader Service Card rials analysis and quality assurance, regardless of the microscope contrasting techniques (that is, brightfield, darkfield, phase contrast, etc.). It is particularly suited to generating brilliant images

despite weak light signals, such as those found in fluorescence microscopy. The Peltier cooling goes down to 10°K below ambient. The camera is easy to operate via AxioVision image archiving software, which provides an integrated configuration for image acquisition, processing, measurement, and archiving.

LIQUID HANDLING SYSTEM

The Tango Liquid Handling System for highthroughput screening and genome analysis combines low-volume dispensing capabilities with a high-capacity, plate-handling sys-

tem. An innovative design allows users to easily remove and change the entire syringe head for servicing or changing syringe styles. Eight different syringe-based dispensing heads are available, as well as one that

Robbins Scientific

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uses disposable tips. A 12-position X-Y stage processes any combination of 12 microplates in 96-, 384-, or 1536-well format, with a translational speed of 6 inches/second and a positional accuracy of 5 microns.

MICROPLATE AUTOMATION ACCESSORY

The Presto AutoStack increases the microplate storage capacity and flexibility of the Tecan Genesis and other liquid-handling workstations. Designed to provide fast, reli-

Zymark

For more information call 508-435-9500 or **circle 146** on the Reader Service Card able access to consumables used in typical microplate assays, the AutoStack presents trays of tips, reagents, microplates, or deep wells to an automated device without robotic arm intervention. The AutoStack's software allows it to be integrated with a large variety of automation devices, including liquid handlers, automated gantry grippers, and robotic arms used in storage and retrieval, cherry picking, and other assays. Optional capabilities include Automatic Cover Removal, which provides a means of working with covered microplates, and an insulated enclosure for environmental control.

IMAGE ANALYSIS WORKSTATION

The Leica Q550FW Fluorescent Workstation addresses the vision, analysis, and measure-

ment needs of fluorescent microscopy in bioscience, medical, and pharmacological laboratories. The workstation offers a highly optimized, integrated, fluorescent imaging station that combines a fluorescent

Leica

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microscope, digital imaging camera, and computer. Digital imaging and recording for fluorescence is appropriate because speci-



mens are often not stable, and the images may be weak, making traditional photography difficult and inconvenient.

BIOACTIVE LIPID LIBRARY

The Screen-Well Bioactive Lipid Library enables researchers to rapidly screen and identify ligands for orphan receptors. It has par-

ticular application in nuclear and G protein—coupled research and in pharmacological screening for orphan receptors. Each of the 200 bioactive lipids is supplied in solution at standard concentrations of 0.1 or 1.0 mM. The library includes lipids

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APOPTOSIS AND DRUG-RESISTANCE REAGENTS

The IgM monoclonal antibody (mAb), clone IPO-4, is available for the induction of apoptosis in Fas-expressing human cells. IPO-4 is stable and kills without the addition of a secondary cross-linker. The antibody can also be used for immunohistology, flow cy-

tometry, and fluorescence microscopy. Clone M_sII-54 and Clone M_sI-1 are two new mAbs for the study of multidrug resistance in human cancer cells. Both antibodies react with an internal epitope of human MRP5,

Evotech Biologics

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a 190–200 kDa transmembrane protein that is closely related to the multidrugresistance–related protein MRP. Both antibodies can be used for immunocytochemistry, immunohistochemistry, flow cytometry, and protein immunoblotting.

LITERATURE

Filter Sets for Fluorescent Proteins and FP-FRET is a product sheet on single dye filter sets designed to work with the new red fluorescent protein mutant DsRed. The filter set

Omega Optical

For more information call 802-254-2690 or **circle 150** on the Reader Service Card is optimized for imaging with a black and white detector as well as a second filter set suited to imaging in color, such as by eye or with color film. Both sets have been optimized to reduce crosstalk between DsRed and

yellow fluorescent protein, green fluorescent protein, and cyan fluorescent protein. As a result, the new DsRed sets produce bright signals with black backgrounds in single- and multiple-labeling applications.

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



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POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR Wellman Laboratories of Photomedicine Massachusetts General Hospital Department of Dermatology Harvard Medical School

Applications for faculty positions are invited for candidates with combined medical and laboratory science expertise. The Wellman Laboratories are involved in a multidisciplinary effort to develop optical technologies for medical applications. Current efforts in the area of biomedical optics include the application of confocal microscopy to in vivo tissue diagnosis, the development of advanced optical coherence tomography systems for clinical applications, and the use of spectroscopy to identify tumors in vivo. We are seeking candidates who wish to establish a multidisciplinary research program in the area of biomedical optics. Specific areas of interest include spectroscopy, optical technology, and tissue optics. The ideal candidate would combine a record of achievement in biomedical optics, the ability to obtain peer-reviewed external support, and a strong interest in applying optical techniques to clinical problems.

Applicants should submit curriculum vitae, a statement of research interests and goals with reprints of selected recent publications, and the names of three references by 1 October 2000 to:

Dr. John A. Parrish Director, Wellman Laboratories of Photomedicine Massachusetts General Hospital, WEL 224 Boston, MA 02114

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

TENURE-TRACK ASSISTANT PROFESSOR UNIVERSITY OF MINNESOTA

The University of Minnesota Center for Immunology, the Institute of Human Genetics, and the Department of Medicine invite applications for a tenuretrack Assistant Professor position from candidates with a strong research program in the field of genetics of human or mouse autoimmune disease as part of a new program in autoimmunity. Candidates must have a Ph.D. and/or M.D. degree and a minimum of three years of postdoctoral experience. They must have demonstrated the ability to carry out high-quality research with publications in top-flight journals in the area of genetics of autoimmunity and will be expected to develop a strong extramurally funded research program. Strong emphasis will be placed on candidate's potential for interaction with other faculty in the Institute for Human Genetics and the Center for Immunology. Salary and start-up funds will be competitive.

Applications should include current curriculum vitae, statement of research interests, and three letters of reference. Please send to: Timothy W. Behrens, M.D., Autoimmunity Program, University of Minnesota, Mayo Mail Code 334, 312 Church Street, S.E., Minneapolis, MN 55455. Last date for receipt of applications is September 8, 2000. The University of Minnesota is an Equal Opportunity Educator and Employer.

LABORATORY COURSE COORDINATOR:

The California Institute of Technology seeks an individual to design, develop, and coordinate (in cooperation with faculty members) several undergraduate laboratory courses in the Division of Chemistry and Chemical Engineering. Candidates should have a Ph.D. in chemistry or a related field, excellent oral and written English language communication skills, previous experience with college-level chemistry instruction, and working knowledge of and hands-on experience with chemistry laboratory techniques and instrumentation. For a detailed job description or to apply with letter of interest, résumé, names of references, transcripts, publication list, and salary history, write to: Dr. Paul Carroad, Chemistry 164-30, California Institute of Technology, 1200 East California Boulevard, Pasadena, CA 91125. The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply

POSITIONS OPEN

DEAN OF THE NICHOLAS SCHOOL OF THE ENVIRONMENT DUKE UNIVERSITY

Duke University invites nominations and applications for the position of Dean of the Nicholas School of the Environment. The Dean is the chief academic and administrative officer of the Nicholas School and reports to the Provost. The Dean's responsibilities include strategic planning, faculty appointments, budgetary and administrative oversight, and stewardship and development. As a member of the Cabinet of Deans, the Dean of the Nicholas School works collaboratively with the Provost, President, and other Deans in fostering the aims of the University as a whole.

Established in 1991 but with roots dating back to the founding of the Duke School of Forestry and the Duke University Marine Laboratory in 1938, the Nicholas School is a multidisciplinary, self-standing unit within one of the nation's foremost research universities. The School's 45-member faculty brings together natural and social scientists to teach and conduct basic and applied research in environmental, earth, and marine sciences. Educational programs include doctoral, professional Master's, and undergraduate students.

The Dean of the Nicholas School must have the capability to be an intellectual leader among the faculty. He or she should be an accomplished scholar or, in exceptional circumstances, a successful practitioner with substantial knowledge of and experience with universities. He or she must also be an energetic and conscientious administrator broadly familiar with issues in higher education, a strong advocate for the teaching and research mission of the School, a consensus builder but also a decision maker, and a preeminent University citizen. He or she should be an enthusiastic representative of the School to the University, alumni, relevant external groups, and the public at large.

Candidates should submit a cover letter highlighting relevant areas of experience, curriculum vitae, and three names of individuals familiar with the candidate's qualifications. Confidentiality will be maintained. The review of nominations and applications will begin on September 1, 2000, and continue until the position is filled. For further information about the Nicholas School, including a complete job description, see website: www.env.duke.edu. Please send nominations, application materials, and requests for information to: Professor Randall Kramer, Chair, Dean's Search Committee, Nicholas School of the Environment, Duke University, Durham, NC 27708-0328. Duke University is an Equal Opportunity/Affirmative Action Employer.

Yale Department of Internal Medicine, Section of Nephrology, seeks candidate with outstanding skills in patient care, teaching, and clinical scholarship for appointment as ASSOCIATE PROFESSOR. Based on training and interest of the candidate, the appointment is expected to progress along the clinician-educator or clinician-scholar track. Please reply with curriculum vitae and references by September 3, 2000, to: Denise Krause, Associate Administrator, Department of Internal Medicine, Yale School of Medicine, P.O. Box 208029, New Haven, CT 06520-8029. An Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are particularly encouraged to apply.

A POSTDOCTORAL POSITION is available immediately to study the mechanism by which p53 functions as a tumor suppressor. He/She will characterize some of the newly identified cellular genes regulated by the p53 family proteins. Experience in molecular biology and biochemistry is required. For more information, please see the articles in Molecular Medicine Today 5:387–392 and Mol. Cell. Biol. 20: 5602–5618. Please send your curriculum vitae to: Dr. Xinbin Chen, CB–2803, Medical College of Georgia, Augusta, GA 30912. E-mail: xchen@mail. mcg.edu; FAX: 706-721-8752. The Medical College of Georgia is an Equal Employment Opportunity/Affirmative Action Employer.



Medicines for Malaria Venture Funding Opportunities

SECOND CALL FOR LETTERS OF INTEREST

- 1. Malaria Drug Discovery Research Proposals
- 2. Malaria Drug Development Proposals

MMV was recently established in Geneva as an Independent Foundation committed to the sustainable discovery and development of affordable antimalarial chemotherapies into the 21st century. It is based on a partnership between several public sector agencies, philanthropic organisations and the pharmaceutical industry. The venture will operate under the umbrella of the World Health Organization Roll Back Malaria Project.

Last year three major drug discovery projects involving academic and industrial research groups were selected for funding at a combined total of \$4 million per year. In addition, several projects were selected for smaller 'seedcorn' grants. Generous donations from several agencies now enable MMV to initiate a second round of project support for the year 2000. Two categories are defined for this years proposals.

- 1. **Malaria drug discovery projects** that are directed toward the identification of a candidate compound for entry into preclinical development
- Projects may be at an early or late stage of the discovery process but must clearly outline the steps that will be followed and the issues that will be addressed to identify a candidate molecule.
- Most projects selected for funding last year were based on a partnership between an academic centre and a pharmaceutical company. However, this should not be seen as restrictive and applications are also welcome from stand-alone academic groups or from biotechnology and other pharmaceutical companies. The key determinant for funding will be the perceived chance of project success.
- ⇒ Where it is thought that a project would benefit from the establishment of a partnership, MMV will make efforts and offer its services to facilitate this.
- 2. **Malaria drug development projects** where a single molecule or combination (perhaps with a back-up compound) has been identified with demonstrably acceptable preclinical properties and a potential for clinical development.
- The molecule (or combination) may be at either a preclinical or clinical stage of development. It must have a well-documented activity in an appropriate animal model and/ or in humans. Full details of available data, including preliminary chemistry, formulation, analytics, toxicology and ADME (absorption, distribution, metabolism, excretion) should be provided.
- An established partnership or organisation to take forward the candidate drug through clinical development to registration is desirable, but not an essential prerequisite for funding, as MMV can assist in organising preclinical and clinical development to registration.

Application for funding is initially requested through submission of a 3-page letter of interest to reach MMV offices by September 30th, 2000. Further details outlining the desired content of such a letter for either category (drug discovery or drug development) can be obtained from the MMV web site (**www.malariamedicines.org**)

Subsequent to the letter of interest, a pre-selection of projects will be made by an Expert Scientific Advisory Committee. The Principle Investigators of these projects will then be asked to prepare a more detailed written proposal and representatives of the project teams will be invited to Geneva for an oral presentation of their projects to the committee in early 2001.

For further information, please contact:

Medicines for Malaria Venture, MMV Office (L 249) Tropical Disease Research (TDR), World Health Organisation CH-1211 Geneva 27, Switzerland

> Fax: +41 22 791 4854 E-mail: mmv@who.int

MMV gratefully recognises the funding and support it has received from the following organisations: Bill and Melinda Gates Foundation, Global Forum for Health Research, International Federation of Pharmaceutical Manufacturers Associations, Rockefeller Foundation, Roll Back Malaria Partnership, Swiss Agency for Development and Cooperation, The Netherlands Minister for Development Cooperation, United Kingdom Department for International Development, World Bank, World Health Organisation

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As a member of our reagent team you will assume bench responsibility for assay development on key diagnostic systems. You will be involved in the selection of antibody, optimazation of reagent formulation, verification of product performance, development of solutions to technical problems and control systems development.

You must have excellent communication skills, ability to work in a multi-functional team environment and be able to assume some supervisory responsibilities as required.

MS degree in Chemistry/Biochemistry with 3-6 years relevant experience in immunodiagnostics reagent or Ph.D with 1-2 years industry development experience. Additional experience in troubleshooting assay performance on automated diagnostic systems preferred.



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Two Tenure-Track Faculty Positions At The Medical College of Ohio

An Assistant Professorship is available for research and teaching in **bacterial pathogenesis**. The successful applicant would join three existing molecular bacteriologists in the Department of Microbiology and Immunology. Applicants with proven ability to obtain extramural funding will be strongly preferred.

Applications are also invited for a joint Assistant Professor position in the department and the Cancer Research Center. Candidates should demonstrate research expertise at the interface of microbiology/immunology and cancer biology, and provide evidence of the ability to attract NCl or equivalent grant support.

For both positions, the candidate should have a Ph.D. and/or M.D. and at least two years of postdoctoral research experience. Competitive salary and startup packages are available. Send curriculum vitae, a summary of research interests, three letters of recommendation, and reprints of two recently published articles to:

Dr. Garry T. Cole, Chair, Department of Microbiology and Immunology Medical College of Ohio 3055 Arlington Avenue Toledo, OH 43614-5806

Online applications may be made at http://www.mco.edu/depts/micro/newfac.html. Review of applications will begin on September 1, 2000. The Medical College of Ohio is an Affirmative Action/Equal Opportunity Employer.



MAYO CLINIC POSTDOCTORAL POSITION VASCULAR BIOLOGY

Two positions are available immediately in a laboratory in the Department of Medicine in the area of hepatic vascular biology. The focus of the laboratory is to understand the regulation of nitric oxide production in the liver with an emphasis on regulation of endothelial nitric oxide synthase as it relates to liver cirrhosis and portal hypertension. The **first position** focuses on the molecular regulation of endothelial nitric oxide synthase. Expertise in cellular biology including immunofluoresence techniques and cell fractionation is required as well as experience in standard biochemistry and molecular biology techniques. The **second position** focuses on nitric oxide, hepatic hemodynamics and experimental models of liver disease. Experience with in vivo hemodynamic measurements and in vitro pharmacology in rodent models is required. Please forward curriculum vitae and letter of interest to:

Vijay Shah, M.D.
Alfred 2-435 GI Research Unit
Mayo Clinic
Rochester, MN 55905
E-mail: shah.vijay@mayo.edu

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Candidates should have a recent Ph.D. degree in pharmacology, molecular biology, biochemistry, or a related discipline, or hold Pharm.D or M.D. degrees, and may visit our website at www.stjude.org Interested applicants should submit curriculum vitae with names of three references to: Dr. Janet Houghton, Division of Experimental Hematology, Department of Hematology-Oncology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105.

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Research Scientist II, Cell Biology (La Jolla)

We're seeking a PhD-level Scientist to study the genes involved in functional interaction of human cells with pathogenic viruses. Requires a solid scientific background, successful postdoctoral experience in cell biology or related area, and the ability to communicate in a multidisciplinary environment. Familiarity with approaches of functional genomics and target validation is a plus. Ad Code: 0012-102ZH

Research Scientist II, Pharmacology Research (La Jolla)

Join our Pharmacology Research team as you perform experimentation and direct internal and external collaboration efforts to discover, identify and evaluate pre-clinical anticancer compounds and support the clinical development of anticancer drugs. Requires a PhD in Pharmacology or Molecular Biology with a comprehensive knowledge of cancer chemotherapy with molecular biology and/or biochemistry. Experience in cancer drug development with an understanding of the molecular mechanisms of drug resistance and drug-drug interactions desired. Ad Code: 00-032-125TB

Senior Scientist I, Virology (La Jolla)

As part of our Virology team, you'll perform experimentation and direct internal and external collaborations to discover, identify and evaluate pre-clinical antiviral compounds and support the clinical development of antiviral drugs. We require a PhD in Virology or Molecular Biology. Experience in antiviral drug development, especially HIV, with an understanding of the principles of drug resistance and preparation of regulatory submissions desired. Ad Code: 0094-128AP

Associate Scientist, Cell Biology (La Jolla)

You'll be responsible for applying standard molecular and cell biology techniques to a wide spectrum of molecular oncology challenges. Requires an MS or BS with extensive experience and a strong background in molecular biology, protein expression, and cell culture. You'll also need experience with isolation and analysis of DNA and RNA, library construction, DNA cloning and subcloning, and RT-PCR, and demonstrated ability to quickly acquire new skills and experimental approaches. Ad Code: 102TV

To apply for the La Jolla positions, please submit resume and salary history, indicating the appropriate Ad Code, to PGRD La Jolla, 10777 Science Center Drive, San Diego, CA 92121; email jobs@agouron.com; fax: 858.678.8267.

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Lynda M. Pierini, PhD Weill Medical College of Cornell University New York, New York

"Regulation of LDL Receptor Endocytosis by G Protein"

Steven R. Post, PhD University of Kentucky Research Foundation Lexington, Kentucky

"The Role of ACAT1 Inhibition on Scavenger Receptor A Function and Expression in Murine Macrophages"

Annabelle Rodriguez, MD Sinai Hospital of Baltimore Baltimore, Maryland

"Thrombospondin-1 and Retinal Neovascularization" Nader Sheibani. PhD

Washington University School of Medicine St. Louis, Missouri

"The Role of HMG-CoA Reductase in Dendrite Initiation in the Central Nervous System"

Donald A. Siegel, PhD Department of Neuroscience Bronx, New York

"Functional Domains of Exchangeable Apolipoproteins"

Jose L. Soulages, PhD Oklahoma State University Stillwater, Oklahoma

"5-HT2B Receptor Upregulation in Hypertension: Mechanism and Physiological Impact"

Stephanie Watts, PhD Michigan State University East Lansing, Michigan

"Regulation of Interleukin-1 β -Formation by Platelets"

Andrew S. Weyrich, PhD University of Utah Salt Lake City, Utah







St. Jude Children's Research Hospital

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POST DOCTORAL POSITIONS AVAILABLE IN THE STUDY OF INFECTIOUS DISEASES

A Post-doctoral position is available to study cytokine-mediated control of the immune response in infectious diseases. Specific problems include understanding the molecular basis of latency in mycobacterial infections and the inhibitory role of IL-10 in acute and chronic inflammation. The technologies we are using to dissect these problems include transgenic mice construction, knockout mouse production and analysis, microarray screening, *in vitro* macrophage and T cell analysis and flow cytometry.

This post-doctoral position would be ideally suited to an individual with a strong background in immunology and/or mouse models of infectious diseases who has recently obtained a Ph.D. and/or M.D. and wishes to pursue training in the underlying basis of disease. The support facilities and the research environment at St. Jude Children's Research Hospital are exceptional, with strong collaborative interactions between departments within St. Jude as well as affiliated programs in the Memphis area.

This position is available immediately, and interested candidates should send a curriculum vitae and must arrange to have three letters of recommendation sent to: Peter Murray, Ph.D., Department of Infectious Diseases, St. Jude Children's Research Hospital, 332 North Lauderdale St., Memphis TN 38103.

Post-doctoral positions are available to study the molecular and cellular basis of Pneumococcal infections. We are coupling a variety of genetically-altered mouse models, chip technology, and information from the pneumococcal genome to understand the pathophysiology of meningitis from both the host and pathogen perspectives. Specific areas of interest focus on responses of live cells, leukocytes, neurons, glia and blood brain barrier endothelial cells.

The ideal candidate will have a strong background in bacterial genetics, host-pathogen interactions, immunology and/or mouse models of infectious diseases and will have obtained a Ph.D. and/or M.D. Our laboratories are part of the Department of Infectious Diseases which has strong programs in diverse aspects of bacterial and viral pathogenesis. The support facilities and the research environment at St. Jude Children's Research Hospital are exceptional, with strong collaborative interactions between departments within St. Jude as well as affiliated programs in the Memphis area.

These positions are available immediately. Interested candidates should send a curriculum vitae and three letters of recommendation to: Elaine Tuomanen, M.D., Chair, Department of Infectious Diseases, St. Jude Children's Research Hospital, 332 North Lauderdale St., Memphis, TN 38103.

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Scientist

Duties include developing protein, refolding and purification procedures for recombinant cytokines and growth factors. Req. PhD or BS/MS with 8+ years in protein chemistry or related field with expertise and proficiency in recombinant protein purification and refolding from bacterial, mammalian and insect cells. Relevant experience in the biotechnology or pharmaceutical industry, and familiarity with process scale chromatography is preferred. Excellent laboratory, communication, problem solving and people skills, as well as knowledge of cGMP, are required. (Job Code SCI/90)

Candidates wishing to be considered for these positions please submit your curriculum vitae or resume, including job code, to:

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Director of Proteomics

Responsible for our proteomics platform, and the characterization of pathways for entire genomes (Yeast, *Drosophila*, Human). Applicant must be a leader in the identification, characterization and elucidation of signal transduction and biochemical pathways. Mastery working with yeast two-hybrid and genomic-scale datasets required, as is the ability to drive software, and automation efforts. Exceptional presentation and management skills required. PhD. or M.D. and 5+ years of experience required. Job Code: 096-00

Research Scientists/Pharmacogenomics

Successful candidates will engage in high-throughput differential gene expression analysis to identify molecular correlates of drug efficacy and toxicity. Experience with differential gene expression analyses/DNA chip microarrays is preferred. Positions are available in the following: Molecular Toxicology, Molecular Endocrinology and Molecular Neuro/Psychopharmacology. A solid publication record is required as are strong communication skills and the ability to work in a highly interactive environment. M.D. or Ph.D. with training in molecular pharmacology/toxicology. Job Code: 080-00

Research Scientists/Pharmacogenetics

Catch the wave of the newest discipline, Population Genomics. We are seeking talented population geneticists interested in discovering the genes and their respective sequence variants that determine individual variability in drug response. Solid communication skills and the ability to work in a highly interactive environment are essential. Specific training in population-based genetics, genotype analyses and statistics as evidenced by a strong publication record is essential. M.D. or Ph.D. degree. Job Code: 082-00

Please send cover letter, resume / CV and 3 letters of recommendation. EOE

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Scientists - Ocular

You will design and conduct scientific research projects related to new drug technologies, including feasibility analysis and application of a wide variety of scientific principles. Your 3 to 5 years of post-doctoral microvascular, inflammation or angiogenesis research experience, including at least 2 years in a pharmaceutical or bio-pharmaceutical company, is the ideal complement to your Ph.D. in Vascular Biology or Pharmacology. Ocular experience is strongly preferred. A strong working knowledge of vascular and inflammation biology as well as hands-on experience with animal models are

Scientist I/II, Formulation Research & Evaluation

This position will see you plan, design, analyse and execute drug product-development projects as well as their preclinical evaluation using a wide variety of scientific principles and concepts. Combining a Ph.D. in Pharma-

ceutical Sciences, Chemistry, Biochemistry or a related field and 3 to 5 years of research and development experience, you have a broad knowledge base covering these fields and technical skills in drug and formulation development. Familiarity with GLP and some GMP techniques would be ideal.

Scientist I, Molecular Biology

With a view to meeting R & D objectives, you will design and implement scientific research projects, including the analysis of feasibility and application of various scientific principles and concepts. Your PhD in Molecular Biology is complemented by 3 to 5 years of research experience and an extensive cell biology background, including signal transduction. A broad knowledge base and technical skills in molecular biology and data-analysis are assumed.

Research Associate I, Formulation Research & Evaluation

Your knowledge and expertise will be focused on drug product development, including identifying drug substances, formulation, and screening/ evaluation. You will maintain the lab and organize all aspects of experimental procedure and analysis necessary for the successful completion of research objectives, while exercising technical discretion in the design, execution and interpretation of experiments. You must have a B.Sc. or M.Sc. in Chemistry, Biochemistry, Biology or Pharmaceutical Sciences, and 2 to 5 years of directly related experience. Your background includes familiarity with analytical techniques, chemistry and biology. Previous experience with formulation techniques for intravenous, oral and/or topical applications is preferred.

For complete details on these and other opportunities with QLT, please visit our Web site.

QLT offers a competitive compensation/ benefit program, including an Incentive Stock Option Plan and relocation assistance. Please submit your resume and cover letter to: Human Resources, QLT Inc. 887 Great Northern Way, Vancouver, British Columbia Canada V5T 4T5 Fax: (604) 707-7308 E-mail: hr@qltinc.com.

We thank all applicants for their interest and advise that only short-listed candidates will be contacted.

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PENNINGTON BIOMEDICAL RESEARCH CENTER

Faculty Positions in Molecular Genetics, Bioinformatics, Behavioral Neuroscience for M.D. and Ph.D. candidates

The Pennington Biomedical Research Center (an Affiliate of Louisiana State University), with its 50 faculty and staff is one of the leading institutions in research focusing on nutrition; the 4 major research themes are Obesity, Functional Foods, Nutrition and Chronic Disease and Nutrition and Performance. The current positions are within the Obesity Division which includes an expanding molecular/genetic and neuroscience program. Successful applicants will also be encouraged to develop interactions with the other research divisions. The Pennington Center has extensive state of the art facilities for both basic and human research and outstanding core facilities to support each area. More information is available at www.pbrc.edu. Salaries and start-up packages are highly competitive. Positions may be tenured, tenure track or research track depending upon the level of appointment and the experience of the applicant.

Molecular Genetics: Two faculty positions are available at the level of Assistant or Associate Professor. One candidate will have skills in the analysis of gene expression using modern methodologies to modulate gene expression by homologous recombination in rodent embryonic stem cells, including conditional gene targeting. The second appointment would seek a scientist who has expertise in the use of high throughput microarray technologies to analyze gene expression. While prior experience in the Obesity area is not essential, the successful candidates will be expected to develop a competitive research project in obesity research and to participate collaboratively in complex program projects to identify and delineate metabolic pathways underlying obesity in rodent models and human obese populations. Successful candidates must hold a Ph.D, M.D., or equivalent degree, must have a clear record of scientific excellence, and must hold or be competitive for external funding. (REF: York – Faculty – Molecular Genetics)

Bioinformatics: Assistant or Associate Professor in the area of Bioinformatics. Candidates should have a Ph.D., M.D., or equivalent and have significant research experience and a record of publications in sequence analysis, algorithm development and/or analysis of microarrays. Experience in mammalian genomics is a plus; a keen interest in the biology of human nutrition and related disorders is essential. Candidate should have a background in research computing and feel at home working in a UNIX environment. The successful candidate will have the opportunity to collaborate with the Pennington Center's many distinguished research scientists and contribute to the development of the Center's computational resources. Scientists who have worked in genome centers and have hands-on experience in organizing and analyzing data from Genome Projects are encouraged to apply. REF: (York – Faculty – Bioinformatics)

Behavioral Neuroscience: Up to 3 positions at the Assistant/Associate Professor/Professor level. Suitable areas of research include, but are not limited to, functional neuroanatomy and neuropharmacology, using behavioral, cellular, electrophysiological, and/or genetic approaches. Experience with the metabolic and neural control of energy balance and ingestive behavior and its methodological specialities are useful but not a requirement for individuals with established expertise in other behavioral and neural systems. Successful candidates must hold a Ph.D., M.D., or equivalent degree, must have a clear record of scientific excellence, and must hold or be competitive for external funding. Applications for the senior faculty position must have outstanding credentials. Successful applicants will be expected to have or be capable of developing an independent, externally funded research program. Opportunities for extensive collaboration with other faculty in the obesity and other research areas, and participation in the physiological characterization of newly identified genes affecting energy balance will be encouraged. (REF: York – Faculty – Behavioral Neuroscience)

Associate Professor or Full Professor position for an MD or MD/PhD candidate with experience in endocrinology, metabolism or cell signaling mechanisms and a research program involving both basic science and clinical approaches. The successful applicant will have a research interest that is in the broad area of nutrition, health and disease, preferably in obesity, diabetes or cardiovascular disease. Experience in molecular genetic approaches would be advantageous. Opportunities for extensive collaboration with other faculty will be available and participation in human studies of genes identified in rodent models will be encouraged. The applicant should be eligible for licensure in Louisiana. (REF: York – Faculty – Endocrinology/Metabolism)

The Pennington Biomedical Research Center/Louisiana State University is an equal opportunity employer. Applications should indicate clearly the position reference information and include a curriculum vitae, a description of research plans, and the names of three referees. Applications will be accepted until suitable candidates are found. These should be sent to:

Mrs. Evelyn Bennett Human Resource Management Pennington Biomedical Research Center 6400 Perkins Road Baton Rouge, LA 70808-4124

Electronic submission of applications from qualified candidates should be sent to Yorkda@pbrc.edu



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United States Environmental Protection Agency National Center for Environmental Assessment Post-Doctoral Positions

The National Center for Environmental Assessment (NCEA) of the U.S. EPA Office of Research and Development (ORD) is seeking candidates to fill four or more Federal, three-year postdoctoral research positions during the coming year. NCEA serves as the national resource center for human health and ecological risk assessment, integrating hazard, dose-response, and exposure data models to produce risk characterizations. NCEA occupies a critical position between laboratory/field researchers and EPA regulatory program offices and regions, with Divisions in Washington, DC., Research Triangle Park, NC, and Cincinnati, OH. Work is focused in three major areas: development of dose-response and exposure assessment methodologies; conducting state-of-the-science health and ecological risk assessments of national significance; and providing guidance and support to risk assessors. These non-laboratory postdoctoral positions are ideal for scientists interested in a broader involvement in the assessment and application of toxicological, epidemiological and environmental data to improving human health and the environment. Priority research interests for the postdoctoral positions include:

- Ecology/Ecotoxicology/Conservation Biology: Background in either general ecology, ecosystems, ecotoxicology, conservation biology or a related field;
- Toxicology/Health Science: Emphasizing mechanisms of toxicity, quantitative biological or pharmacokinetic modeling, and general, respiratory, molecular or immuno-toxicology;
- Biostatistics/Epidemiology: Focusing on the application of statistics and quantitative practices to risk assessment; and
- Environmental Science/Computer Science: Development of information management systems that fully support the process of ecological and health environmental assessment

Applicants with doctoral degrees in other human health, ecology/biology, bio-statistics, epidemiology, or toxicology disciplines pertinent to the broad scope of environmental risk assessment are also strongly encouraged to apply.

The post-doctoral positions are three-year Federal Government term appointments with a starting salary range of \$41,834 - \$65,179 commensurate with qualifications and locality pay adjustments. Selected candidates will be eligible for a full benefits package, health insurance, life insurance, retirement, and vacation and sick leave. Preferred candidates will have earned a Ph.D. in one of the above disciplines within the past five years, or will be eligible for award of the degree before selection, and must be United States citizens.

To apply for NCEA post-doctoral positions, please send a curriculum vitae, letter of recommendation from your senior research advisor or other comparable official, additional reference(s) as available, and a letter indicating your research focus to:

Dr. Bruce Rodan
National Center for Environmental Assessment (8601D)
ATTN: Post-Doctoral Positions
U.S. Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

Applications will be received and evaluated by NCEA on an ongoing basis.

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Research Scientist II, Biology

In this highly visible role, you'll provide technical support for the preparation and evaluation of live attenuated RSV and PIV vaccine candidates. Under research and GLP/GMP conditions, your responsibilities will extend to performing tissue-culture based virology procedures to biologically clone virus isolates and prepare pre-clinical vaccine pools, titer and characterize vaccine preparations and clinical trial specimens. Other challenges will include evaluating attenuation related virus phenotypes and developing assays.

A BS with 10 years' relevant experience qualifies you, as does an MS with 8 years' experience. Training in sterile technique, tissue culture, and handling of infectious agents is vital; virology background preferred. Exceptional communication and PC skills are also requisites.

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Biologic Functions of Nuclear Receptor Coactivators Stephen Burley, HHMI, Rockefeller University

Structural Biology of Eukaryotic Gene Expression Richard DiMarchi, Eli Lilly & Co.

Lilly Discovery Research: Gene Regulation and Beyond Alan Wolffe, Sangamo BioSciences Inc.

Coactivators, Corepressors and Human Disease: Targeting the Therapeutic Remodeling of Chromatin. Gisela Storz, NICHD, NIH

Transcriptional Regulation in Response to Stress in Prokaryotes

Registration deadline: Sept. 15th, 2000; space is limited For information and registration, Contact: Lilly BACC E-mail: smith ros@lilly.com

FACULTY POSITION Clinician Scientist - Assistant Professor, Associate Professor or Professor

The Pennington Biomedical Research Center, a research facility with Louisiana State University is seeking a clinical scientist for a faculty position in a metabolic physiology program with expertise in the study of the regulation of body weight and/or type 2 diabetes. Applicants should have experience and interest in studying the role of neuronal (CNS/peripheral) and hormonal mechanisms involved in the regulation of energy balance and carbohydrate metabolism. Expertise in designing and executing mechanistic studies including regulation of genes involved in food intake, energy metabolism and carbohydrate metabolism is desirable. Will perform research in a multidisciplinary team including physiologist and molecular biologists. Qualifications: MD (must be eligible for licensure in Louisiana) required and strong postdoctoral training experience is preferred. Resumes accepted until suitable candidate is found Submit curriculum vitae, 3 letters of reference and cover letter to:

Evelyn P. Bennett
Assistant Director/HRM
Ref: Ravussin - Faculty, Clinical Scientist
Pennington Biomedical Research Center
6400 Perkins Road
Baton Rouge, LA 70808-4124

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Research Positions in Epithelial Biology

The Department of Surgery at Beth Israel Deaconess Medical Center invites applications for a tenure-track Assistant Professor of Surgery to join a multidisciplinary basic and translational research group focused on Epithelial Biology. Applicants must have a Ph.D. and/or M.D. degree and significant research training and experience. The successful candidate will be provided with laboratory facilities and a generous start-up package, and will be expected to develop an independent, funded research program compatible with the research interests of other members of the group. These include signal transduction as it relates to epithelial cell injury, the role of cell adhesion molecules in epithelial cell polarization, transcriptional regulation of gut differentiation, restitution of the gastric epithelium, and the pathophysiology and cell biology of acute pancreatitis.

Beth Israel Deaconess is a leading, internationally recognized academic medical center affiliated with Harvard Medical School, and ranks third in the United States among independent research hospitals in sponsored research funding

Please send letters of application accompanied by curriculum vitae and names of three references to: Karl S. Matlin, Ph.D., Vice-Chairman for Research, Department of Surgery, Beth Israel Deaconess Medical Center, Research West 863, 330 Brookline Avenue, Boston, MA 02215.

Beth Israel Deaconess Medical Center is an Equal Opportunity Employer that values the strength diversity brings to the workplace.

Postdoctoral Researcher (Molecular Epidemiology)

The Pennington Biomedical Research Center in Baton Rouge, LA is seeking an individual with proven experience in molecular and cell biology. The candidate should have a broad experience in various aspects of mammalian cell biology and the use of molecular and cellular biology techniques to explore the function of genes involved in the control of food intake and energy metabolism. Studies will include changes in gene expression in human tissues in response to nutritional and physical activity interventions. Successful candidates will perform research in a multidisciplinary team whose mission is a better understanding of the molecular mechanisms involved in the development of human obesity. Qualifications: Ph.D. in molecular biology or related area; experience using software applications to search the human genome data base and experience in DNA genomics are necessary. Resumes will be accepted until the position is filled. Please send curriculum vitae and names of three references to

Evelyn P. Bennett,
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Center
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The Antiviral Group is currently seeking 2 individuals with significant research experience to participate in our drug discovery effort:

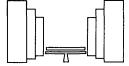
Research/Sr. Research Scientist

Research responsibilities in this role include cloning, protein expression, and characterization of targets essential for HIV replication and the development of novel assays to evaluate antiviral compounds. You will also participate in fundamental studies designed to elucidate the molecular basis of HIV drug resistance, viral pathogenesis and interactions with cellular factors that support viral replication. This position requires a Ph.D. in Virology/Molecular Biology, a minimum of 3 years postdoctoral experience in an HIV-related area, and a strong background in molecular virology. Industry experience a plus. Ad Code: 2K-KDA3797

Biochemist/Sr. Biochemist

Primary responsibilities include enzyme expression, purification, conducting studies of enzyme reaction mechanism and characterization enzyme inhibitors. Individual must possess a Ph.D. in Biochemistry and a minimum of 3 years postdoctoral experience. Demonstrated strengths in enzyme kinetics/mechanism and protein purification are highly desirable. The ability to develop biochemical assays for the discovery and characterization of enzyme inhibitors and demonstrated skills using modern techniques to conduct mechanistic studies of viral enzyme targets are musts. Industrial experience a plus. Ad Code: 2K-KDA3796

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The Salk Institute

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Positions are available to study the cellular and molecular mechanisms regulating (1) synapse formation, and (2) neuronal and glial development (Nature 378, 394-398; Neuron 22, 273-283; PNAS 97,1299-1304) using conditional mutation, neuroanatomical, signal transduction, and gene array methods. Current projects are focused on signaling pathways mediated by neuregulins, agrins, neurotrophins, and acetylcholine, and the interplay of these pathways. A doctoral level degree is required and a strong background in neurobiology, signal transduction, or cell biology is preferred.

Applicants should send curriculum vitae, statement of research interests and experience, and names of three references to:

Dr. Kuo-Fen Lee The Salk Institute 10010 N. Torrey Pines Road La Jolla, CA 92037 e-mail: klee@salk.edu

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THE UNIVERSITY OF CALIFORNIA SAN DIEGO DIVISION OF BIOLOGY

The Division of Biology at the 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 faculty positions 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. At the senior level, we are searching for a distinguished Neuroscientist PROFESSOR who will occupy the Stephen W. Kuffler Endowed Chair. Candidates will have a well-developed research program supported by extramural funds. At the **ASSISTANT PROFESSOR** level (tenure track), candidates must have demonstrated ability to develop a rigorous research program. 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 September 1, 2000, 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-mail addresses, and 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.

CANCER PHARMACOLOGY FACULTY POSITIONS DARTMOUTH MEDICAL SCHOOL

The Department of Pharmacology and Toxicology seeks applicants for tenure-track positions at the AS-SISTANT/ASSOCIATE PROFESSOR level. We are interested in candidates with an exciting research program in cancer pharmacology, such as in basic aspects of molecular oncology or novel therapeutic targets. Strong ties exist with the Norris Cotton Cancer Center, an NCI-designated comprehensive cancer center. The successful candidate will join a department with diverse expertise in pharmacology and toxicology (website: http://www.dartmouth.edu/ dms/pharmtox/). Candidates should have a Ph.D. and/or M.D. degree(s) and a productive academic record. Submit curriculum vitae, a statement of research interests and accomplishments, and names of at least three references to: Dr. Alan Eastman, Department of Pharmacology and Toxicology, Dart-mouth Medical School, 7650 Remsen, Hanover, NH 03755. Review of applicants will begin on September 1, 2000. Dartmouth, an Equal Opportunity/Affirmative Action Employer, strongly encourages applications from women and minority candidates

The Division of Infectious Diseases, Department of Medicine, University of Pittsburgh, is now recruiting several faculty at the ASSISTANT, ASSOCIATE, or **PROFESSOR** level to expand its clinical and basic research programs in HIV/AIDS and other viral diseases as part of a new Center for Viral Diseases. Candidates should have an M.D., Ph.D., or equivalent and have sufficient experience to establish an independent, funded research program that integrates basic virology or clinical science with clinical medicine. Competitive salary and start-up packages are available including newly renovated laboratory and office space. Send curriculum vitae, summary of research interests, and names of three references to: John W. Mellors, M.D., Chief, Infectious Diseases Division, Director, HIV/AIDS Program, University of Pittsburgh, Graduate School of Public Health, 603 Parran Hall, 130 DeSoto Street, Pittsburgh, PA 15261. Telephone: 412-624-8512; FAX: 412-383-7982; e-mail: fern@pitt.edu. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

CENTER DIRECTOR (HEAD) CENTER FOR AQUATIC ECOLOGY ILLINOIS NATURAL HISTORY SURVEY

The Center for Aquatic Ecology (CAE) at the Illinois Natural History Survey invites applications for a Director. We seek candidates with strong administrative skills and research interests in aquatic systems. Candidates must hold a Ph.D. in an appropriate discipline, have relevant administrative experience, and a strong record of independent research. The successful candidate will serve as the administrative head of CAF and actively conduct or collaborate in externally funded research. The independent research programs and field stations within CAE are directed by 11 Ph.D. scientists that generate over \$4 million per year in external funding from state and federal sources. The Illinois Natural History Survey is part of the Office of Scientific Surveys, Illinois Department of Natural Resources. It is an affiliated agency of the University of Illinois and is located on the Urbana-Champaign campus. The Director will have full access to campus facilities and resources and may hold affiliate appointments in university departments, teach, and supervise graduate students. Further information regarding the Center and Survey can be found at website: www. inhs.uiuc.edu. Direct technical questions to: Dr. Dan Soluk (Search Chair); Telephone: 217-244-5057; e-mail: dsoluk@uiuc.edu. To apply: Send cover letter; curriculum vitae; a statement of research interests and administrative philosophy; reprints of three publications; and the names, addresses, e-mail addresses, and telephone numbers of four professional references to: Susan Key, Human Resources Manager, PRF # 686, Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820. Telephone: 217-244-7790; FAX: 217-333-4949. To ensure full consideration, applications should be received by September 22, 2000. *Illinois* Natural History Survey is an Equal Opportunity Employer

NEUROBIOLOGIST JOB IDENTIFICATION #10679 UNIVERSITY OF ILLINOIS AT CHICAGO

The Department of Biological Sciences at the University of Illinois at Chicago invites applications for a tenure-track position at the RESEARCH ASSIST-ANT PROFESSOR level. Applicant must possess a Ph.D. and several years of postdoctoral experience. We seek applications from individuals experienced in cellular electrophysiology of simple vertebrate preparations. For fullest consideration, send curriculum vitae and three letters of recommendation by August 25, 2000, to:

Search Committee for Neurobiologist JOBID #10679 c/o Mary Wais Laboratory of Integrative Neuroscience 4068 SEL-MC 067 840 West Taylor Street Chicago, IL 60607

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

ASSISTANT/ASSOCIATE FIRE ECOLOGY RESEARCH SCIENTIST. We are seeking a Scientist to develop a nationally recognized research program on prescribed fire and vegetation dynamics in southern pine ecosystems. Duties also include orga-nizing Tall Timbers Fire Ecology Conferences every two to three years and editing proceedings. Qualifications: (1) Ph.D. in ecology or related field, (2) ability to conduct independent and collaborative ecological field research and publish in scientific journals, (3) ability to obtain extramural research funds, and (4) ability to edit scientific publications. To apply, submit curriculum vitae and names, addresses, and telephone numbers for three references to: L. A. Brennan, Tall Timbers Research Station, 13093 Henry Beadel Drive, Tallahassee, FL 32312. Review of applications will begin 21 September 2000 and continue until a suitable candidate is identified. See website: www.talltimbers.org for complete job description. Equal Opportunity Employer.

POSITIONS OPEN

ZOOLOGIST/ECOLOGIST

The Department of Zoology, University of British Columbia, invites applications for a tenure-track ASSISTANT PROFESSOR position in experimental field population/community ecology. The successful applicant will be expected to teach core and upper-level courses in ecology and organismal biology and to play an active role in the UBC Centre for Biodiversity Research.

sity Research.

The expected starting date will be July 1, 2001 (but could be as early as January 1, 2001). Applications should contain curriculum vitae, summary of research interests and teaching philosophy, reprints of three key publications, and the names and e-mail addresses of three references. These should be directed to: Dr. J. D. Berger, Head, Department of Zoology, University of British Columbia, 6270 University Boulevard, Vancouver, BC V6T 1Z4 Canada. FAX: 604-822-5780. To expedite handling of applications, candidates should ask those named as references to send supporting letters to the same address. Closing date for application is September 30, 2000. Salary will be commensurate with experience.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of British Columbia hires on the basis of merit and is committed to Employment Equity. In order to address underrepresentation of members of designated equity groups among senior faculty, we may consider making an appointment at a higher rank for a woman, visible minority, disabled, or aboriginal applicant with exceptional qualifications. Appointment is subject to final budgetary approval. We encourage all qualified persons to apply.

NEUROBIOLOGIST JOB IDENTIFICATION #10667 UNIVERSITY OF ILLINOIS AT CHICAGO

The Department of Biological Sciences at the University of Illinois at Chicago invites applications for a tenure-track position at the ASSISTANT PROFES-SOR level. The Neurobiology Group currently consists of nine faculty with research interests primarily in synaptic and developmental neurobiology and in sensorimotor integration. All of the faculty and graduate students also are affiliated with the neuroscience unit of the College of Liberal Arts and Sciences-the Laboratory of Integrative Neuroscience (website: www. uic.edu/las/LIN). We seek applications from individuals whose research program emphasizes neurodevelopment but will consider other areas as well. Successful candidates will be expected to pursue a vigorous independent research program and to contribute to the Department's undergraduate and graduate teaching efforts. For fullest consideration, send curriculum vitae, a brief summary of research teaching plans, and at least three letters of recommendation by December 1, 2000, to:

Search Committee for Neurobiologist JOBID #10667 c/o Mary Wais Laboratory of Integrative Neuroscience 4068 SEL-MC 067 840 West Taylor Street Chicago, IL 60607

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

MEDICAL WRITER

Physicians' Education Resource (PER) is seeking a Medical Writer/Editor to join its team. PER is a medical education company located in Dallas, Texas, specializing in the field of oncology. Successful candidates will be responsible for writing manuscripts from original data, reporting highlights from cancer meetings, creating slide sets for pharmaceutical companies, and editing and rewriting author-submitted manuscripts. This full-time position requires a Ph.D. in a biomedical science. Send résumé and salary requirements to: Barb Schmaedeke, HR Supervisor, 3535 Worth Street, Number 4802, Dallas, TX 75246. Confidential FAX: 509-352-2991; e-mail: barbaras@baylordallas.edu.



Structural Biophysics Laboratory



Positions Available

The National Cancer Institute has recently established the Program in Structural Biology (PSB) within the Division of Basic Sciences. As one component of the PSB, the Structural Biophysics Laboratory (SBL) focuses on the solution structural biology and biophysics of proteins, RNA, and protein-protein and RNA-protein complexes involved in cancer and AIDS. The major structural technique is nuclear magnetic resonance spectroscopy, and the Laboratory is equipped with 500, 600, and 800 MHz instruments. The research capabilities of the SBL have recently been expanded with the establishment of the new Protein-Nucleic Acid Interactions Section.

recently been expanded with the establishment of the new Protein-Nucleic Acid Interactions Section. efforts, positions are currently available in laboratories headed by the following investigators:

R. Andrew Byrd, Ph.D.

Postdoctoral positions in the structural biology of proteins and complexes involved in signal transduction and regulation of gene expression.

Yun-Xing Wang, Ph.D.

Postdoctoral positions working on elucidation of biological function and activity of enzymes and protein-nucleic acid complexes based on structures determined by NMR spectroscopy. Candidates must have expertise in both structural biology (protein, RNA, DNA, or protein/nucleic acid complexes) and NMR spectroscopy. Experience in C-programming is highly desirable.

Research Associate will work with postdoctoral fellows in preparing isotope-labeled protein, RNA, and DNA samples for structure determinations. Candidates should have skills in cloning, in vitro transcription of RNA, protein overexpression, protein and nucleic acid purificaiton, and RNA sequencing.



Applicants must possess appropriate qualifications, e.g., Ph.D. and/or M.D. for postdoctoral positions and B.S. or M.S. for research associate. Postdoctoral appointment duration is for up to 5 years, renewed on a yearly basis; stipends are commensurate with education and experience, with a range of \$31,500–\$49,430. Please submit a cover letter, CV including bibliography, and contact information for three references to Kathy Kasten, Structural Biophysics Laboratory, NCI-FCRDC, P.O. Box B, Building 538, Room 120, Frederick, MD 21702-1201. For further information about the PSB and the SBL, please visit our web site at http://nmrweb.ncifcrf.gov/PSB.

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



POST-DOCTORAL FELLOWSHIP IN CANCER BIOLOGY

MAYO CLINIC AND FOUNDATION, ROCHESTER, MINNESOTA

A post-doctoral fellowship is available effective immediately, to study the structure and function of a novel immediate early gene and its role in cutaneous carcinogenesis. Work will be conducted in the laboratories of Dr. Rajiv Kumar and Dr. Mark Pittelkow at Mayo Foundation.

Please send a curriculum vitae and bibliography, and the names and addresses of three individuals from whom letters of reference may be obtained to: Dr. Rajiv Kumar, Ruth and Vernon Taylor Professor, 911A Guggenheim, Mayo Clinic and Foundation, 200 First Street SW, Rochester, MN 55905; e-mail rkumar@mayo.edu, fax 507-266-4710, or to: Dr. Mark Pittelkow, Professor, Department of Dermatology, 411B Guggenheim, Mayo Clinic and Foundation, 200 First Street, SW. Rochester, MN 55905; e-mail pittelkow.mark@mayo.edu, fax 507-284-1086

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Scientist - Assay Development

Ceretek is a privately held biotechnology company focused on the discovery of novel therapeutics that target a newly characterized class of Gprotein coupled receptors (GPCRs).

We are currently looking for a bench scientist who will play a major role in new assay development, and pre-clinical evaluation of potential lead compounds.

Primary responsibilities:

- Validate lead compounds from primary screens in existing secondary assays
- · Develop and validate new secondary assays
- Establish and elucidate signaling pathways following GPCR activation

Qualifications:

- PhD in molecular or cell biology, or a related scientific discipline w/min. 2 yrs experience.
- Previous biotechnology or pharmaceutical industry experience highly desirable
- Strong technical experience in signal transduction, protein expression, and molecular biology (cloning and PCR)

Ceretek offers attractive compensation and excellent benefits. www.ceretek.com. EOE

How to Respond:

Ceretek, LLC, 213 East Grand Ave., South San Francisco, CA 94080. Attn: Job Code SCI01. Email: hr@ceretek.com. Fax: 650-952-0723.

FACULTY POSITION DIAGNOSTIC IMAGING and/or TARGETED RADIOTHERAPY

Purdue University seeks an outstanding scientist to fill a faculty position at any rank in the Department of Medicinal Chemistry and Molecular Pharmacology. Applicants should have research interests and experience in innovative molecula approaches to diagnostic imaging and/or targeted radiotherapy. The successful candidate will be expected to establish and/or maintain a strong, extramurally funded, research program at the interface of medicine and chemistry or biology. A commitment to excellence in teaching at the undergraduate and graduate levels will also be required The Department has a vigorous and growing research environment with first-rate instrumentation and maintains an active and successful program in Nuclear Pharmacy. Opportunities exist to participate in numerous interdepartmental programs, such as the Purdue Cancer Center, the Purdue Neuroscience program, and cross-disciplinary biomedi cal imaging initiatives. Candidates must hold a Ph.D.: junior-level candidates should have at least two years of postdoctoral experience. Minority and women scientists are especially encouraged to apply. Applicants should submit a curriculum vitae, a detailed description of research plans, and three letters of reference to: Imaging/Radiotherapy Faculty Search Committee, Department of Medicinal Chemistry and Molecular Pharmacology, Purdue University, School of Pharmacy, 1333 Robert Heine Pharmacy Building, West Lafayette, Indiana 47907-1333

Review of the candidates will begin October 1 2000 and continue until the position is filled.

Purdue University is an Equal Opportunity/ Affirmative Action Employer.

TENURE-TRACK APPOINTMENT UNIVERSITY OF TORONTO DEPARTMENT OF CHEMISTRY

The Department of Chemistry, University of Toronto, invites applications for a tenure-track position at the rank of ASSISTANT PROFESSOR in the field of NMR structure determination. Applicants should possess a Ph.D. in biological, biophysical, or bio-organic chemistry or related areas; a strong academic background; and an excellent research record. The appointment will be held at the campus of the University of Toronto at Mississauga. Current interests in biologically oriented chemistry at the University of Toronto at Mississauga include biosensors, magnetic resonance, bioinorganic chemistry, cellular signaling, natural products synthesis, metabolism, molecular biology, and toxicology. The successful candidate will be expected to conduct an active and innovative research program combining basic and applied studies with active collaboration with industrial partners. The position is primarily intended to serve the Master of Biotechnology program, and the candidate will have teaching responsibilities at the undergraduate and graduate levels that are largely dedicated to this purpose. Salary will be commensurate with qualifications and experience.

Applications will be accepted until September 30, 2000. Applicants should provide curriculum vitae, a list of publications, a statement of teaching interests, an outline of their proposed research, and should arrange to have three confidential letters of recommendation sent on their behalf to:

Chair of Chemistry
Department of Chemistry
University of Toronto
80 St. George Street, Room 151
Toronto, Ontario M5S 3H6 Canada
Website: www.chem.utoronto.ca

The University of Toronto is strongly committed to diversity within its community. The University especially welcomes applications from visible minority group members, women, aboriginal persons, persons with disabilities, and others who may contribute to further diversification of ideas.

FACULTY POSITION TUMOR IMMUNOLOGY

Building on strength in immunology and cancer biology, the Department of Pathology at the University of Iowa College of Medicine invites applications for a tenure-track faculty position in the area of tumor immunology. The successful applicant will be expected to implement a strong extramurally funded research program focused on the immunology of solid tumors. Applicants should have an M.D., Ph.D., or equivalent degree; postdoctoral experience; excellent communication skills; and a record of productivity in the area of solid tumor immunology. The selected applicant will receive a primary appointment in the Department of Pathology, with opportunity for secondary appointments in other departments and programs including the Interdisciplinary Immunology Program. The immunology and cancer biology community at the University of Iowa is composed of basic and clinical scientists working in a collaborative and supportive environment. The Interdisciplinary Immunology Program is active in graduate and postgraduate training and oversees both predoctoral and postdoctoral NIH training grants. Applications for any rank are welcome. Candidates at the ASSOCI-ATE or FULL PROFESSOR level must have an ongoing extramurally funded program. Salary will be commensurate with qualifications and experience. Applicants should submit curriculum vitae, research plans, and the names of three references to:

Vicki Brown
Department of Pathology
University of Iowa College of Medicine
Iowa City, IA 52242

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

POSITIONS OPEN

FACULTY POSITION MICROBIAL GENOMICS

The Department of Veterinary Pathobiology at the University of Minnesota invites applications for a fulltime tenure-track or tenured faculty position in mi crobial genomics at the level of ASSISTANT or ASSOCIATE PROFESSOR. We seek candidates who will pursue genetic and genomic approaches to microbial pathogenesis and/or host-pathogen interactions. We are particularly interested in outstanding candidates able to establish independent research programs and participate in ongoing training programs based in the Department. Rank (Assistant or Associate Professor) and term will depend on qualifications and experience consistent with collegiate and University policy. The selected candidates will become part of a major initiative in biomedical genomics at the University of Minnesota, receive a highly competitive salary and start-up package, and be eligible for interdisciplinary appointments in allied departments. Candidates must have a Ph.D. in the biological or biomedical sciences or an M.D./D.V.M. degree. A minimum of two years of postdoctoral research experience is also required. Experience with animal pathogens is desirable but not necessary. Review of applications will begin on August 15, 2000, or until the position is filled, but applicants are encouraged to apply at the earliest. To apply, please submit a letter of application, curriculum vitae, a statement on research and teaching goals; and the names and addresses (with e-mail and FAX numbers) of three references with knowledge of applicant's background and research abilities to: Vivek Kapur, B.V.Sc., Ph.D., Search Committee Chair, Department of Veterinary Pathobiology, University of Minnesota, 1971 Commonwealth Avenue, St. Paul, MN 55108. E-mail: johns231@tc.umn. edu (for inquiries only)

The University of Minnesota is an Equal Opportunity Educator and Employer.

The Section of Nephrology at the University of Chicago is seeking a Scientist with M.D. and/or Ph.D. degrees for a TENURE-TRACK FACULTY POSITION; academic rank will be commensurate with previous experience and accomplishments. We have developed a functional genomics facility containing the Affymetrix GeneChip® instrument system as well as complete instrumentation and expertise to produce and analyze custom-made microarrays. Our close collaboration with the Department of Computer Sciences assures relevant bioinformatics support. A tissue bank and laser capture microdissection microscopes are also present. Ongoing work in the Section is in immunopathology, although this research direction is not essential; accomplished scientists with research interests broadly related to nephrology are encouraged to apply. An attractive start-up package is available. Send curriculum vitae and names of references to: Dr. Richard Quigg, Chief, Section of Nephrology, The University of Chicago, 5841 South Maryland, MC5100, Chicago, IL 60637. E-mail: rquigg@medicine.bsd.uchicago.edu. Affirmative Action/Equal Opportunity Employer.

MOLECULAR CELL BIOLOGIST CANCER RESEARCH FACULTY POSITION

The Department of Pathology seeks an outstanding basic and/or clinical-translational cancer researcher for a nontenure-track faculty position at Wayne State University. Candidates for this position will be at the level of ASSISTANT PROFESSOR, with a recent M.D. or Ph.D. degree and a strong track record of academic achievement in basic cancer research in broad areas of molecular cell biology. The primary responsibility will be to participate in existing clinical translational cancer research and the development of an independent basic/clinical translational research program.

Please send letters of application, accompanied by curriculum vitae and names of three references, to: Department of Pathology, Wayne State University, Room 9374 Scott Hall, 540 East Canfield, Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR FUNCTIONAL GENOMICS/PROTEOMICS/ HUMAN MOLECULAR GENETICS

The University of New Mexico School of Medicine is seeking to fill a tenure-track position at the rank of Assistant Professor. Funding for this position, including an attractive start-up package, is provided through a Howard Hughes Medical Institute Research Resources Grant.

The successful applicant will develop an independent research program focused on the genetics of human disease, particularly the genetics of human cancer and cancer predisposition in multiethnic populations. The UNM School of Medicine's Cancer Center is one of 11 U.S. NCI SEER sites and is funded under the new NCI Cancer Genetics Initiative. Other areas of research emphasis include diabetes and asthma. Areas of scientific expertise sought include functional genomics, proteomics, gene-environment interactions, and the identification of polymorphisms that predispose to complex disorders. Participation in graduate and medical teaching activities also will be expected.

Requirements of the position include a Ph.D., M.D., or equivalent degree and postdoctoral research experience. Demonstrated productivity, as evidenced by peer-reviewed publications, teaching, and extramural research support, is highly desirable. For best consideration, applicants should submit the following before September 30, 2000: curriculum vitae, the names of three references, and a concise description of their research program or plan to: Dr. Jeffrey Griffith, Chair, Department of Biochemistry and Molecular Biology, University of New Mexico School of Medicine, Albuquerque, NM 87131-5221. UNM School of Medicine is an Equal Opportunity/Affirmative Action Employer and Educator.

STANFORD UNIVERSITY DEPARTMENT OF CHEMISTRY

TENURE-TRACK FACULTY APPOINT-MENT, open rank, in the general area of inorganic or organic chemistry. Applicants must be strongly motivated toward creative research and committed to teaching at the undergraduate and graduate levels. All applications must include the following materials: (1) current curriculum vitae and list of publications, (2) brief statement of research interests (three pages or less), and (3) three letters of reference sent on your behalf to the Chair of the appropriate search committee. Completed applications must be received by October 31, 2000. Appointments will commence on or after September 1, 2001.

Send applications in the general area of inorganic chemistry to: Chair, 2000-2001 Inorganic Search Committee, Department of Chemistry, Stanford University, Stanford, CA 94305. Send applications in the general area of organic chemistry to: Chair, 2000-2001 Organic Chemistry Search Committee (same address as for inorganic chemistry applications).

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

Loyola University Medical Center, Department of Microbiology and Immunology, is seeking applications and nominations of distinguished Academic Scientists to fill positions at the ASSISTANT, ASSO-CIATE, or FULL PROFESSOR level. The applicant may focus on any area of immunology, virology, or microbiology. Present Department faculty encompass active, funded research programs in molecular and cellular immunology, virus and bacterial structure and function, and cell biology and physiology (website: www.lumc.edu). Successful applicants for Assistant Professor will establish an active research program that complements the interests of the Department. Candidates for Professor will be expected to have external funding and to develop collaborative research with current faculty. Submit letters of application, curriculum vitae, research interests, and names and addresses of three references to: Thomas M. Gallagher, Ph.D., Search Committee Chair, Department of Microbiology and Immunology, Loyola University Medical Center, Maywood, IL 60153.

Problems d.

The challenge of creating new solutions drives the people of W.L. Gore & Associates. From Gore-Tex® fabric to synthetic blood vessels, we've created hundreds of standout products that provide new answers and unique value. This is just one of the reasons we've been named one of "The 100 Best Companies to Work for in America."

Experimental Pathologist

Individual will be responsible for the histopathology of prototype and pre-clinical biomedical devices and clinical sample evaluation. This involves planning projects, writing reports, presenting data, discussing evaluations/analyses and interacting with scientists, clinicians and product development engineers.

A DVM and board certification by the American College of Veterinary Pathologists or board eligibility or Ph.D. in Experimental Pathology (or related field) with experience with biomaterials is required. A thorough knowledge of light microscopy and immunohistochemical techniques, and ability to perform gross, microscopic and statistical analysis of animal studies are necessary. Excellent written and verbal communication skills and some travel required.



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DEAN OF THE COLLEGE OF OCEANIC AND ATMOSPHERIC SCIENCES

OREGON STATE UNIVERSITY invites nominations/applications for the position of Dean, College of Oceanic and Atmospheric Sciences (COAS). This is a 12-month, full-time appointment. The Dean provides leadership to a graduate research college with over 50 tenure track faculty members, 40 research scientists, 90 graduate students, and an annual budget of \$27 million. Candidates should have a distinguished record of academic achievement; possess a Ph.D. or equivalent; and have administrative expertise or demonstrated potential to provide effective management and leadership to a dynamic college. Research facilities include two research vessels, advanced computing resources, and state-of-the-art analytical instrumentation. The College conducts research and instructional programs in Oceanography, Geophysics, Atmospheric Sciences, and Marine Resource Management. For more information about COAS and OSU go to http://www.oce.orst.edu. The successful candidate will be awarded the academic rank of tenured professor. Salary is commensurate with qualifications. For full consideration apply by 11 September 2000; the position will remain open until filled. A complete application will consist of a letter of interest, a current curriculum vitae and the names, addresses, phone numbers and e-mail addresses of four to five references. Applications and nominations should be sent to:

Chair

Search Committee for Dean
College of Oceanic and Atmospheric Sciences
104 Ocean Admin Bldg
Oregon State University
Corvallis, OR 97331-5503

Inquiries about the position may be directed to Dr. Tim Cowles by phone (541-737-3268), e-mail (tjc@oce.orst.edu) or by Fax (541-737-2064). OSU is committed to diversity and multiculturalism. OSU is an AA/EEO employer and has a policy of being responsive to the needs of dual career couples.

WAYNE STATE UNIVERSITY

DFAN

COLLEGE OF PHARMACY AND ALLIED HEALTH PROFESSIONS

Wayne State University invites applications and nominations for the position of dean of the College of Pharmacy and Allied Health Professions. The dean is the chief academic officer of the college and reports to the provost of the university.

The successful candidate will have:

- · An earned doctorate
- A record of research and scholarly achievement appropriate for a tenured professor
- An understanding of and the ability to provide leadership to the broad educational programs of the college
- A record of organizational leadership through collaborative faculty relationships
- A record of, or demonstrated interest in, the development of research capacity and resources within a college of Pharmacy and Allied Health Professions and the health science arena
- An understanding of the current position and the future opportunities of a college of Pharmacy and Allied Health Professions in the context of the health science professions

Responsibilities:

The dean provides leadership for a college dedicated to excellence in teaching, research, scholarship and community service. As the chief administrative officer of the College of Pharmacy and Allied Health Professions, the dean represents the college at the university level working collaboratively with university administrators and deans from other colleges. The dean's responsibilities, among others, include resource development, strategic planning program development and faculty hiring and development.

University:

Wayne State University is a national, comprehensive research university with 14 schools and colleges offering more than 350 academic programs, including social work, business, nursing, education, urban planning, liberal arts, science, law and engineering to more than 31,000 students. An urban university located in Detroit, Michigan, Wayne State is a Carnegie Research University I institution and attracts one of the largest public graduate and professional school enrollments in the country, with more than 14,000 students.

College of Pharmacy and Allied Health Professions:

The college was created in 1974 by the merger of the College of Pharmacy, originally founded in 1924, and several Allied Health programs in the School of Medicine. The college is home to 16 degree programs offered by nine academic departments: Anesthesia; Clinical Laboratory Science; Mortuary Science; Occupational and Environmental Health Sciences; Occupational Therapy; Pharmaceutical Sciences; Pharmacy Practice; Physical Therapy; and Physician Assistant Studies. College programs are accredited by nine different accrediting agencies. The college has 84 full-time faculty positions. Agreements with area health care institutions provide salary reimbursement for 12+ faculty who have practice or research responsibilities in those institutions. Total enrollment at all levels in the college was 998 students in fall, 1998; 53 percent are in the allied health programs and 47 percent in the pharmacy programs.

New Building

Construction is under way on a new \$64 million facility (270,000 square feet) to house academic and research programs. The six-level structure, which will form the southwest gateway to the Detroit Medical Center (DMC), will be in close proximity to the Rehabilitation Institute of Michigan (RIM), four major DMC hospitals, the Wayne State University School of Medicine, and the Shiffman Medical Library. The building is scheduled for completion in 2002.

Appointment:

Salary is competitive and dependent on the qualifications and experience of the selected candidate. Review of applications will begin October 1, 2000 and will continue until the position is filled.

A letter of interest and a copy of the curriculum vitae should be sent to:

Daniel A. Walz, Professor of Physiology and Chair of the Pharmacy
and Allied Health Professions Deep Search Committee Wayne State

Daniel A. Walz, Professor of Physiology and Chair of the Fnarmacy and Allied Health Professions Dean Search Committee, Wayne State University, School of Medicine, 4234 Scott Hall, Detroit, Michigan 48201, d.a.walz@wayne.edu

Additional information about the College of Pharmacy and Allied Health Professions may be obtained from the Web site at http://wiz2.pharm.wayne.edu/deansearch.html.

Wayne State University is an equal opportunity/affirmative action employer.

ANIMAL BEHAVIORIST, University of California, Davis: The Division of Biological Sciences, University of California, Davis, invites applications and nominations for a position in the Section of Evolution and Ecology at the tenure-track ASSISTANT PROFESSOR level. Candidates must have a Ph.D. (or equivalent) in the biological sciences or related fields and are expected to have a strong record of empirical research in animal behavior within the context of evolution or ecology. Special consideration will be given to research programs in which approaches, techniques, and insights from animal behavior are applied to problems in ecology or evolutionary biology. Teaching responsibilities may include an undergraduate course in introductory biology, evolution, or ecology, and specialized courses in animal behavior. Applicants should send (1) curriculum vitae, (2) copies of no more than five published and in-press papers, (3) a description of current and projected research, and (4) a summary of teaching interests and experience. Have three letters of recommendation sent to: Judy Stamps, Chair, Animal Behavior Search Committee, Section of Evolution and Ecology, University of California, One Shields Avenue, Davis, CA 95616-8755. Closing date: open until filled; but all application materials, including letters of recommendation, must be received before September 15, 2000, to assure full consideration. The University of California is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to the development of a climate that supports Equality of Opportunity and respect for differences.

SYSTEMS NEUROSCIENTIST COGNITION AND NEUROSCIENCE **PROGRAM**

School of Human Development The University of Texas at Dallas

The Cognition and Neuroscience Program in the School of Human Development at The University of Texas at Dallas seeks a Systems Neuroscientist whose research interests relate to the study of behavior. This individual will add to our research programs, investigating many aspects of behavior including neural plasticity, aging, memory, cortical structure and function, and sensory processing. Appointment is tenure track at the ASSISTANT or ASSOCIATE PROFES-SOR level beginning in 2001. For information, contact Larry Cauller at website: www.utdallas.edu/ ~lcauller/search. We have a strong and growing graduate (M.S. and Ph.D.) program with top academic ratings and excellent research facilities, and we also offer a B.S. in neuroscience. Send curriculum vitae and three letters of reference to: Academic Search Number 565, The University of Texas at Dallas, P.O. Box 830688, Richardson, TX 75083-0688. Review of applicants will begin September 2000 and continue until the position is filled. The University of Texas at Dallas is an Affirmative Action/Equal Opportunity Employer and strongly encourages applications from candidates who would enhance the diversity of the University's faculty. Indication of sex and ethnicity for Affirmative Action statistical purposes is requested but not required.

ASSISTANT PROFESSOR **PHARMACOLOGY**

Midwestern University College of Pharmacy, Glendale, Arizona, invites applications/nominations for a pharmacology faculty position in its newly established (1998) Doctor of Pharmacy program. Applicants should possess a Ph.D. in pharmacology or closely related discipline and have the ability to communicate clearly and effectively. Preference will be given to individuals with a degree in pharmacy.

Applicants should include a statement describing their teaching and research interest/experience, curriculum vitae, and names and contact information of three references. Review of applicants begins immediately and will continue until the position is filled. Send to: Edward Fisher, Ph.D., R.Ph., Chair, Department of Pharmaceutical Sciences, Midwestern University, CPG, 19555 North 59th Avenue, Glendale, AZ 85308. E-mail: efishe@arizona. midwestern.edu; Telephone: 623-572-3574. Midwestern University is an Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITIONS MICROBIAL FUNCTIONAL GENOMICS Division of Microbial Biochemistry and Biotechnology

The Microbial Biochemistry and Biotechnology Division of the Department of Biochemistry, Molecular Biology, and Biophysics (BMBB), in conjunction with the BioProcess Technology Institute, seeks to hire two faculty members in the area of microbial functional genomics. The University of Minnesota is broadly committed to genomics research. Developments include a new building to house the Center for Microbial and Plant Genomics on the St. Paul campus and the Center for Biomedical Genomics on the Minneapolis campus. There is a newly renovated functional genomics mall in the basement of Gortner and Snyder Halls which includes high-throughput screening equipment, DNA sequencing facilities, a mass spectrometry suite for proteomics, and a microscopy and imaging facility. For more information, see website: http://biosci.cbs.umn.edu/BMBB/mbb.html.

The search is open to exceptional candidates at the level of ASSISTANT, ASSOCIATE, or FULL PROFESSOR. The faculty candidates will conduct research in either or both computational and experimental aspects of microbial genomics. Examples of specific areas of microbial functional genomics to be considered are bioinformatics, elucidating biochemical function via genomic analysis, metabolic engineering, microbial biocatalysis, or evolutionary aspects of genomics. All candidates must have a Ph.D. and/or M.D. degree. Desired experience includes at least two years of postdoctoral or equivalent experience and a strong publication record. Applications will start to be reviewed on August 15, 2000, but the search will remain open until the positions are filled. To apply, please send curriculum vitae, statement of research interests, and three letters of recommendation that consider both research and teaching potential to: Professor Lawrence Wackett, Head of the Search Committee, c/o Mr. Jeff Schaub, University of Minnesota, Department of Biochemistry, Molecular Biology, and Biophysics, 6-155 Jackson Hall, 321 Church Street, S.E., Minneapolis, MN 55455. An application sent by e-mail to: schaub@ biosci.cbs.umn.edu should be followed by a hard copy sent to the address above.

TWO TENURE-TRACK APPOINTMENTS UNIVERSITY OF TORONTO DEPARTMENT OF CHEMISTRY

The Department of Chemistry, University of Toronto, invites applications for two tenure-track positions at the rank of ASSISTANT PROFESSOR in the area of organic chemistry and biological chemistry. The appointments are at both the St. George (Downtown) and Mississauga (Erindale) campuses of the University of Toronto. Applicants should possess a Ph.D. in organic chemistry, biological chemistry, or related fields; a strong academic background; and an excellent research record. The successful candidate will be expected to conduct an active and innovative research program and to teach at both the undergraduate and graduate levels. Salary will be commensurate with qualifications and experience.

Applications will be accepted until September 30, 2000. Applicants should provide curriculum vitae, a list of publications, a statement of teaching interests, an outline of their proposed research (up to five pages of detailed plans should also be included), and should arrange to have three confidential letters of recommendation sent on their behalf to:

> Chair of Chemistry Department of Chemistry **University** of Toronto 80 St. George Street, Room 151 Toronto, Ontario M5S 3H6 Canada Website: www.chem.utoronto.ca

The University of Toronto is strongly committed to diversity within its community. The University especially welcomes applications from visible minority group members, women, aboriginal persons, persons with disabilities, and others who may contribute to further diversification of ideas.

POSITIONS OPEN

TENURE-TRACK FACULTY POSITIONS IN MEDICAL SCIENCES FACULTY OF MEDICINE Memorial University of Newfoundland

Applications are invited for up to eight tenure-track faculty positions in the Division of Basic Medical Sciences, Faculty of Medicine, Memorial University of Newfoundland, St. John's, Newfoundland, Canada. The Division consists of 33 faculty members and has research strengths in cancer research, cardiovascular/ renal science, immunology, and neuroscience. Applications in any of these or overlapping areas are welcomed. Applicants must hold an M.D. or Ph.D. degree and postdoctoral training. The successful candidates are expected to develop externally funded research programs and participate in medical undergraduate and graduate teaching. Additional information regarding the Faculty of Medicine and Memorial University of Newfoundland may be found at website: http://www.med.mun.ca/basic/.

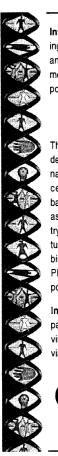
Memorial University is the largest university in Atlantic Canada. As the province's only university, Memorial plays an integral role in the educational and cultural life of Newfoundland and Labrador. Offering diverse undergraduate and graduate programs to almost 16,000 students, Memorial provides a distinctive and stimulating environment for learning in St. John's, a very safe, friendly city with great historic charm, a vibrant cultural life, and easy access to a wide

range of outdoor activities.

To apply, send curriculum vitae, description of research interests, and the names of three references to: Associate Dean, Division of Basic Medical Sciences, Faculty of Medicine, Health Sciences Centre, Memorial University of Newfoundland, St. John's, Newfoundland A1B 3V6 Canada. Application review will begin within a month of this advertisement. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada; however, applications from all qualified candidates are encouraged. Memorial University is committed to the principles of Employment Equity.

The School of Chemistry and Biochemistry of the Georgia Institute of Technology seeks to fill several TENURE-TRACK FACULTY POSITIONS. Exceptional candidates in all areas are encouraged to apply; however, particular needs exist in the area of organic (biorganic or polymer) chemistry, surface chemistry, bioseparations, and molecular and structural biology. Outstanding candidates for advancedrank positions are strongly encouraged. Interdisciplinary candidates will be considered for joint appointments with other departments. Further information is available on our website: www.chemistry.gatech. edu. Candidates at the entry level should send an application letter, curriculum vitae, a summary of research plans, and should request three letters of reference. Advanced candidates should send curriculum vitae and the names of three references. All materials and requests for information should be directed to: Chair, School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, GA **30332-0400**. Applications will be considered beginning October 15, 2000, but applications past that date will be considered until the positions are filled. Georgia Tech is an Equal Education/Employment Opportunity Institution.

POSTDOCTORAL POSITION available to study enterobacterial survival in municipal waste water using taxon-specific SSU rRNA probes, T-RFLP, and immunofluorescent protein profiling (Appl. Environ. MicroBiology 65:4181, 1999). Ph.D. and experience in molecular ecology or immunofluorescent microscopy required. Salary commensurate with experience. Please send curriculum vitae, research summary, and three letters of reference to: Dr. Paul Blum, University of Nebraska, E234 Beadle Center for Genetics, Lincoln, NE 68588-0118. E-mail: pblum@ biocomp.unl.edu; website: http://microbiology. unl.edu/BlumLab.html. University of Nebraska Lincoln is committed to Affirmative Action/Equal Employment Opportunity and ADH/504. If you require an accommodation, please Telephone: 402-472-2769.



Invitrogen, a growing company delivering innovative products for gene cloning and expression, is currently seeking highly motivated individuals to fill the following position:

INSECT GENE EXPRESSION SCIENTIST

The successful candidate will explore and develop novel technologies for recombinant protein expression in cultured insect cells. Extensive experience with baculovirus protein expression is required, as are strong skills in protein biochemistry, molecular biology and cell tissue culture. A background in glycobiology or cell biology is a plus. This position requires a Ph.D. with a minimum of 2 years' postdoctoral experience.

Invitrogen offers an aggressive benefits package and rewarding professional environment. Please submit your resume via our Web site, fax or mail. EOE/M/F.



1600 Faraday Ave., Carlsbad, CA 92008 Fax: (760) 602-6693 • www.invitrogen.com



Program of Angiogenesis Research

The Department of Cancer Biology and the Program of Cancer Drug Discovery and Development are seeking a research scientist to develop a research program in angiogenesis. A major feature of the program in Angiogenesis Research would be a focus on the interactive cellular biology and molecular signal transduction pathways of endothelial cells. The program leader will be expected to lead a strong investigative program whose purpose will be the development and identification of mechanisms of control of angiogenesis for therapeutic intervention. Thus the angiogenesis program would be expected to develop validated molecular targets for antiangiogenesis therapies for cancer. The successful applicant would be expected to be a full participant in the identification of therapeutic strategies for clinical investigation in a translational team approach with the Cancer Drug Discovery and Development Program. The successful applicant would also be expected to be proactive in integrating their program in angiogenesis with other investigators at the Cleveland Clinic in utilizing angiogenesis or antiangiogenesis for treatment of a broad range of human diseases affected by altered requirements for angiogenesis. The Cleveland Clinic Foundation is committed to recruiting an outstanding investigator at the assistant, associate or full staff level. The successful applicant would have an appointment in the Department of Cancer Biology of the Lerner Research Institute and be closely affiliated with the Program of Cancer Drug Discovery and Development of the Cleveland Taussig Cancer Center. The appointment would be accompanied by an attractive recruitment package of institutional resources and funding reflective of the academic level of the appointment. The Lerner Research Institute of the Cleveland Clinic Foundation, under the leadership of George Stark and comprising over 100 independent investigators and over 800 employees has a long-standing commitment to excellence in biomedical research with an annual budget in excess of \$100 million. Applications including curriculum vitae and names and addresses of three references should be sent to the chairman of the angiogenesis recruitment committee.

Dr. Warren D. W. Heston
Director, Research Program in Prostate Cancer
Department of Cancer Biology ND50
The Lerner Research Institute
Cleveland Clinic Foundation
9500 Euclid Avenue
Cleveland, Ohio 44195

The Cleveland Clinic Foundation is an Equal Opportunity Employer

Director, Public Policy

CONSUMERS UNION testing laboratories offers a fulfilling career opportunity for a POLICY and PUBLIC SERVICE professional to head its Public Service Department.

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Our position offers excellent benefits and competitive salary. Come join us and make a difference through an organization whose mission is to TEST, INFORM, and PROTECT the consumers it serves. To apply, send detailed resume and cover letter indicating salary requirement to: Consumers Union, Human Resources Dept., Box HC, 101 Truman Avenue, Yonkers, NY 10703. EOE. Only those applicants considered will be contacted.

Consumer Reports

Published By Consumers Union



McMaster University Faculty of Science Canada Research Chairs

The Faculty of Science at McMaster University anticipates nominating approximately 20 distinguished scientists for Canada Research Chairs over the next five years. These positions will be equally divided among Tier I appointments (normally at the rank of Professor) and Tier II appointments (at the rank of Assistant or Associate Professor).

Tier I appointments are for individuals who are recognized internationally by their peers as leaders in their fields; Tier II appointments are for individuals who are identified as having the potential to lead their fields.

The funding for these Chairs is provided by the federal government and the allocations are based on each University's shares of the funding it receives from the Natural Sciences and Engineering Research Council (NSERC), the Social Sciences and Humanities Research Council (SSHRC), and the Canadian Institutes for Health Research (CIHR; formerly the Medical Research Council). The preponderance of funding received by the Faculty of Science is from NSERC although we expect to appoint some Chairs whose research programs would be affiliated with CIHR or SSHRC. Further details about the program are available by consulting:

http://www.sshrc.ca

Scientists who are interested in our areas of research excellence should consult our web-site:

http://www.mcmaster.ca

and then submit a CV and the names of three referees to the academic unit that best matches their disciplinary expertise. There is no restriction with regard to nationality or residence and the positions are open to all candidates. Offers will be made in keeping with immigration requirements associated with the CRC program.

TENURE-TRACK FACULTY CENTER FOR COMPUTATIONAL BIOLOGY Washington University St. Louis

Washington University takes great pride in announcing the formation of the Center for Computational Biology (CCB), a joint undertaking of the Departments of Biochemistry and Molecular Biophysics, of Biomedical Engineering, and of Genetics. New faculty are sought to complement and expand the existing strengths in bioinformatics (Shawn Eddy, Warren Gish, David States, Gary Stormo), in protein modeling (Jay Ponder, Jeff Scolnick), and in molecular design (Garland Marshall). A search is now underway for faculty who will have their primary appointment in the Department of Biochemistry and Molecular Biophysics. A new graduate program in computational biology has been organized, along with the establishment of the Center.

Applications for appointments at any TENURE-TRACK PROFESSORIAL LEVEL are sought. Applicants from field as diverse, for example, as modeling biological complexity, genomics and information theory, and prediction of macromolecular structure and macromolecular interactions are welcome. Please send your application with three letters of support to:

Professor Garland R. Marshall Chair, Search Committee Center for Computational Biology Washington University 700 South Euclid Avenue St. Louis, MO 63110

University of Washington POSTDOCTORAL POSITIONS: hematopoietic stem cell gene therapy. The University of Washington is recruiting Postdoctoral Fellows to train in a highly interactive, NIHfunded program involving both laboratory and clinical research in the field of hematopoietic stem cell gene therapy. Current projects include the development of virus vectors for human globin genes, stem cell mobilization studies in patients with sickle cell disease, and eventually clinical gene therapy trials for the β-chain hemoglobinopathies. Resources include several well-funded and fully equipped research laboratories in the Divisions of Medical Genetics and Hematology, modern animal facilities, and a recently renovated General Clinical Research Center including a GMP facility to support clinical gene and cell therapy trials. Applicants should have a strong background in molecular/cellular biology, hematology, or related fields and be capable of working with a high degree of independence. Applicants should send curriculum vitae, a list of three references, and a statement of research interests to: Dr. George Stamatoyannopoulos, Medical Genetics, Box 357720, University of Washington, Seattle, WA 98195-7720. E-mail: gstam@u.washington.edu. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS are available immediately to study cell-mediated immune responses of human volunteers immunized with genetically engineered vaccine strains of Salmonella typhi and Shigella or malaria vaccine candidates. Studies include antigen presentation, MHC-restriction, cloning and characterization of cytotoxic and helper T cells, identification of protective epitopes, role of dendritic cells, microarray profiling, and manipulation of cytokine production patterns to elucidate their role in the outcome of immune responses to vaccination. The candidate should have a Ph.D. in microbiology/immunology or M.D. degree and experience in the study of immunological mechanisms. Experience in cellular and molecular biology, microarray, and/or tetramer technologies is highly desirable. Send curriculum vitae and the names of three references to: Marcelo B. Sztein, M.D., Chief, Cellular Immunology and Flow Cytometry Section, Center for Vaccine Development, 685 West Baltimore Street, Room 480, University of Maryland, Baltimore, MD 21201. E-mail: msztein@medicine.umaryland.edu. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN



The Agricultural Research Service's Henry A. Wallace-Beltsville Agricultural Research Center, Weed Science Laboratory, in Beltsville, Maryland, is seeking a permanent interdisciplinary SUPERVISORY PLANT PHYSIOLOGIST/RESEARCH AGRON-OMIST/RESEARCH HORTICULTURIST to serve as research leader of the laboratory. Duties include managing laboratory research programs (sustainable weed management, biocontrol of weeds, and control of narcotic plants) and conducting research in the area of weed control strategies that are compatible with sustainable agriculture farming systems. Salary: GS-14, \$71,954 to \$93,537; GS-15, \$84,638 to \$110,028 per annum plus benefits. U.S. citizenship is required. Candidates must request a copy of the vacancy announcement ARS-XOE-4050 by calling Telephone: 301-504-1484 or via website: www.ars. usda.gov in order to respond/submit specific information. Applications must be postmarked by September 1, 2000. U.S. Department of Agriculture is an Equal Opportunity Provider and Employer.

ECOLOGIST, DIVISION OF BIOLOGY THE UNIVERSITY OF CALIFORNIA SAN DIEGO

The Section of Ecology, Behavior, and Evolution of the Division of Biology at the University of California, San Diego invites applications for an outstanding Ecologist at the junior faculty level (ASSISTANT or BEGINNING ASSOCIATE PROFESSOR). The candidate will conduct research in the area of community ecology, but the field of specialization is open. The appointee will join the growing faculty in contributing to the development and testing of ecological and evolutionary theories relevant to problems of community organization and conservation. The successful candidate must have an excellent record as a Research Scientist with a demonstrated commitment to teaching at both undergraduate and graduate levels. Distinguished academic credentials, including a Ph.D. and postdoctoral experience, are required. The level of appointment will be commensurate with qualifications and experience with salary based on University of California pay scale. Please submit curriculum vitae; publication list; synopsis of research and teaching interests; and names and contact information (email, FAX, and telephone numbers) for five potential references by September 30, 2000, to: EBE Search Committee, Division of Biology 0346, 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.

RESEARCH CHEMIST, INTERMEDIATE, wanted to conduct multiple-step synthesis of a variety of molecules to correlate the chemical structure with biological activity trend in an effort to discover biological active compounds; plan and carry out experiments with minimal supervision; provide solutions to a variety of technical problems; utilize literature to identify and select relevant experimental protocols; isolate/purify compounds using TLC, recrystallization, and distillation; HPLC, flash chromatography, characterize compounds utilizing NMR and mass spectroscopy; and write research reports and make presentations. The position requires a Master's degree in organic chemistry or related degree; one year of experience in a related occupation as a Chemical Engineer or Chemist; at least one graduate-level laboratory course, which includes isolating/purifying compounds using flash chromatography and recrystallization; and one graduate course each in organic structure analysis, advanced organic reactions, and advanced synthesis. Forty hours per week; 8 a.m. to 5 p.m.; \$50,000 per year. Send résumé to: Ms. J. Gaston, Division of Workforce Development, 4040 Seven Hills Drive, Suite 166, Florissant, MO 63033. Refer to Job Number 232920. Employer-paid

POSITIONS OPEN

ADMIRAL PIHL ENDOWED CHAIR IN NEUROSCIENCE

Department of Physiology and Neuroscience Medical University of South Carolina

Applications are invited to fill an Endowed Chair in the Department of Physiology and Neuroscience at the Medical University of South Carolina. The position is tenure track at the level of PROFESSOR. The applicant will be expected to play a significant role in the growth of the Neuroscience Institute. The applicant must have a Ph.D., M.D., or the equivalent and have a record of sustained extramural funding in the neurosciences. Priority will be given to individuals with research programs that augment areas of existing research excellence including aging, cell signaling, neuroregeneration, retinal and cochlear physiology, neuropsychiatric disorders, and substance abuse. Outstanding laboratory space and development funds are available as well as the potential to make an additional tenure-track hire. Review of applications will begin September 1, 2000, and continue until the position is filled. Send complete curriculum vitae, statement of research interests and accomplishments, and five letters of reference to: Peter Kalivas, Ph.D., Department of Physiology/Neuroscience, Medical University of South Carolina, P.O. Box 250677, Charleston, SC 29425. E-mail: kalivasp@musc. edu; website: www2.musc.edu/PGY/PGY.html.

Medical University of South Carolina is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately for an individual with expertise in molecular biology, biochemistry, or immunocytochemistry to study cellular and subcellular events involved in inflammatory and epithelial changes in the lung. The studies utilize novel and innovative in vivo and in vitro approaches to examine biological responses. Participation in studies aimed at analyzing cytokines, cell adhesion molecules, cytoskeleton, inflammation, and epithelial in injury and immunological responses is expected.

Deepak K. Bhalla, Ph.D.
Department of Occupational and
Environmental Health Sciences
627 Shapero Hall
Wayne State University
Detroit, MI 48202
Telephone: 313-577-3980
E-mail: DeepakBhalla@wayne.edu

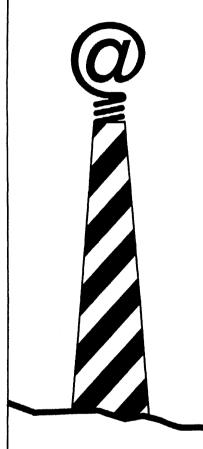
Wayne State University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available to study apoptosis regulation by cellular and viral proteins. In this project, biochemical activities of cellular pro- and antiapoptotic proteins that complex with adenovirus E1B–19K and BCL–2 proteins are being investigated. Applicants should have a Ph.D. with a background in molecular biology and cell biology. Please send or e-mail curriculum vitae and names of references to: Dr. G. Chinnadurai, Institute for Molecular Virology, Saint Louis University School of Medicine, 3681 Park Avenue, St. Louis, MO 63110. E-mail: chinnag@slu.edu; FAX: 314-577-8406. Saint Louis University is a Catholic Jesuit institution dedicated to education, research, and health care and is an Equal Opportunity Employer.

RESEARCH SCIENTIST

A new research position is available to examine the regulation of normal and malignant hematopoietic proliferation and differentiation. Current projects include the molecular characterization of a novel family of nuclear migration genes utilizing gene disruption, transgenic mice, and protein biochemistry. Strong background in molecular biology and at least four years of laboratory experience are required. If interested, please send your curriculum vitae and letter of interest to: Weis Center for Research, Attention: Suann Klechinski, Administrative Assistant, 100 North Academy Avenue, Danville, PA 17822-2601.

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CENTRAL NERVOUS SYSTEM EXPERTISE

SkeleTech, Inc. is a unique, therapeutically based contract research organization (CRO) that is focused on providing high value pre-clinical research services to the pharmaceutical and biotechnology industry. The Company has established capabilities and expertise in bone biology and is now expanding its range of services to include central nervous system biologies. SkeleTech is therefore recruiting the following key positions:

Scientist/Study Director #0016N

To provide expertise in establishing behavioral models of cognitive impairment and project leadership for client-sponsored studies. Qualified applicants will possess a Ph.D. and two plus years applicable experience in a behavioral lab with documented ability in the use of specific techniques for evaluating working and geospacial memory, acquisition and attention. The use of these techniques within the context of stereotaxic lesion models and/or transgenic models of Alzheimer's Disease is desirable. The ideal candidate will also possess exceptional written and oral communication skills and will have previous experience in a CRO environment.

Research Associate/Study Coordinator #0014N

To play an important role in establishing and verifying models of stroke and coordinating client-sponsored research programs. Qualified applicants will possess a B.S. degree and 2+ years experience in neurobiology research including practical experience with the intraluminal focal monofilament MCA occlusion model. Strong word processing and data analysis skills are a prerequisite and experience in a CRO and/or GLP environment a plus.

Located in Bothell, Washington, SkeleTech is situated in the midst of the beautiful Puget Sound Region of the Pacific Northwest. SkeleTech offers an energetic and challenging environment with a competitive compensation and benefits package including equity participation. Interested candidates should submit their CV referencing the position number to: SkeleTech, Inc., ATTN: Human Resources, 22002 26th Avenue SE, Suite 104, Bothell, WA 98021 or jobs@skeletech.com.

Skeletech is an Equal Opportunity Employer



COLUMBIA UNIVERSITY College of Physicians and Surgeons Assistant Professor Positions in Bioinformatics

The Division of Bioinformatics in Columbia University's Department of Medical Informatics seeks to hire two assistant professors who will also be members of the Columbia Genome Center. Areas of bioinformatics research interest are broad and include molecular and cellular structure and function, genomics, proteomics, chip array analysis, pharmacogenomics, and neuroinformatics. Applicants must have a Ph.D. in bioinformatics or in a related field. They must also demonstrate evidence of substantial computational expertise and an ability to teach technical courses in computational biology and computer methodology. The position includes shared responsibility for the development of a bioinformatics curriculum and an interest in forging scholarly links with other departments in the University.

Applications should be sent to Professor Barry Honig, Division of Bioinformatics, Department of Medical Informatics, Columbia University, 622 W. 168th St., VC-5, New York, NY 10032. Applications can also be sent via e-mail to Ms. Rita Lenertz (rita.lenertz@columbia.edu) or by fax to (212) 305-3302. The applicant should arrange for three letters of recommendation to be sent to the same address.

Columbia University is an equal opportunity/affirmative action employer and encourages applications from women and underrepresented minorities.

FACULTY POSITION Assistant/Associate Professor Molecular/Cell Biology

The Pennington Biomedical Research Center in Baton Rouge, LA is seeking an individual with proven experience in various aspects of molecular and mammalian cell biology. The candidate should have a proven track record of research funding in molecular biology preferably in the field of obesity/ diabetes research. Successful candidates will develop a research program and lead a multidisciplinary team whose mission is a better understanding of the physiological, cellular and molecular mechanisms involved in the development of human obesity and in the response to physical training. Qualifications: Ph.D. in molecular biology or related area; experience using software applications to search the human genome database and experience in genomic DNA and gene expression are necessary. Resumes will be accepted until the position is filled. Please send curriculum vitae and names of three references to

Evelyn P. Bennett
Assistant Director, HRM
Pennington Biomedical Research
Center
6400 Perkins Road,
LA 70804-4124
REF: Ravussin- Faculty (Molecular/
Cell Biology)

LSU/PBRC IS AN EQUAL OPPORTUNITY/ AFFIRMATIVE ACTION EMPLOYER

The Gazes Cardiac Research Institute at the Medical University of South Carolina invites applications for a full-time tenure-track appointment at the level of ASSISTANT or ASSOCIATE PROFESSOR. Applicants must hold a Ph.D. or M.D. degree and have had at least two years of postdoctoral training. Applicants should have a demonstrated background in the area of cellular structure-function relationships underlying the control of cellular growth and phenotype. Preference will be given to those applicants who have a strong interest in the application of recent developments in this area of cell biology to the study of the growth and development of cardiac muscle; a background in striated muscle biology is not a prerequisite. The successful candidate will be expected to join a highly collaborative basic research group, all of whom have primary interests in the mechanisms of hypertrophy in adult myocardium. Interested applicants should contact and/or send their curriculum vitae and a description of their re-search experience and interests to: **Dr. George** Cooper, Director, Gazes Cardiac Research Institute, 114 Doughty Street, P.O. Box 250773, Medical University of South Carolina, Charleston, SC 29403. E-mail: cooperge@musc.edu; FAX: 843-876-5068; website: www.musc.edu/ gazes. Medical University of South Carolina is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR

The Department of Biology at the University of North Carolina at Chapel Hill has conditional approval to seek an outstanding candidate for a tenuretrack position at the Assistant Professor level to join an interactive plant biology group. This individual will use state-of-the-art genetic, molecular, biochemical, and/or cellular approaches to address fundamental questions in Arabidopsis biology. Candidates using high-throughput genomics/proteomics approaches are also encouraged to apply. Candidates must have a Ph.D. and have significant and productive postdoctoral research experience. Applicants should include curriculum vitae, concise descriptions of current and future research directions and teaching, and four letter of recommendation to: Chair, Plant Biology Search Committee, Department of Biology, CB#3280, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599–3280. To learn more about the Department of Biology, visit our website: http://www.bio.unc.edu/. Applications should be received by November 15, 2000, to ensure fullest consideration. The University of North Carolina is an Equal Opportunity/Affirmative Action Employer and strongly encourages applications from women and minorities.

FACULTY POSITION EXPERIMENTAL PHYSICAL CHEMISTRY University of California, Los Angeles (UCLA)

The Department of Chemistry and Biochemistry of the University of California, Los Angeles, intends to make a TENURE-TRACK FACULTY AP-POINTMENT in experimental physical chemistry. Candidates at all ranks will be considered. Candidates must give evidence of great distinction (for a senior appointment) or exceptional promise (for a junior appointment) in research and teaching. Applications should include curriculum vitae, a statement of research accomplishments and description of proposed research (not exceeding four pages), reprints of representative publications, and a list of professional references. Junior faculty applicants should arrange to have three letters of recommendation sent at the time of application. To assure consideration, all application materials should be received by November 1, 2000, and directed to: Chair, Physical Chemistry Search Committee, Department of Chemistry and Biochemistry, University of California, Los Angeles, CA 90095-1569. FAX: 310-206-8010. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN



AtheroGenics, Inc., is a biopharmaceutical company engaged in the discovery and development of products for the diagnosis and treatment of cardiovascular and other inflammatory diseases. Currently, we have an opening for a highly motivated individual to fill the position of SCIENTIST or SENIOR SCI-ENTIST in the preclinical pharmacology group. You will be part of a team responsible for developing in vivo models of human pathophysiology and efficacy testing of therapeutic candidates. Your major responsibilities will include the design and implementation of animal models of inflammation and disease, supervision of junior scientists, project management, and communication of ideas and progress to research team and senior management. The qualified candidate will possess a D.V.M. or Ph.D. degree in pharmacology, biology, or related discipline. At least three years of relevant postdoctoral experience in physiology or pharmacology with an emphasis on inflammatory diseases is preferred. The appropriate candidate should have hands-on expertise in animal model development with a solid track record of achievement. Good interpersonal skills, ability to work independently, creativity, teamwork, and a multidisciplinary approach are required for success. AtheroGenics offers an innovative and exciting scientific environment with competitive salaries, stock option plan, and a genrésumé to: AtheroGenics, Human Resources, Job Code: CS-3; 8995 Westside Parkway, Alpharetta, GA 30004. Apply via our website: www.atherogenics.com. FAX: 678-393-8616. No telephone calls, please. Equal Opportunity Employer

CURATOR OF BIRDS THE DELAWARE MUSEUM OF NATURAL HISTORY

The Delaware Museum of Natural History, specializing in birds and mollusks, seeks a Curator of Birds. Responsibilities include collection-based and field research on avian systematics, including aspects of natural history, ecology, or behavior (local relevance preferred); assisting in development of exhibits and public programs; overseeing the vertebrate collections and research library; and general administration of the Bird Department. Requirements: Ph.D. with a specialty in ornithology; three years of curatorial experience; experience in avian systematics; demonstrated research, publication, and grant-writing record. Send research interests, curriculum vitae, and three references to: Human Resources, Delaware Museum of Natural History, Box 3937, Wilmington, DE 19807-0937 by September 20, 2000. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

Two exciting Postdoctoral positions available in cardiac energetics and cutting-edge magnetic resonance imaging techniques to study cardiac function and metabolism in transgenic mice or to conduct clinical research in human cardiac metabolism and function, using in vivo magnetic resonance imaging and spectroscopy in collaboration with Drs. Paul A. Bottomley and Robert G. Weiss. State-of-the-art MR instruments available. To apply, send a résumé and three letters of recommendation to: **Dr. V.P.** Chacko, 203 Traylor Building, Division of MR Research, The Johns Hopkins University School of Medicine, 720 Rutland Avenue, Baltimore, MD 21205. E-mail: chacko@mri.jhu.edu. Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

BIOCHEMICAL GENETICIST/GENOMICIST

The Department of Human Biological Chemistry and Genetics (HBC&G), in association with the Program on Membrane Protein, invites applications for a **TENURE-TRACK POSITION** in HBC&G and an accompanying membership in the Membrane Protein Laboratory (MPL). Candidates should possess a doctoral-level degree, and their work should emphasize genetic/genomic approaches to major issues in membrane protein biology. Work on any relevant organism is acceptable.

The Department of HBC&G is a large, diverse Department with funded, strong research programs in protein folding, steroid hormone actions, biochemistry of aging, DNA replication and repair, cell cycle regulation, cancer, macromolecular interactions, and signal transduction mechanisms. It supports core laboratories in genomics, gene expression, proteomics, computational biology, synthetic chemistry, and various structural biological techniques.

The Program on Membrane Protein is a multide-

partmental program, funded in part by an award from the Howard Hughes Medical Institute. Members of the MPL and the Department of HBC&G are currently overexpressing, purifying, and crystallizing membrane proteins. They are applying genetic, biophysical, and X-ray crystallographic methods in a structure-based approach to elucidate the mechanisms of membrane protein function. State-of-the-art equipment and expertise in molecular biology, biochemistry, spectroscopy, X-ray diffraction, and computation are available in the MPL and the Department of HBC&G.

Please send current curriculum vitae and publication list, a concise statement of research interests, and the names and addresses of at least three references to: E. Brad Thompson, M.D., Chairman, Department of HBC&G, 301 University Boulevard, University of Texas Medical Branch, Galveston, TX 77555-0645. E-mail: bthompso@utmb.edu. University of Texas Medical Branch is an Affirmative Action/ Equal Opportunity Employer; Minority/Female/Disabled/

POSTDOCTORAL RESEARCH POSITION UNIVERSITY OF PENNSYLVANIA

A Postdoctoral position is available to conduct research on Kaposi's sarcoma-associated herpes virus (KSHV). Emphasis is on viral immediate-early genes and their roles in viral reactivation. A strong background in molecular virology or cell biology is preferred. Interested applicants should contact: Dr. Yan Yuan, Department of Microbiology, University of Pennsylvania School of Dental Medicine, 4010 Locust Street, Philadelphia, PA 19104. E-mail: yuan@pobox.upenn.edu. Include your curriculum vitae, a list of publications, and the names of three references. To learn more about research in our laboratory, please visit our website: http://www.med. upenn.edu/camb/fac/Yuan.html.

RESEARCH ASSOCIATE position available at the Molecular Cardiology Institute (small, independent, not-for-profit laboratory) to study molecular mechanism/gene expression of experimental heart failure. Energetic and scholarly productive Ph.D. with experience in differential display, cell culture, automatic sequence, and immunocytochemistry. Biochemistry experience desirable. Must be U.S. citizen or permanent resident. Write or e-mail to:

> Jose Marin, M.D., Director 75 Raritan Avenue Highland Park, NJ 08904 E-mail: tmci@worldnet.att.net

POSTDOCTORAL POSITION to study molecular mechanisms of steroid hormone action and aging. Send curriculum vitae and names of three references to: Arun K. Roy, Ph.D., Professor, Department of Cellular and Structural Biology, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78229-3900. FAX: 210-567-3846. The University of Texas Health Science Center at San Antonio is an Equal Employment Opportunity/Affirmative Action Employer.

Research Positions in Basic and Clinical Sciences

The Department of Surgery at Beth Israel Deaconess Medical Center invites applications for Research Fellow and Junior Faculty positions to participate in basic, translational, and clinical research in the following areas: Vascular and Cardiovascular Biology, Transplantation Biology and Immunology, Epithelial Biology, Neurosurgery and Neurooncology, Nutrition, and Urology. Applicants must have a Ph.D. and/or M.D. degree and significant research training and experience. Successful candidates for Junior Faculty positions will be appointed at the Instructor or Assistant Professor level, commensurate with experience, and will be eligible for promotion on an investigator track at Harvard Medical School. Instructors will develop independent research projects under the mentorship of established senior investigators in the Department. Assistant Professors will be provided with individual laboratory facilities and a generous startup package, and will be expected to establish independent, funded research programs.

Beth Israel Deaconess is a leading, internationally recognized academic medical center affiliated with Harvard Medical School, and ranks third in the United States among independent research hospitals in sponsored research funding.

Please send letters of application accompanied by curriculum vitae and names of three references to: Karl S. Matlin, Ph.D., Vice-Chairman for Research, Department of Surgery, Beth Israel Deaconess Medical Center, Research West 863, 330 Brookline Avenue, Boston, MA 02215

Beth Israel Deaconess Medical Center is an Equal Opportunity Employer that values the strength diversity brings to the workplace.

THREE FACULTY POSITIONS Functional Foods Research Division Pennington Biomedical Research Center

The Pennington Biomedical Research Center (PBRC) at Louisiana State University invites applications for **3 faculty positions** at the rank of **ASSISTANT/ASSOCIATE PROFES-SOR** in the **Functional Foods Research Division**. PBRC is one of the leading research institutes in the world focusing on nutrition and health, and is presently undertaking a major expansion in functional foods research. PBRC has extensive state-of-the-art facilities for both basic and clinical research and state-of-the-art core facilities to support the Functional Foods research area, which currently consists of 11 faculty.

Applicants must hold a Ph.D., M.D., or equivalent degree, have at least two years postdoctoral experience, and demonstrated potential to develop/maintain an independent peer-reviewed research program with extramural funding. Candidates should have a background in nutrition, genetics, molecular biology, cell biology, biochemistry, physiology or related field. Research interests may be in the areas of dietary fat and fatty acids, phytonutrients, antioxidants, or other food components related to health and disease. Preference will be given to those with research experience in the regulation of gene expression and cell signaling, proteomics, or analytical food chemistry. The successful candidate will be encouraged to develop interactions with established basic and clinical scientists to further enhance functional food research in the areas of cardiovascular disease, diabetes, cancer, obesity, and/or physical performance. Positions are either tenure or research track depending upon level of appointment and experience of the applicant.

Applications should include a curriculum vitae, a description of research plans, and the names of at least three referees. Applications will be accepted until suitable candidates are found. These should be sent to Mrs. Evelyn Bennett, Human Resource Management, Pennington Biomedical Research Center, 6400 Perkins Road, Baton Rouge, LA, 70808-4124. Electronic submission of applications from qualified candidates should be sent to Lefevrm@pbrc.edu. Please reference position as: REF: Lefevre-Faculty (Functional Foods)

The Pennington Biomedical Research Center/Louisiana State University is an Equal Opportunity/Affirmative Action employer.

EUROPEAN OPPORTUNITIES



THE UNIVERSITY OF SHEFFIELD

DEPARTMENT OF ANIMAL AND PLANT SCIENCES

CHAIR IN PLANT SCIENCES

Applications are invited for a Chair in Plant Sciences. The appointment offers an opportunity for an outstanding candidate to join a Department with an international reputation for its research in plant and fungal ecology and physiology which has recently been successful with a c£7M Joint Infrastructure Fund application on Plant Environment Interactions, Scaling between Genes and Ecosystems. The successful applicant will have a high research profile, which will complement or add to existing research strengths.

Informal enquiries may be made to the Chairman of the Department, Professor J A Lee, Tel: +44 (0)114 222 4371, E-mail: j.a.lee@sheffield.ac.uk

Closing date for applications: 1 September 2000. (Ref: R2090)

An Equal Opportunity Employer

For details of this post, E-mail: jobs@sheffield.ac.uk or Tel: 0114-222 1631 (24hr).

Please quote the post reference in all enquiries

Vacancy Web Site: http://www.shef.ac.uk/jobs/



Max Planck Institute

for Evolutionary Anthropology

The Max Planck Institute für Evolutionary Anthropology in Leipzig, Germany, offers the position of

Head of an Independent Junior Research Group

The position is a fulltime research position, and has associated with the funds for conducting research - including positions for a second Ph.D. scientist (BAT IIa) and two technical assistants. The appointment will be for a term of five years. The institute has four departments, including the Department of Primatology (Christophe Boesch, Director). More information may be obtained at http://www.eva.mpg.de/.

Research interests should focus on the evolution of culture and social learning in animals, except from great apes that are covered by the already existing departments of the institute. For example: Behavioural and cultural differences between populations and species, imitation and social learning mechanisms.

Applicants should not be older than 35 years, in accordance with the guidelines of the Max Planck Society. The salary will be at the C2/C3 level on the German university scale, equivalent to an assistant/associate professor.

Applications including a CV, a detailed research plan, and the names of three referees must be received at the address below by October 1, 2000.

Max-Planck-Institut für evolutionäre Anthropologie Personalabteilung Inselstraße 22 04103 Leipzig

Computational neuroscience: POSTDOC-TORAL FELLOW to investigate the dynamical properties of nonlinear systems with a particular emphasis on information processing and storage in gene networks and molecular pathways. Applicants should send a letter of application, curriculum vitae, and names of three references to: Dr. John H. Byrne, Department of Neurobiology and Anatomy, The University of Texas-Houston Medical School, Houston, TX 77030. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS ION CHANNELS: STRUCTURE, FUNCTION, AND MODULATION Thomas Jefferson University Philadelphia, Pennsylvania

Two Postdoctoral positions are available to study voltage-gated potassium channels. One project concerns the study of novel mechanisms of inactivation in cardiac and neuronal potassium channels (J. Gen. Physiol. 113:641–659, 1999). The position for this project is immediately available. Another project concerns the structural mapping of the binding site for general anesthetics and alcohols in a neuronal potassium channel (J. Biol. Chem. 275:4928-4936, 2000). The position for this project will be available in December 2000. Both projects apply site-directed mutagenesis, cysteine accessibility methods, and patch clamp recording. The laboratory is fully equipped with state-of-the-art instrumentation to conduct these projects. Interested individuals with knowledge of kinetic analysis of ion channels and previous patch clamping experience are particulary encouraged to apply. Applicants should send curriculum vitae, bibliography, and names (including e-mail addresses) of three references to: **Dr. Manual Covarrubias, De**partment of Pathology, Anatomy, and Cell Biology, Jefferson Medical College, 1020 Locust Street, Room 245, Philadelphia, PA 19107. Email: manuel.covarrubias@mail.tju.edu. Equal Opportunity Employer.

POSTDOCTORAL FELLOWS PATHOLOGY AND LABORATORY MEDICINE Emory University

Three Postdoctoral positions are available within the epithelial cell biology group at Emory University to study the molecular basis of epithelial intercellular junction structure-function, leukocyte-epithelial interactions, and cytoskeletal events involved in epithelial cell migration. A Doctoral degree, proficiency in English, and experience in molecular biology/biochemistry are required. The successful applicant will be a member of a large dynamic group with broad expertise in cell and molecular biology pertaining to mucosal immunology and epithelial cell biology. Interested individuals should send résumé to: Drs. J. Madara, A. Nusrat, and C. A. Parkos at the address below: Emory University, Department of Pathology, WMRB Room 2335, Atlanta, GA 30322. E-mail: anusrat@emory.edu; cparkos@emory.edu.

POSTDOCTORAL RESEARCH ASSOCIATE

Available October 1, 2000. Ecosystem modeling/ GIS analysis; working with interdisciplinary team analyzing implications of climate change and land use change for herbivores, people, and rangeland ecosystems. Includes application of SAVANNA ecosystem model in Africa, Asia, and North America. Requires Ph.D. in natural resource science, experience in ecosystem modeling, programming, and GIS. Send curriculum vitae, statement of research interests and experience, and contact information for three references to: Neil Shropshire, Natural Resource Ecology Laboratory, Colorado State University, Fort Collins, CO 80523-1499. Salary commensurate with experience. Closing date: September 6, 2000. CSU is an Equal Employment Opportunity/Affirmative Action Employer. Equal Opportunity Office: 101 Student Services.

POSITIONS OPEN

FACULTY POSITION IN BIOMATERIALS THE JOHNS HOPKINS UNIVERSITY

The Department of Materials Science and Engineering at the Johns Hopkins University invites applications for a faculty position in biomaterials. Specific areas of interest include materials for use in tissue engineering; biotechnology of materials; materials in therapies for human diseases; and materials processing, characterization, and engineering at the interface between devices and biological systems. The successful candidate will be expected to develop an innovative research program and teach at both the undergraduate and graduate levels. Applicants should have a Ph.D. in materials science and engineering or related field and must have demonstrated ability to undertake interdisciplinary research. Postdoctoral experience is highly desirable. It is anticipated that the appointment will be at the **ASSISTANT PROFESSOR** level, although an appointment at the ASSOCIATE or FULL PROFESSOR level will be considered. Applicants should submit a detailed résumé; a statement of research plans; teaching interests; and the names, addresses (including e-mail), and telephone numbers of three references to: Biomaterials Search Committee, Department of Materials Science and Engineering, 102 Maryland Hall, The Johns Hopkins University, Baltimore, MD 21218. To ensure full consideration, applications should be received by October 15, 2000. Johns Hopkins University is an Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

POSTDOCTORAL POSITION available for research training focusing on molecular genetics of Alzheimer's disease. Projects currently underway include candidate gene studies and linkage studies in Caribbean Hispanic families with late-onset Alzheimer's disease. Other studies, including fine mapping of regions of genetic interest, are planned. The molecular genetics project is part of the mission of the Taub Institute for Research on Alzheimer's Disease and the Aging Brain at Columbia University Health Sciences, a well-funded, active research department dedicated to the study of aging and degeneration of the nervous system. The laboratory for genetics is directed by Dr. James A. Knowles in the Columbia Genome Center, and the genetic epidemiology program is directed by Dr. Richard Mayeux, codirector of the Taub Institute. Prior training in an appropriate field (e.g., genetics or molecular biology) is desirable. Laboratory experience is required. Applicant must be a U.S. citizen or permanent resident. Send curriculum vitae and the names and telephone numbers of three references to: Taub Institute for Research on Alzheimer's Disease and the Aging Brain, Columbia University, 630 West 168th Street, P and S Box 16, New York, NY 10032. E-mail: ct404@columbia.edu. Columbia University is an Equal Opportunity/Affirmative Action Employer.

Research positions (POSTDOCTORAL, RESEARCH ASSOCIATE, or RESEARCH ASSISTANT) are available to study the normal and pathological functions of presenilin and apoE in Alzheimer's disease. Applicants must have a Ph.D. or Master's degree and experience in molecular and cellular biology. Experiences working with Alzheimer's disease and with viral or inducible expression systems are preferred. A background in protein-protein interaction and signal transduction is desirable. Send your curriculum vitae and names of references to: Xuemin Xu, Ph.D., Department of Pathology, The University of Tennessee, 2407 River Drive, Knoxville, TN 37996. Telephone: 865-974-8206; FAX: 865-974-5616; e-mail: xmx@utk.edu.

RESEARCH FELLOWS holding Ph.D. or M.S. are sought immediately to study ion channel and receptor physiology/pharmacology and visual development in the mammalian retina using patch clamp and Ca2+ imaging. Experience in electrophysiology or Ca2+ imaging required. Competitive salary. Contact: Dr. Jimmy Zhou, Department of Physiology, MS 505, University of Arkansas for Medical Sciences, Little Rock, AR 72205. E-mail: zhoujimmy@exchange.uams.edu.

POSITIONS OPEN

POSTDOCTORAL POSITION HARVARD MEDICAL SCHOOL

Strong molecular skills, especially microsample PCR At. To clone antibody genes of single autologous tumor-reactive B cells and plasma cells; to isolate and study tumor antigens. Send résumé, summary of prior research, and three reference names by FAX to: Dr. R. Junghans; FAX: 617-432-7007.

POSTDOCTORAL POSITION in ecological/ evolutionary physiology. A three-year position is available immediately to investigate the evolution of locomotion in lizards. In collaboration with Dr. Bruce C. Jayne and Dr. Duncan J. Irschick, the laboratory portion of the project will investigate the neuromuscular basis of locomotion in arboreal lizards and the functional basis of habitat use; some fieldwork on habitat use will be performed in Puerto Rico and the Bahamas. Applicants should have a Ph.D. in any of the areas of functional morphology, behavior, or ecology. Strong quantitative skills are essential, and experience with techniques in functional morphology is desirable. Consideration of applications will begin immediately and continue until the position is filled. Applicants should send curriculum vitae and a list of three references (with e-mail addresses) to: Dr. Bruce C. Jayne, Department of Biological Sciences, P.O. Box 210006, University of Cincinnati, Cincinnati, OH 45221-0006. Website: http://www. biology.uc.edu/faculty/jayne/bruce.htm; e-mail: jaynebc@email.uc.edu; FAX: 513-556-5302.

POSTDOCTORAL POSITIONS available immediately. (1) Investigation of activation and permeation mechanisms of recombinant HCN pacemaker channels upon heterologous expression. (2) Contribution of HCN channels to thalamic physiology utilizing in vitro slice recording from HCN knockout mice. Experience in molecular biology and electrophysiology is desirable. Send curriculum vitae and names of references to: G. R. Tibbs, Department of Anesthesiology, P&S Box 46, 630 West 168th Street, New York, NY 10032. E-mail: GRT1@ columbia.edu. Columbia University is an Equal Opportunity/Affirmative Action Employer.

LABORATORY ASSOCIATE for medical diagnostics company located south of Houston, Texas. B.S. or M.S. in biological sciences or chemistry with two to five years of experience preferred. Organizational, computer, and communciation skills and analytical aptitude essential. Duties include running manual and automated immunoassays, converting manual assays into automated assays using robotic immunoassay operators, validating assay performance, and preparing reports. FAX résumé to: Carol; FAX: 281-554-4220; e-mail: cpatton@dslabs.com. Equal Opportunity Employer.

POSTDOCTORAL FELLOW to work on stroke models using different types of genetically altered mice to evaluate protective versus deleterious effects of new anticoagulant and fibrinolytic therapy for stroke. Candidates with demonstrated experimental surgical skills including middle cortex artery occlusion technique in rodents are encouraged to apply. Salary commensurate with experience. Résumés to: Dr. Berislav Zlokovic; e-mail: Berislav_Zlokovic@ urmc.rochester.edu. The University of Rochester is an Equal Opportunity Employer.

HYBRIDOMA LABORATORY MANAGER for medical diagnostics company located south of Houston, Texas. M.S. or Ph.D. in microbiology/biological sciences with two to five years of experience in all aspects of monoclonal antibody production. Responsible for overall operations of hybridoma laboratory and supervision of laboratory staff. Function as an integral part of multidisciplinary team involved in development and manufacturing of immunodiagnostic reagents. FAX résumé to: Carol; FAX: 281-554-4220; e-mail: cpatton@dslabs.com. Equal Opportunity Employer.



Monterotondo Research Programme

The European Molecular Biology Laboratory (EMBL) invites applications for a position as:

GROUP LEADER IN MOUSE BIOLOGY (ref. no.: 00/59)

We are interested in excellent candidates who work in the broad field of mouse biology (cell and developmental biology, neurosciences), using modern tools of genetic analysis and phenotypic analysis of mutant mice. The selected candidate will be given a standard EMBL Group Leader appointment initially for 5 years with the possibility of an extension for another 4 years. He/she will also hold an associate appointment in the EMBL Headquarters Laboratory in Heidelberg, which includes groups working on vertebrate gene expression, cell biology and development.

The European Molecular Biology Laboratory is an international research organisation consisting of three Outstations in Hamburg, Grenoble and Hinxton and a Headquarters Laboratory situated in Heidelberg, Germany. An EMBL Research Programme in Mouse Genetics was established beginning of 1998 at the 'Campus Adriano Buzzati-Traverso' at Monterotondo, near Rome, at a site where the 'European Mouse Mutant Archive' (EMMA), and the 'Istituto di Biologia Cellulare' (IBC) of the "Consiglio Nationale delle Ricerche' (CNR) are also established independently. Additional research groups of IBC-CNR and the 'International Centre for Genetic Engineering and Biotechnology' (ICGEB) are expected to move to the Monterotondo campus within the next year.

The research interests of the current EMBL Mouse Biology Programme include anti-viral defense mechanisms (Ulrich Kalinke), receptor tyrosine kinases in brain (Liliana Minichiello), B-cell development (Klaus Rajewsky) and the actin cytoskeleton (Walter Witke, Acting Coordinator). K. Rajewsky and U. Kalinke will be departing in 2001-2002.

Informal enquiries can be made directly to:

Dr Walter Witke, tel.: +39 06 90091 268, fax: +39 06 90091 272, witke@embl-monterotondo.it

Closing date for applications: 31 October 2000. The appointment will be available from March 2001.

EMBL is an inclusive, equal opportunity organisation. By providing an exciting and stimulating research environment consisting of young, independent research groups it also provides access to outstanding graduate students and postdocs. The Laboratory provides financial help in relocating families and additional benefits.

Applications, comprising a curriculum vitae, a short description of research accomplishments and future plans, and three letters of reference should be sent, quoting ref. no. 00/59, to:

The Personnel Section, EMBL, Postfach 10.2209, D-69012 Heidelberg, Germany. Fax: +49 6221 387555; Tel.: +49 6221 387 208; email: jobs@embl-heidelberg.de

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Profile

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Are you interested in this challenging position? Send your resume and a cover letter describing your career objectives to: BAXTER AG, 1220Vienna, Industriestraße 67, Phone 43-1/20100 DW 2008, Dr. Elisabeth Pullez, e-mail: <u>pulleze@baxter.com;</u> Homepage: www.baxter.com

LABORATORY OF MOLECULAR BIOLOGY

POSTDOCTORAL RESEARCH POSITION

Applications are invited for a postdoctoral research position for structural studies on ribosomes using x-ray crystallography. The candidate must be a recent Ph.D. with prior experience in both biochemistry and crystallography of protein-nucleic acid complexes, and experience with synchrotron data collection.

This appointment will be for one year in the first instance with every likelihood that this will be extended for a further year and will be to MRC Salary Band 4 (£16,280 -£29,362 per annum). The starting salary is likely to be in the range of £19,500 - £22,000 per annum, but will depend on experience.

For further details on the above position, please contact Dr Venki Ramakrishnan (email ramak@mrc-lmb.cam.ac.uk).

To apply, please send two copies of your CV together with the names and addresses of two professional referees who can be contacted prior to interview. Please quote reference SS/700/3 and send by 26 August 2000 to:

Johanna Webb, Personnel Officer, MRC Centre, Hills Road, Cambridge, CB2 2QH



The Medical Research Council is an Equal Opportunity Employer and operates a strict no smoking policy.

NASA-Ames Research Center is seeking to expand its nanotechnology program and is inviting letters of interest for two future positions: (1) MOLECULAR **BIOLOGIST** (\$54,000 to \$83,000 per year) with a working knowledge of site-directed mutagenesis and bacterial expression systems. The successful candidate will work at the interface between a group of microbiologists studying extremophiles and a team of engi neers working in nanotechnology. (2) MICROBI-OLOGIST (\$45,000 to \$70,000 per year) with experience in microbiology and an interest in organisms from extreme environments. Laboratory work will be centered on the cultivation of microbes in batch culture fermenters, biochemical procedures, and protein purifications. Fieldwork will involve sampling expeditions to extreme Earth environments and probe deployments. The successful candidate should have strong background in microbiology. The goal is to explore the uses of extremophile biomolecules in the emerging field of nanotechnology. Both positions will be located in the Astrobiology Technology Branch, Space Science Division, of the Astrobiology and Space Research Directorate. Interested candidates should send curriculum vitae, a one- to two-page description of research qualifications and aspirations, and names of three references to: Camilla Perez, Mail Stop 241-9, NASA-Ames Research Center, Moffett Field, CA 94035. E-mail: cperez@mail.arc.nasa. gov. Letters of interest must be received by August 28, 2000. All respondents will be notified of the upcoming formal vacancy announcement. NASA-Ames is an Equal Opportunity Employer. Candidates must be U.S.

Physician Scientist as ASSISTANT/ASSOCIATE PROFESSOR OF MEDICINE in the Division of Immunology and Rheumatology, Department of Internal Medicine, University of Missouri-Columbia. Primary responsibility will be development of an independent research program. Collaborative opportunities exist for research in a variety of areas, including autoimmunity, T cell receptor biology, autoantibodies, and animal models of autoimmunity. Secondary responsibility will include instruction of clinical trainees regarding the care of rheumatic disease patients. Position is fully funded and will provide 75% protected research time with highly competitive compensation package. Address inquiries to: Dr. Robert W. Hoffman, Director, Division of Immunology and Rheumatology, MA427 Medical Sciences Building, Columbia, MO 65212. Telephone: 573-884-0228; e-mail: hoffmanr@health.missouri.edu. The University of Missouri is an Equal Opportunity/Affirmative Action Employer and complies with the Americans with Disabilities Act of 1990. Women and minorities are encouraged to

ASSISTANT/ASSOCIATE PROFESSOR CENTER FOR PHARMACOGENETICS The University of Pittsburgh

The newly established Center for Pharmacogenetics in the School of Pharmacy seeks outstanding Investigators to fill a tenure-track eligible position. It a full-time, 12-month appointment. Successful candidates must have a Ph.D. and/or M.D. as well as an excellent research record in pharmacogenetics and/or functional genomics. Rank and salary will be commensurate with qualifications and experience. Send curriculum vitae, three letters of recommendation, and a statement of research interest by November 15, 2000, to: Dr. Leaf Huang, University of Pittsburgh, 3501 Terrace Street, 633 Salk Hall, Pittsburgh, PA 15213.

POSTDOCTORAL FELLOW to work on molecular and cellular mechanisms involved in the regulation of brain thrombosis in relation to cellular injury in experimental stroke models and Alzheimer's disease. Candidates with previous experience in molecular and cellular analysis of the central nervous system are encouraged to apply. Salary commensurate with experience. Résumés to: Dr. Berislav Zlokovic, Berislav Zlokovic, Unrecrochester.edu. The University of Rochester is an Equal Opportunity Employer.

POSITIONS OPEN

INTERESTED IN CLINICAL OR POSTDOCTORAL RESEARCH TRAINING?

The National Institutes of Health has both! For more information, visit our website which lists an array of clinical and postdoctoral opportunities, including tenure-track positions.

http://www.training.nih.gov

NIH is dedicated to building a diverse community in its training and employment programs.

NORTHWESTERN UNIVERSITY

POSTDOCTORAL POSITION available to examine the molecular basis for cytokine gene regulation (MCB 18:2815, 1998; JI 164:4277, 2000) and apoptosis (JEM 190:1679, 1999) in macrophages and fibroblasts (JI 164:5227, 2000) and developing genetic therapy for patients and animal models with inflammatory arthritis. Expertise in molecular and cellular biology and experimental animals required. Send résumé and names of three references to: Richard M. Pope, M.D., Chief, Division of Rheumatology, Northwestern University Medical School, 303 East Chicago Avenue, Ward 3-315, Chicago, IL 60611. E-mail: rmp158@nwu.edu. Northwestern University Medical School is an Affirmative Action/Equal Opportunity Employer. Hiring contingent upon eligibility to work in the United States. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITIONS available to study the regulation of apoB gene expression. Yeast 1 and 2 hybrid systems, screening of expression library, foot printing, gel mobility shift assays, and gene transfection in cell line will be used. Candidates should have a Ph.D. and background in molecular biology and tissue culture. Experience in protein purification, gene transcription, and apolipoproteins a plus. Submit curriculum vitae, research experience, and three references to: Dr. Hriday K. Das, Department of Pharmacology, University of North Texas Health Science Center at Fort Worth, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107-2699. E-mail: hdas@hsc.unt.edu. University of North Texas Health Science Center is an Equal Employment Opportunity/Affirmative Action Institution.

POSTDOCTORAL POSITION AVAILABLE

RESEARCH ASSOCIATE position available to join a highly interactive NIH-funded program focused on molecular pharmacology and cancer. Current projects include studying signal transduction events associated with tumor cell adhesion and prevention of apoptosis. Applicants for this position should hold a Ph.D., M.D., or M.D./Ph.D. with a background in molecular biology and/or signal transduction. Send curriculum vitae, brief description of research experience, and names of three references to: W. S. Dalton, Ph.D., M.D., Moffitt Cancer Center, 12902 Magnolia Drive, Tampa, FL 33612-9497. Equal Opportunity Employer.

POSTDOCTORAL POSITION available in molecular neurobiology of neurodegenerative diseases, including Alzheimer's disease. A strong background is desired in biochemistry and molecular biology to explore the molecular basis of these diseases. Submit curriculum vitae and three references to: Carol A. Miller, M.D., University of Southern California School of Medicine, Department of Pathology, 2011 Zonal Avenue, Los Angeles, CA 90033. FAX: 323-442-1808; e-mail: carolmil@hsc.usc.edu.

Two POSTDOCTORAL POSITIONS in diabetes research available. One is for the study of the genetics of Type 1 diabetes; the other is for the study of metabolic signaling in the pancreatic beta cell. Send curriculum vitae and three references to: M. J. MacDonald, University of Wisconsin Medical School, 1300 University Avenue, Madison, WI 53706. FAX: 608-262-9300; e-mail: mjmacdon@facstaff.wisc.edu. The University of Wisconsin is an Equal Opportunity Employer.

POSITIONS OPEN

HANNAH CHAIR IN POPULATION DYNAMICS AT MICHIGAN STATE UNIVERSITY

Michigan State University seeks a leading ECOL-OGIST to fill a Hannah Chair in Population Dynamics. The ideal candidate brings an integrative perspective to research in population and community ecology and is interested in addressing ecological and evolutionary questions incorporating multiple spatial and temporal scales across complex landscapes. We seek an interactive individual with an international reputation and a commitment to understanding the consequences of environmental change on natural or introduced populations in managed and unmanaged systems; Ph.D. is required. The successful candidate will have a 12-month, tenured appointment at the FULL PRO-FESSOR rank in a main campus department and a strong research presence at the W. K. Kellogg Biological Station (KBS) of Michigan State University. KBS is located in southwest Michigan in a diverse landscape of terrestrial and aquatic habitats. The Hannah Chair will join a strong group in ecology, evolutionary biology, and behavior on campus and at KBS. This position comes with a research endowment; more information regarding this position is available at website: http://www.hannahchair.msu.edu.

Applicants should submit the following materials: a letter of application, a statement of professional goals, curriculum vitae, and names and addresses of three references to: Dr. Katherine L. Gross, W. K. Kellogg Biological Station, Michigan State University, 3700 East Gull Lake Drive, Hickory Corners, MI 49060. Telephone: 616-671-2235; FAX: 616-671-2351; e-mail: kgross@kbs.msu.edu. Review of applications will begin 30 September 2000. Michigan State University is an Affirmative Action/ Equal Opportunity Institution.

POSTDOCTORAL RESEARCH ASSOCIATE

Positions are available on an ongoing basis to conduct research within different research groups in the Institute of Molecular Biology and the Institute of Neuroscience at the University of Oregon. The purpose of this notice is to establish and maintain a pool of qualified applicants. Ph.D. in molecular biology, neuroscience, or related field is required. Please see our websites: www.molbio.uoregon.edu and www. neuro.uoregon.edu for information about the type of research being done. Salary dependent upon experience. For application materials, please Telephone: 541-346-5151; e-mail: rita@prospero.uoregon.edu. The University of Oregon is an Equal Opportunity/Affirmative Action Institution committed to cultural diversity and compliance with the Americans with Disabilities Act. Women and minorities are urged to apply.

POSTDOCTORAL POSITION to study the molecular biology of human caliciviruses, specifically the Norwalk-like viruses. Present studies focus on RNA-protein interactions important in expression of the viral genome. Ph.D. in a biomolecular discipline and experience in molecular biology required. Send curriculum vitae and have three letters of reference sent to: Dr. Michele E. Hardy, Veterinary Molecular Biology, P.O. Box 173610, Montana State University, Bozeman, MT 59717. E-mail: mhardy@montana.edu. Departmental information available at website: http://www.montana.edu. Screening begins immediately. Americans with Disabilities Act/Affirmative Action/Equal Opportunity/Veteran's preference.

POSTDOCTORAL POSITION Washington University School of Medicine

Available immediately to study the molecular genetics and cell biology of the human diseases of copper and iron metabolism (see *Proc. Natl. Acad. Sci.* 96:13363; 97:2886). Ph.D. with experience in cell and molecular biology required. Send curriculum vitae and references to: Jonathan D. Gitlin; e-mail: gitlin@kids.wustl.edu. Washington University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION CHLAMYDIAL PATHOGENESIS AND **IMMUNOLOGY**

Two positions are available to study chlamydial pathogenesis and immunulogy (see J. Exp. Med. 191: 1525-1534, 189:1931-1937, 187:487-496; J. Clin. Invest. 103:747-753; Proc. Natl. Acad. Sci. USA 94: 13856-13861). Candidates should have a Ph.D. or equivalent training in microbiology, immunology, cell biology, or molecular biology. Send curriculum vitae, a brief description of research interests, and names and addresses of three references to: Dr. Guangming Zhong, Department of Microbiology, University of Texas Health Science Center, San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78229-3900. E-mail: zhongg@uthscsa. edu. The UTHSCSA is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE/ ASSISTANT PROFESSOR positions available in autoimmune arthritis research in the Section of Biochemistry and Molecular Biology at Rush University, Chicago. Position(s) requires documented experience and understanding in genetics and molecular/cell biology as well as bioinformatics. Applicants should send curriculum vitae, brief summary of research experience, name and address of current preceptor, and at least two additional references to: Tibor T. Glant, M.D., Ph.D., Professor, Search Committee, Section of Biochemistry and Molecular Biology, Department of Orthopedic Surgery, Rush University, 1653 West Congress Parkway, Chicago, IL

McGowan Center for Artificial Organ Development, University of Pittsburgh: Applications are invited for several POSTDOCTORAL FELLOW positions in artificial lung and blood research, including tissue-engineered and biohybrid constructs. Applicants should hold a Ph.D. in biological/chemical sciences, bioengineering, or closely related disciplines. Send cover letter, curriculum vitae, and the names of three references to: Carole Brown, Room 407 Biotechology Center, 300 Technology Drive, Pittsburgh, PA 15219. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCI-ATE. The University of Virginia's Blandy Experimental Farm seeks applications for Postdoctoral Researcher interested in plant mating systems and insect herbivory. Funded by the National Science Foundation. For details, contact: David E. Carr; e-mail: dec5z@virginia.edu. To apply, send statement of research interest, curriculum vitae, and two letters of recommendation to: D. E. Carr, Blandy Experimental Farm, 400 Blandy Farm Lane, Boyce, VA 22630 by 30 September 2000. The University of Virginia is an Equal Employment Opportunity Employer.

POSTDOCTORAL POSITION. The research focuses on mechanisms of selective neuronal death following chronic interruption of oxidative metabolism. The model mimics important aspects of several neurodegenerative diseases including Alzheimer's disease. In vivo and cell culture models utilize a variety of molecular and cell biological approaches to probe this question. Experience in immunocytochemistry is preferred. Contact: Gary E. Gibson, Cornell University Medical College, Burke Medical Research Institute, Ithaca, NY 14853-2801. E-mail: ggibson@ med.cornell.edu.

NIH-funded POSTDOCTORAL POSITION available to examine the immunopathogenesis of lung transplant rejection. Experience in animal surgery in rodents, immunology, and molecular biology is desirable. Please send curriculum vitae and names of three references to: David S. Wilkes, M.D., Division of Pulmonary and Critical Care Medicine, Indiana University School of Medicine, 1001 West 10th Street, OPW 425, Indianapolis, IN 46202. E-mail: dwilkes@iupui.edu. Indiana University School of Medicine is an Equal Opportunity/Affirmative Action Employer. Underrepresented minorities are encouraged to apply

POSITIONS OPEN

POSTDOCTORAL FELLOW

Environmental Defense, a national not-for-profit research and advocacy organizaton (formerly known as the Environmental Defense Fund), seeks an Environmental Scientist to work on nutrient pollution and eutrophication in coastal marine ecosystems. Applicants should have interest and research experience in evaluating controls on nitrogren fluxes in the landscape, the effects of eutrophication, the sensitivity of coastal systems to eutrophication, or similar topics. In addition, applicants should have an interest in the policy implications of research. Interest in and experience with cross-ecosystem comparisons is desirable. Since 1967, Environmental Defense has linked science, economics, and law to create innovative, equitable, and cost-effective solutions to the most urgent environmental problems. Salary is competitive and commensurate with experience. Starting date is January 1, 2001, or later. We will begin to review applications after October 15, 2000. The successful candidate will work from the newly expanded Environmental Defense office in Boston. Send curriculum vitae, cover letter, and names (with telephone numbers and e-mail addresses) of three potential references to:

Bob Howarth, Program Manager Oceans Program Environmental Defense 6 North Market Building Faneuil Hall Boston, MA 02109 FAX: 617-723-2999

For detailed information on this position and other job openings at Environmental Defense, please visit our website: www.environmentaldefense.org. Equal Opportunity Employer.

ANNOUNCEMENTS



The Naomi Berrie Diabetes Center at Columbia University announces the first annual NAOMI BERRIE AWARD

FOR **OUTSTANDING ACHIEVEMENT IN** DIABETES RESEARCH

The Naomi Berrie Award will recognize a Senior Research Scientist who has made major contributions to diabetes research, preferably at the basic science level. The recipient will receive \$100,000 to support a two-year Research Fellowship for a DOCTORAL STUDENT or POSTDOCTORAL FELLOW in his or her laboratory.

Applications for nominations can be accessed through our website: www.nbdiabetes.org.

Please send inquiries to: e-mail: diabetes@ columbia.edu.

Closing for nominations is September 1, 2000. The Naomi Berrie Award recipient for 2000 will be announced in October.

EUROPEAN OPPORTUNITIES

Two POSTDOCTORAL POSITIONS are available at the University of Geneva (Science III) Department of Cell Biology to join a group with longstanding research interests in the role of mitochondria in apoptosis. The first focuses on the mechanism of action of Bcl-2 family members and their role in mitochondrial membrane permeabilization. The second position focuses on the identification of novel mitochondrial ion channels and their role in the control of mitochondrial function. Candidates must have a Ph.D. and/or M.D. degree with less than five years of postdoctoral experience. Send your curriculum vitae and three reference letters to: Dr. Jean-Claude Martinou, Department of Cell Biology, Sciences III, 30, quai Ânsermet, 1211 Geneva 4, Switzerland. E-mail: yvette.develey@cellbio.unige.ch.

POSITIONS OPEN

RESEARCH ASSISTANT PROFESSOR, nontenure track, to work on cell biology of the vascular system in the aging brain and in brain tumors. Candidates with previous experience in vascular cell biology are encouraged to apply. Salary commensurate with experience. Résumés to: Dr. Berislav Zlokovic; Berislav_Zlokovic@urmc.rochester.edu. The University of Rochester is an Equal Opportunity Employer.

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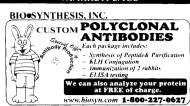


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