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probes. We offer four versions of this system: Eclipser Gene Expression Systems, Eclipser Viral Quantification Systems and Eclipser Viral Quantification Systems.



#### Lasergene 5.0 DNASTAR

Madison, WI Please consult company for pricing 608-258-7420 www.DNASTAR.com

#### **SEQUENCE POWERTOOLS**

DNASTAR's Lasergene 5.0 is a suite of sequence analysis programs from DNASTAR for computers running on Windows 95, 98, or NT (Pentium 100 or greater) or Macintosh PowerPC. Improvements in the current edition include expanded export and import ca-

pabilities, improved Internet access, and two newly written user manuals. The package consists of seven modules, sold individually or as a set, with functions ranging from sequence analysis to protein structure prediction.

The central module, EditSeq, accepts DNA or protein sequences entered as text or imported in numerous standard formats. It prepares sequences for use by the other modules.

GeneQuest compares predicted open reading frames with codon usage plots to help identify genes. The module can also predict DNA bending, add annotations, simulate agarose gel electrophoresis of restriction fragments, and predict secondary structure of RNA molecules.

SeqMan II downloads and evaluates chromatograms from automated sequencing systems (ABI and SCF formats). It can assemble multiple sequences into contiguous segments in an alignment window. If overlapping sequences conflict, SeqMan II provides easy access to the relevant chromatographic sequence data for interpretation.

PrimerSelect designs polymerase chain reaction (PCR) primers or hybridization probes. The module performs basic functions, such as secondary structure and annealing temperature prediction, and offers advanced features, including primer 3' end specificity evaluation and multiplex PCR primer design.

MapDraw is an easy-to-use illustration program that can produce linear or circular restriction maps (even of entire bacterial genomes) for publication.

Protean has excellent protein structure prediction and analysis features, including antigenicity, hydrophobicity, charge density, and flexibility plots. It will predict the products of proteolysis and simulate fragment separation on gels. A titration curve of a protein or individual amino acid can be plotted on a graph of pH versus charge. This module will illustrate protein structures by several methods, including helical wheel, beta net, helical net, chemical formula, and linear space filling models.

MegAlign generates multiple or pairwise alignments using several algorithms, including Jotun Hein, Clustal V, and Clustal W. The program can save alignments as text, and aligned sequences can be visualized with a limited phylogeny inference program or exported in PAUP or Phylip formats.

All Lasergene 5.0 applications perform BLAST and Entrez searches, and each can download results for further analysis. The manuals contain installation instructions, a helpful tutorial, detailed descriptions of all available features, and several appendices. Overall, the Lasergene package is impressive and offers a variety of publication-quality tools in an easy-to-use, well-organized program suite.

#### -Laurie Bissonette, Orin C. Shanks, Walt Ream

Department of Microbiology and Genetics Program, Oregon State University, Corvallis, OR 97331, USA. E-mail: bissonel@ucs.orst.edu, shankso@bcc.orst.edu, and reamw@orst.edu

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The LS 45 luminescence spectrometer is a versatile, fixed-slit instrument that provides high-quality results for routine analyses. The LS 45 is an affordable solution for laboratories using fluorescence, phosphorescence, chemilumines-CONTINUED ON PAGE 130 cence, or bioluminescence techniques for clinical, environmental, pharmaceutical, and industrial applications. The monochromator-based LS 45 makes use of a high-energy pulsed Xenon source for excitation, minimizing photo bleaching of samples. A variety of accessories provides flexibility, including the Remote Fiber Optic accessory for remote nondestructive testing of fluorescent papers and fabrics and hazardous materials

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For more information call 800-645-9846 or **circle 144** on the Reader Service Card www.misonix.com The Sonicator 3000 ultrasonic liquid processor, designed for high throughput, can reduce procedure times for researchers who lyse cells, mix compounds, or degas solutions. The device does not need to be retuned between

uses or after changing probes. It is programmable with up to 10 programs. It monitors temperature and provides the opportunity for control of an external cooling device.

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The new ZipTip<sub>HPL</sub> pipette tips containing hydrophilic interaction chromatography resin offer an efficient method to remove detergents and Coomassie blue stain from peptide mixtures. When

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The DIT-5200 is a true differential measuring system that makes use of highprecision inductive technology. Making precise angular measurements is critical in applications such as pointing and tracking, forward-looking infrared, fast steering mirrors, laser beam communi-

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For more information call 800-621-8820 or **circle 147** on the Reader Service Card www.napco2.com ULTRA-LOW-TEMPERATURE FREEZER

The NapCoil "cooling-coils-in-the-shelf" design is a new concept in the ultralow-temperature freezer market. The design puts the cooling coils in direct contact with the sample, so freezing is very rapid and sample temperature uni-

formity is improved. Oversize compressors and an oversize firststage condenser eliminate the need for auxiliary cooling fans.



The Mammalian Genotyping Service is funded by the National Heart, Lung, and Blood Institute to assist in linkage mapping of genes which cause or influence disease and other research purposes. Genotyping is carried out using whole genome polymorphism scans at Marshfield, Wisconsin under the direction of Dr. James Weber. Capacity of the Service is currently about 7,000,000 genotypes (DNA samples times polymorphic markers) per year and growing. Although the Service was initially established for genetic projects dealing with heart, lung, and blood diseases, the Mammalian Genotyping Service will now consider all meritorious applications. Genome scans for humans, mice, rats, dogs and zebrafish are available.

To ensure the most promising projects are undertaken, investigators must submit a brief application which will be evaluated by a scientific advisory panel. At this time, only projects with at least 10,000 genotypes will be considered. DNA samples must be in hand at the time of application. Most genotyping within the Service is currently done with multiallelic STRPs (microsatellites). However, genotyping with human diallelic polymorphisms has been initiated and will likely expand. **There are no genotyping fees for approved projects.** The Service is funded through September, 2006. Application deadlines are every six months.

> Upcoming Deadlines: March 31 September 30 Visit our website for application information: http://research.marshfieldclinic.org/genetics

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#### **END LABELING SYSTEM**

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Vector Laboratories

The 5' EndTag system is a new method that can label the 5' end of unmodified or 5'-OH modified DNA or RNA. The system enables a variety of labels, including biotin, fluorescein, Texas Red, DNP, fucose, or coumarin 151, to be at-

tached only at the 5' end of the nucleic acid. This system is suitable for labeling polymerase chain reaction and sequencing primers because a label is attached only at the 5' end, leaving the 3' end available for polymerization. The position of the label does not interfere with hybridization or nucleic acid binding. The kit components allow any thio-reactive label to be coupled to the nucleic acid. Labeling is achieved in about 1 hour.

LITERATURE

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Products for Scientific Exploration 2001 is a catalog that features monoclonal and polyclonal antibodies, proteins, biochemicals, custom polyclonal antibody production, and contract conjugation and other services.

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#### POSITIONS OPEN

#### FACULTY POSITION University of Wisconsin–Madison

The Department of Animal Health and Biomedical Sciences seeks applicants for a tenure-track faculty position at the ASSISTANT or ASSOCIATE PRO-FESSOR level. Applicants must hold a Ph.D., Ph.D./D.V.M., or Ph.D./M.D. degree and have research interests in functional genomics as applied to eukarvotic or prokaryotic infectious diseases or disease resistance. Teaching will involve development of a basic undergraduate/graduate course in some aspect of functional genomics, and the option of offering an advanced course in specific areas of expertise. The Department is committed to building its strengths in the functional genomics area and encourages applications from individuals with interests in gene regulation, immunology, infectious diseases, or microbial pathogenesis. This is the first of three faculty positions anticipated to be filled in this research area. Candidates should submit curriculum vitae, statement of professional goals, research and teaching interests, and the names and addresses for three to five reference es to: Dr. Bruce M. Christensen, Chair, Search Committee, Animal Health and Biomedical Sciences, School of Veterinary Medicine, 1656 Lin-den Drive, University of Wisconsin, Madison, WI 53706. E-mail: bmc@ahabs.wisc.edu; Telephone: 608-262-3850. Review of applications will begin August 15, 2001, and continue until the position is filled. UW-Madison is an Equal Opportunity/Affirmative Action Employer. Unless confidentiality is requested in writing, information regarding applicants and nominees must be released upon request. Finalists cannot be guaranteed confidentiality.

#### ASSOCIATE DEAN FORESTRY AND WILDLIFE SCIENCES

Auburn University invites nominations and applications for the position of Associate Dean of the School of Forestry and Wildlife Sciences. The successful applicant will provide leadership and program direction in the areas of research and education. Application procedures and full listing of vacancy details are available at website: http://www.forestry.auburn.edu.

A Ph.D. in forestry, wildlife, or related field with at least one degree in wildlife science is required. Applicants should be effective communicators and have a distinguished record of scholarly achievement commensurate with rank of FULL PROFESSOR and tenure in forestry or wildlife ecology and management. Contact: Dr. Gary R. Hepp, Chair, Search Committee, School of Forestry and Wildlife Sciences, 108 M. White Smith Hall, Auburn University, Auburn, AL 36849-5418. Telephone: 334-844-9254; FAX: 334-844-1084; e-mail: heppgar @auburn.edu. Auburn University is an Equal Opportunity/Affimative Action Employer. Applications from minorities and women are encouraged.

University of California Irvine: FACULTY POSI-TIONS in bioorganic chemistry. The Department of Chemistry at UC Irvine is expanding its commitment to research in chemical biology and bioorganic chemistry with new faculty positions in conjunction with substantial additional campus resources that include a new interdisciplinary Chemistry/Biology building. Applications are invited at the ASSISTANT PRO-FESSOR level for a tenure-track faculty position in bioorganic chemistry or chemical biology, but applications at all levels will be considered. Candidates must have a Ph.D. and a strong record of research accomplishments and a commitment to teaching at both the graduate and undergraduate levels.

Applicants should provide curriculum vitae, a brief statement of research plans, and three letters of recommendation to: Professor David L. Van Vranken, Bioorganic Search Committee, Department of Chemistry, The University of California, Irvine, CA 92697-2025. Applications must be received by September 30, 2001. The University of California is an Equal Opportunity Employer committed to excellence through diversity.

#### POSITIONS OPEN

FACULTY POSITIONS: virology/bacterial pathogenesis. The Department of Microbiology at the University of Texas Southwestern Medical Center is seeking new faculty (tenure track) at the ASSIST-ANT PROFESSOR level. Faculty will be expected to develop front-rank, competitive, independent research programs in their chosen fields and contribute to the teaching of medical and graduate students. For exceptional candidates, an Endowed Scholars Program offers a competitive salary, new laboratory space in an attractive and dynamic research environment, and start-up funds of \$600,000 over a four-year period; candidates should have a Ph.D. and/or M.D. degree with at least two years of postdoctoral experience and an outstanding publication record. Some preference may be given to virology candidates with interests in STDs (e.g., HSV, HPV), but all outstanding candidates are encouraged to apply. For bacterial pathogenesis, areas of particular interest include STDs, emerging/reemerging pathogens, cellular microbiology, and opportunistic infections. Candidates should forward curriculum vitae, three letters of recommendation, two or three representative publications, and a brief summary of future research to: Dr. Michael V. Norgard, Chairman, Department of Microbiology, UT Southwestern Medical Center, 6000 Harry Hines Boulevard, Dallas, TX 75235-9048. FAX: 214-648-5905. UT Southwestern is an Equal Opportunity University.

#### RESEARCH ASSOCIATE Alcorn State University

Applications are invited for the position of Research Associate in the Department of Biological Sciences at Alcorn State University (located near historic Natchez and Vicksburg, Mississippi). The research project will center on interactions between the immune system and the neuroendocrine system, specifically the effect of various peptides derived from enkephalin on delayed-type hypersensitivity responses in the hairless guinea pig model developed in this laboratory and on various murine *in vitro* responses (cytokine production via ELISA and cytokine mRNA via PCR).

The successful candidate will have a Ph.D. in immunology or a related area and demonstrated expertise in tissue culture and cytokine research. PCR experience is a definite plus. The position, which is immediately available, will carry a yearly salary of \$30,000.

Interested applicants should send curriculum vitae and the names and addresses of three references to: Robert C. Sizemore, Ph.D., Department of Biological Sciences, Alcorn State University, 1000 ASU Drive, Number 870, Alcorn State, MS 39096. E-mail: sizemore@lorman.alcorn.edu; FAX: 601-877-3989. Alcorn State University is an Equal Opportunity Employer committed to the development of a diverse workfore.

#### POSTDOCTORAL POSITION Mechanistic Enzymology

NIH-funded position available to study mechanisms by which enzymes generate and control organic radicals to catalyze unusual carbon-skeleton rearrangements. Techniques include synthesis of isotopically labeled substrates, steady state and presteady state kinetics, and site-directed mutagenesis. Applicants should recently have obtained or be about to obtain a Ph.D. in a relevant area of research. Send curriculum vitac and names of three references to: Dr. Neil Marsh, Department of Chemistry, University of Michigan, Ann Arbor, MI 48109-1055. FAX: 734-615-3790; e-mail: nmarsh@umich.edu.

#### **RESEARCH DEVELOPMENT SCIENTIST**

Ph.D. Biochemist. Molecular Biology, protein chemistry, or related experience to joint research and development team. Send résumé to: **Genotech, 92 Weldon Parkway, St. Louis, MO 63043**. For information, visit Employment Page at website: http:// www.genotech.com.



## Physics of Next Generation Photonics Devices





Science Foundation Ireland (SFI) has been created to support basic research in strategic fields relevant to Ireland's industrial development. The Foundation's objective is to help create significant clusters of excellence in fundamental research initially in Information and Communication Technologies (ICT), Biotechnology and related disciplines - which will be of a scale and visibility that are widely acknowledged (see www.sfi.ie).

In support of this objective, SFI has approved a major five-year project to be led by Prof. Eoin O'Reilly at NMRC, University College Cork, to investigate the Physics of Next Generation ICT Photonic Devices and to establish the ICT Photonic Software Laboratory. NMRC is Ireland's world-class ICT research centre utilising state-of-the-art infrastructure within a broad research agenda from optoelectronics and nanotechnology to microelectronics and ICT/Life Sciences.

The overall aim of this programme is to establish a world-class research group at NMRC in fundamental studies of next generation photonic materials and devices to enable the design of innovative photonic structures for new applications. The research will be theory-driven but with a significant experimental component, spanning basic science through to investigations of fundamental processes limiting present day devices, and including design and modelling of new and optimised devices. To commence this research activity, we now seek a Senior Researcher (1), Postdoctoral Researchers (2) and postgraduate student (1) in the following areas:

#### **Physics and Applications of New Materials**

Major advances in photonics depend both on new materials systems and improved fundamental understanding. We will investigate several different classes of materials, including semiconductor quantum dot structures, dilute nitride alloys and conjugate polymers, as well as simple photonic band gap structures, and their non-linear interaction with ultrashort optical pulses.

#### **Carrier Correlation and Scattering Processes**

We also seek to investigate carrier-carrier correlation and scattering effects, as well as femtosecond pulse propagation. These processes play a key role in semiconductor and polymer gain media, with applications to the development of novel non-linear photonic band gap structures, extreme non-linear optics and terahertz optoelectronics, all longer term interests of the research programme.

Applicants for the Senior Researcher position will already have a significant international reputation in a relevant field. Candidates for this and the other post-doctoral positions should have a PhD in Physics or a related discipline, and a strong research record in computational modelling. Informal enquiries concerning all positions can be made to Prof. Eoin O'Reilly (tel +44 1483 689406; email eoin.oreilly@nmrc.ie.

Applications to: Clodagh Gleeson, HR Officer, email: cgleeson@nmrc.ie. Tel: + 353 21 4904232; NMRC, Lee Maltings, Prospect Row, Cork, Ireland.

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#### Manager Regulatory Affairs, Clinical Development

You'll be responsible for the development and implementation of clinical strategies for 1-2 projects, including the preparation and submission of regulatory documentation to FDA and international health authorities; ensuring the quality, content and format of regulatory submissions; and interacting with and managing one or more Regulatory Affairs Associates. Requires a BA/BS or equivalent with 4-5 years experience in the medical, pharmaceutical or device/diagnostic industries, including R&D experience and 3-4 years of experience in regulatory affairs. Strong knowledge of regulations/guidelines (particularly clinical drug development) is essential. This position requires that you have strong leadership ability in team and department settings. Job Code 3078-SCI

#### Director Regulatory Affairs, Clinical Development

In this leadership position and working with the Sr. Director, you will oversee the development and implementation of sound regulatory strategies for the successful licensure of multiple products; your work will influence significant interorganizational operations. You will be responsible for development of direct reports in the Clinical Development Group within Regulatory Affairs, as well as for the management of departmental resources. In addition, you will be working to develop departmental guide-lines and to ensure that original INDs, NDAs, BLAs, MAAs and major supplements are prepared to meet the highest regulatory standards for content and format and are consistent with the goals of Genentech. For this key position you must have a BS, MS or PhD in a scientific, healthcare, or related field or equivalent and 8+ years of experience in regulatory affairs. Demonstrated leadership and effective interpersonal skills are required, and experience in the clinical development of NCEs, NMEs or marketed products is essential. Job Code: 3035-SCI

#### Sr. Associate Regulatory Affairs, CMC

You will participate in the preparation and submission of documents to the FDA and international health authorities, as appropriate. Your primary responsibility is the administration of documents/reports, which includes compiling review process comments, coordinating meetings with internal and external authors and reviewers and taking notes from discussions and teleconferences. In this position, you will have the opportunity to learn and communicate current regulations, guide-lines, etc. to appropriate personnel. Requires a BS in a scientific, healthcare, or related field and several years of pharmaceutical industry experience. Job Code: 3558-SCI

To apply, please email your resume, indicating the appropriate Job Code, to griffin.kristi@gene.com (place Job Code in the subject field; ASCII files only). Or mail to Genentech. Inc., Attn: Human Resources, PO Box 1950, South San Francisco, CA 94083-1950. Genentech is an Equal Opportunity Employer.

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#### Postdoctoral Position in Signal Transduction



National Institute on Aging

A postdoctoral position is available for the study of T cell receptor (TCR) signaling. Areas of particular interest include the role of Tec family protein tyrosine kinases (Itk, Rlk and Tec) in TCR signaling, as well as the role of PI3-kinase and PTEN in controlling signaling, activation and proliferation responses in various T cell models.

Candidates must have received their doctoral degree within the last five years and have experience in molecular biology and/or cellular biology. Experience in immunology and biochemistry are desirable, but not required.

Please send (preferably by Fax or email) a cover letter, CV and names and contact information of three references to:

> Ronald L. Wange, Ph.D. Laboratory of Cellular and Molecular Biology National Institutes on Aging National Institutes of Health 5600 Nathan Shock Dr., MSC-12 Baltimore, MD 21224-6825 Fax: (410) 558-8107 wanger@grc.nia.nih.gov





#### MAYO CLINIC POSTDOCTORAL POSITIONS

NIH-funded postdoctoral positions are available immediately to work in the area of DNA damage-signaling pathways and cancer biology. The lab currently focuses on the biochemical and molecular aspects of breast/ovarian cancer and the roles of tumor suppressor genes p53, Chk2, BRCA1/BRCA2 and the DNA damage-signaling pathway in tumorigenesis. The approaches we are using range from mammalian cell culture, molecular biology to mouse and yeast genetics. A strong background in molecular and cellular biology is essential. We are seeking candidates who are self-motivated and careeroriented. The research environment at Mavo Clinic is excellent. Prospective applicants are encouraged to contact me by e-mail at Chen.junjie@mayo.edu or letter to:

Junjie Chen, Ph.D. Department of Oncology Guggenheim Building, Room 1342 Mayo Clinic 200 First Street, SW Rochester, MN 55905 See also:http://www.mayo.edu/research/

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#### INTERNATIONAL LIVESTOCK RESEARCH INSTITUTE

#### **POSITION ANNOUNCEMENTS**

The International Livestock Research Institute (ILRI) is a non-profit international research organisation, serving a global mandate to improve productivity of smallholder livestock systems and to protect the natural resources that support these systems. ILRI has staff and research activities in Africa, Asia and Latin America; ILRI's principal research facilities are located in Kenya and Ethiopia and its headquarters are based in Nairobi, Kenya.

#### ILRI currently has the following postdoctoral and scientist positions available:

Systems Analysis and Impact Assessment Programme (Dr P Thornton – email p.thornton@cgiar.org): Scientist – Remote Sensing: to lead activities related to the development of remote sensing tools and techniques and their application in systems ecology and in pastoral and crop-livestock systems across the developing world. (ref: RS/05/01).

#### People, Livestock and Environment Programme (Dr R Reid – email r.reid@cgiar.org):

**Scientist – Ecosystem Modeler**: to lead ecosystem modeling research on management and policy alternatives for pastoralwildlife ecosystems; nutrient cycling in agro-ecosystems, and modeling the effects of land-use and climate change on livestock ecosystems in the developing world (ref: ESM/05/01).

#### Livestock Health Programme (Dr S Morzaria – email s.morzaria@cgiar.org):

The group developing subunit vaccines against East Coast fever (ECF, caused by the tick-transmitted protozoan parasite *Theileria parva*) has several vacancies requiring a range of skills including cellular and molecular immunology, immunochemistry, molecular biology, and bioinformatics. Work extends from identification of antigens containing CTL epitopes to testing of vaccine candidates to evoke protective immune responses in cattle.

Scientist – Molecular Immunologist: At least 6 years experience in antigen identification, and delivery is required (ref: MI/06/01).

**Postdoc – Cellular Immunologist:** responsible for refining a bovine antigen presentation cell system to identify candidate antigens using CTL reagents from immune cattle (ref: PD/CI/06/01).

**Postdoc – Molecular Immunologist:** responsible for the assessment of antigen delivery systems based on viral vectors (ref: PD/ADS/06/01).

**Postdoc – Molecular Immunologist:** responsible for the generation of bovine MHC class I typing reagents for characterisation of target cattle population (ref: PD/MHC/06/01).

**Postdoc – Molecular Biologist:** responsible for the production of plasmid and recombinant proteins using fermentation procedures (ref: PD/PRP/06/01).

**Programme Specialist – Bioinformatics:** to assist in exploitation of the *T. parva* genome data to identify genes for evaluation as vaccine candidates (ref: PS/BIO/06/01).

#### Livestock Policy Analysis Programme (Dr S Ehui – email s.ehui@cgiar.org):

Scientist – Agricultural Economist (Markets and Trade): to lead, develop and implement market and trade policy related projects (ref: AE/MTE/01).

Scientist – Agricultural Economist (Technology Policy): to lead, develop and implement projects in the area of livestock technology policy (ref: AE/TPE/01).

#### **Applications:**

Detailed information, terms of reference and screening deadlines for each position is available from the ILRI website at http://www.cgiar.org/ilri/ or email ILRI-KENYA@cgiar.org for details, quoting reference number. Informal enquiries can be made to the Programme Leaders named above or Professor David W Taylor, Deputy Director General, responsible for research at D.Taylor@cgiar.org.

Applicants should send a cover letter, *curriculum vitae* and the names and addresses (including telephone, fax and email) of three referees who are knowledgeable about the candidate's professional qualifications and work experience to the **Human Resources Manager, ILRI, P.O. Box 30709, Nairobi, Kenya; Telephone: 254-2-630743; Fax: 254-2-631499; e-mail: ILRI-KENYA@cgiar.org**. The name and reference number of the position for which the application is made should be clearly quoted.

ILRI is an equal opportunity employer.

Qualified women and professionals from developing countries are particularly encouraged to apply.

## Discovery is just taking CURIOSITY

#### SKOKIE, ILLINOIS

#### Investigative Toxicology, Postdoctoral Position

(This position resides in St. Louis.)

As a member of the Investigative Toxicology group, this individual will initiate and coordinate a multidisciplinary approach to identifying biomarkers for unique toxicities identified in preclinical development. A specific goal will be to identify and develop at least one biomarker of toxicity within a 2-year time frame. A secondary goal will be to identify biomarkers of more generalized tissue injury while establishing a general approach to biomarker discovery and validation which can be applied more broadly across all programs. Initially, focus will be on the development and utilization of proteomics tools with the opportunity to utilize genomics and metabonomics approaches. Additional resource tools will include bioinformatics support. Significant opportunities abound to coordinate and integrate across Pre-Clinical Development and Discovery laboratories. This position requires a recent PhD in Toxicology/Pharmacology or a related discipline, practical work experience in protein biochemistry, molecular toxicology, mass spectrometry/ NMR or bioinformatics, and a demonstrated ability to communicate orally and in writing with colleagues and non-professionals.

#### **Experimental Pathology, Postdoctoral Position**

Our Global Toxicology Department, Experimental Pathology group has a postdoctoral position to study molecular markers and signaling pathways involved in the pathogenesis of osteoarthritis. Investigations will primarily focus on elucidating the expression profile of major molecular targets in animal models, correlating gene expression profiles with in vivo response to specific inhibitors, identifying promising new molecular targets and understanding their role in the development of pathologic or toxic events. A strong emphasis will be put on the identification and understanding of potential biomarkers of efficacy and toxicity that could be used in preclinical and clinical settings. Close interaction with pathologists, toxicologists, pharmacologists and molecular biologists is necessary to design in vivo and in vitro studies, develop novel techniques and participate in the development of safe new drug candidates. A PhD in Biology, Molecular Biology or related discipline and excellent interpersonal and problem-solving skills are required. Expertise in cartilage and matrix degradation, a strong background in molecular pathology techniques, and a good publication record are desired.

#### Project for Immunotoxicology Laboratory, Postdoctoral Position

A position for a PhD is available immediately to study mechanisms and develop models of immune-mediated drug hypersensitivity reactions (IDHR) with a goal to develop animal models for IDHRs using both comparator and Pharmacia compounds known to produce such an effect preclinically or clinically. Animal models of focus with considerable promise include the popliteal lymph node assay, alternate local lymph node assay, transgenic mouse model (IL-10 knockout) and autoimmune models such as the Brown Norway rat. In addition, investigation into understanding the mechanism of hypersensitivity responses in an animal model would be conducted to identify potential clinical biomarkers. Experience in tissue culture, flow cytometry, in vivo exposure techniques, cell-based proliferative and cytotoxic assays is preferred. A background in immunotoxicology is preferred; however, candidates with a strong background in immunology, cellular biology or biomedical toxicology and a desire to extend training to immunotoxicology may apply. The successful candidate will work with Sylvia M. Furst, PhD, and Wendy Komocsar, BS, MT (ASCP) SI, at our Center for Excellence in Immunotoxicology Laboratory, Global Toxicology.

#### Molecular Carcinogenesis/Genetic Toxicology, Postdoctoral Position

As a member of our Global Toxicology Department, this individual will investigate molecular mechanisms of carcinogenesis and work on projects, including the development and/or improvement of *in vitro* models for carcinogenesis using transgenic and knockout models. Projects will involve using toxicogenomics/gene expression profiling and molecular and cell biology methods to investigate mechanisms of genetic toxicity and carcinogenicity. A major focus will be toward the discovery and validation of both prognostic and diagnostic biomarkers for genetic toxicity, carcinogenicity and other toxicities, while working on multidisciplinary teams. A PhD in Pharmacology, Toxicology or a related area, background in cellular mechanisms of disease, a working knowledge of various molecular and cellular biological techniques, and excellent communication skills are required. Knowledge of gene expression profiling techniques is a plus.



When curiosity is developed to its full potential, great discoveries are made. At Pharmacia Corporation, we invest over \$2+ billion a year in R&D with major activities focused in the areas of arthritis/inflammation, cancer, infectious diseases, cardiovascular and metabolic diseases, and disorders of the central nervous system. Exciting opportunities now exist for innovative, forward-thinking professionals to join our teams in Kalamazoo, Michigan, St. Louis, Missouri, and Skokie, Illinois.

#### **Global Toxicology, Postdoctoral Position**

As a member of our research team responsible for drug safety, the successful candidate will work across functional areas with pharmacologists, toxicologists and other medical scientists from industry and academics to help identify new methodology and expand upon existing procedures in Safety Pharmacology. You will provide the principal technical direction for nuclear medicine and gamma scintigraphy aspects of the group, including large and small animal *in vivo* studies. You will work closely with the Head of Safety, Pharmacology, to develop and test new models of non-invasive data acquisition, including measuring cardiovascular, gastrointestinal, and renal physiological parameters via scintigraphy. Requirements include a PhD in Physiology, Pharmacology, Toxicology or related field plus *in vivo* experience. Background in the principles of nuclear imaging or scintigraphy would be beneficial, but highly qualified candidates without this history will also be considered.

To apply for the above opportunities, please email your resume to **ling.s.pyng@pharmacia.com**, fax to **847-982-4637**, or mail to **Pharmacia Corporation, Staffing, 4901 Searle Parkway, Skokie, IL 60077**.

#### **KALAMAZOO, MICHIGAN**

#### **Gene Knockout Scientist**

As a member of our Genomic Sciences group, this individual will map out and establish a program in high throughput gene knockout/knockdown in the mouse. A PhD in Molecular Biology, Biochemistry or related science field and expertise in one or more of the following areas are required: chemical mutagenesis (ES cells/spermatogonia), RNA interference, chimeraplasty or zinc finger protein (ZFP)-mediated repression. Excellent technical, communication and organizational skills and the ability to manage internal and external collaborations are essential. **Req. #01-2722. Respond to** http://respond.webhire.com/job/id?479-r2722-J1

#### ST. LOUIS, MISSOURI

#### Molecular Biologist, PhD

We require a candidate with a PhD in Molecular Biology, Biochemistry, Cell Biology or related field with 2+ years experience working in the area of nuclear receptors. A good understanding of the molecular mechanisms involved in the nuclear receptor function and the biology of steroid and/or orphan receptors involved in lipid metabolism/inflammation/CNS/oncology is essential, as is the ability to design and identify novel nuclear receptor drugs as a result. A track record of innovative research and scientific publications in the field of nuclear receptors, strong communication skills, and the ability to meet aggressive timelines within a team environment are also required. **Reg. #01-2824. Respond to http://respond.webhire.com/job/id?479-r2824-J2** 

#### Senior Pharmacokinetics Specialist

This individual will focus on the development and application of advanced technology approaches to allow early simulation and modeling of human *in vivo* PK and PK/PD, develop advanced PK and PK/PD modeling tools, and integrate new technology based on Preclinical Development project needs. Interactions with other area leaders, including travel to other Pharmacia sites and attendance at critical scientific meetings will be required. Requirements include a PhD in Pharmacokinetics, Pharmacology or related discipline, experience in PK and PK/PD modeling and their appli-

cations, and knowledge of computer-based tools for PK and PK/PD modeling. Strong computational and computer skills and 5+ years post-PhD experience in PK and PK/PD are essential. Expertise in the use of advanced PK and PK/PD simulation and modeling tools is desired. **Req. #01-3019. Respond to http://respond.webhire.com/job/id?479-r3019-J1** 

#### Pharmacokinetics Specialist

While developing and applying advanced technology approaches to allow early simulation and modeling of human ADME/PK, this individual will also develop PK and ADME simulation and modeling tools and integrate *in silico* approaches and new technology based on Preclinical Development project needs. Travel to other company sites and attendance at critical scientific meetings will be required. Requirements include a PhD in Pharmacokinetics, Pharmacology or related discipline, 2-5+ years post-PhD experience in PK/metabolism including PK modeling and its applications, and knowledge of computer-based tools for PK modeling. Strong computational skills are essential. Expertise in the use of PK simulation, modeling tools, and experience in ADME *in silico* approaches such as Camitro and METEOR are desired. **Req.**#01-3004. Respond to http://respond.webhire.com/job/id?479-r3004-J1

#### **Research Scientist, In Silico Toxicology**

This individual will focus on developing and applying *in silico* toxicity prediction tools to support product discovery and development, develop and validate computer-based toxicity predictive tools, and integrate new technology based on Preclinical Development project needs. Travel to other company sites and attendance at critical scientific meetings will be required, along with an MS or PhD in Computational Biopharmaceutics, Toxicology, Biology, Pharmacology or related discipline, 1-3 years related postgraduate experience, knowledge of computer-based tools for toxicity prediction, and excellent computational and communication skills. Expertise in the development of *in silico*-based systems for toxiciology prediction desired. **Req. #01-3002. Respond to http://respond.webhire.com/job/id?479-r3002-J1** 

#### **Research Specialist, In Silico ADME**

While developing and applying *in silico* ADME/PK prediction tools to support product discovery and development, this individual will also develop and validate computer-based ADME/PK predictive tools, integrate new technology into PCD project needs, and have direct reports at the BS level. Travel will be required to other Pharmacia sites and also to critical scientific meetings. A PhD in Computational Biopharmaceutics, Drug Metabolism, Biology, Pharmacology or related discipline, 2-5 years postdoctoral experience in ADME/PK, and knowledge of toxicology and computer-based tools for ADME prediction are required. Experience in computer-based ADME/PK prediction systems and excellent communication skills are essential. Expertise in the use of ADME prediction systems such as METEOR, Camitro, MULTICASE is desired. **Req.** #01-3000. Respond to http://respond.webhire.com/job/id?479-r3000-J1

Curious? Discover your potential with Pharmacia. Our workplace is one of open communication, teamwork and respect. We offer generous compensation and benefits, performance rewards, and entrepreneurial opportunities for personal and career development. You may submit a resume by our preferred method of response using the applicable URL listed above. Or fax your resume, indicating the appropriate Req. #, to 520-287-0963. As an EEO/AA employer, Pharmacia Corporation values a diverse combination of ideas, perspectives and cultures. For more information and other opportunities, please visit our website at www.pharmacia.com. As one of the world's top five pharmaceutical organizations, AstraZeneca is on the front lines of drug discovery and development. Together, our nine R&D centers around the world have delivered some of the most effective and widely used pharmaceuticals available. And today, with the addition of our state-of-the-art AstraZeneca R&D Boston center in Waltham, Massachusetts, we are better equipped than ever to deliver new drugs that ensure a higher quality of life for people around the globe.

AstraZeneca R&D Boston's striking new facility reflects the innovative environment of our leading-edge pharmaceutical research in Cancer and Infectious Diseases. Our Enabling Science and Technology Center is part of this exciting new venue, providing powerful capabilities in biological, chemical, and scientific computing technology to AstraZeneca R&D worldwide. Together with our other facilities, we are bringing life-enhancing medicines to patients around the globe, and creating an even more dynamic environment for our international scientific community.



#### Global Director, Bioinformatics

You will establish and promote best practice in bioinformatics and in silico research globally across AZ Discovery. You will also promote scientific development and advancement within bioinformatics as well as develop strategic recruiting and resourcing plans.

At the AZ Boston site, you will develop an integrated informatics activity through the combined implementation of the individual bioinformatics, cheminformatics and statistics activities there. You will also implement global programs and informatics services at AZ Boston and other North American sites, working in close collaboration with other disease-focused informatics groups.

Candidates should have a Ph.D. in Computational or Life Sciences with 10 years of leadership experience in Informatics or a closely related field (preferably with Pharmaceutical or Biotech industry experience). A strong publication record in Informatics, Genomics, and related fields as well as project and personnel management experience (preferably across sites/countries) are also required.

It is preferred that the Director be based in the EST Center at AstraZeneca R&D Boston, but it is also possible to be based in the UK or Sweden.

Qualified candidates, please forward your resume, referencing
Science 7/6, to: AstraZeneca R&D Boston, 35 Gatehouse
Drive, Waltham, MA 02451; E-mail: hr@astrazeneca.com;
Fax: 781.839.4530. Diversity is the essence of our science, our careers and our lives. We are an equal opportunity employer.



One powerful source for your career: www.astrazeneca-boston.com



## PARADIGM:

#### THE FUSION OF SCIENCE AND TECHNOLOGY

Paradigm Genetics, Inc. is industrializing the process of gene function determination for four major sectors of the alobal economy; human health, nutrition, crop production, and industrial products. We are located in Research Triangle Park, North Carolina, part of the progressive Triangle----the area of Raleigh/Durham delineated by Duke University, N.C. State University and the University of North Carolina at Chapel Hill. This unique location provides unparalleled access to world-class educational resources, diverse and rich cultural opportunities, excellent medical care, and a high standard of living. Access to North Carolina's beautiful beaches and the Smoky Mountains are just a few hours drive away from the Triangle. We are currently seeking a qualified individual for the following position to join our dynamic team:

#### Director Biochemistry – Assay Development

This group is responsible for all aspects of HTS design and development from gene cloning through validation and installation (screening excluded). Technologies and formats include enzyme, receptor binding, reporter gene, phage display, and immunological. Industrial experience is essential. Experience with various expression systems, purification techniques, enzyme kinetics, immunochemistry, and robotics is preferable. Requires a Ph.D. and 10 years of industrial experience or MS/BS with industrial experience; project management and supervisory experience; and a working knowledge of the design and delivery of HTS assays is an absolute must. ScienceMag #158

Discover a compelling professional environment on the leading edge of technology—and the compensation you deserve—by sending your resume, referencing job code and salary history, to: **Paradigm Genetics, Human Resources, E-mail: resumes@paragen.com or apply on-line at www.paragen.com** No phone calls please. Principals only. EOE



#### University of Arkansas at Little Rock Dean College of Science and Mathematics

The University of Arkansas at Little Rock (UALR) invites nominations and applications for the position of Dean of the College of Science and Mathematics. As the chief academic of the College, the Dean reports to the Provost and Vice Chancellor for Academic Affairs.

UALR (www.ualr.edu) is a member of the multi-campus University of Arkansas System and enrolls over 11,000 students. The college offers 20 undergraduate and four master's programs, and serves over 1100 majors, with more than 100 full-time faculty in seven departments (Biology, Chemistry, Earth Science, Health Science, Mathematics and Statistics, Nursing, and Physics and Astronomy). The College collaborates with the College of Information Science and Systems Engineering in offering the Ph.D. in Applied Science with these emphasis areas: Applied Biosciences, Applied Chemistry, Engineering Science and Systems, Applied Physics, Applied Computing, and Computational Science.

Requirements for the position include: (1) earned doctorate in science or mathematics; (2) record of scholarly activity sufficient to warrant tenured appoinment at the rate of professor in an academic department within the College; and (3) administrative experience at the department chair level (or equivalent) or higher.

Preference will be given to candidates who possess the following characteristics: (1) commitment to high-quality undergraduate teaching and assessment of student learning; (2) record of supporting faculty excellence in research; (3) record of innovative and effective administrative leadership and achievement; (4) effective interpersonal and communication skills; (5) record of obtaining external fundings; (6) commitment to outreach programs and community partnerships; (7) experience in strategic planning and program evaluation; (8) understanding of the complex and challenging issues affecting higher education in the United States; (9) appreciation of the importance of new technologies; (10) commitment to developing mathematics and science initiatives in public education; (11) sensitivity to gender and diversity issues and affirmative action principles.

The University of Arkansas for Medical Sciences (UAMS), a separate campus, is also located in Little Rock. Persons who are well equipped to lead the College in expanding and strengthening relationships with this nearby medical campus are stongly encouraged to apply.

A metropolitan university in the Carnegie classification of doctoral/research-intensive, UALR is active in many aspects of development in Arkansas. Little Rock, the state capital and an urban area with a population of over 400,000, is the geographic, governmental, economic, communication, and medical center of Arkansas. UALR's location provides exceptional opportunities for outreach by UALR faculty and staff. UALR faculty and staff collaborate with professionals in world-class medical and research facilities, federal and state agencies, non-profit organizations, and a growing number of technology-based businesses.

The projected starting date is July 1, 2002. The salary is competitive. Review of applications will begin October 15, 2001, and will continue until the position is filled.

Nominations, applications, and requests for additional information should be directed to the chair of search committee: Dr. Deborah J. Baldwin, Dean, College of Arts, Humanities, and Social Sciences, University of Arkansas at Little Rock, 2801 South University Avenue, Little Rock, Arkansas 72204. Tel: (501) 569-3296, Fax: (501) 569-8775, e-mail: djbaldwin@ualr.edu.

Completed applications will include a current curriculum vitae, a letter of application addressing the applicant's educational and administrative approach/style, and the names, addresses, and telephone numbers of five references who may be contacted regarding the applicant.

The University of Arkansas at Little Rock is an equal opportunity, affirmative action employer and actively seeks the candidacy of minorities, Vietnam era veterans, and persons with disabilities. Under the Arkansas Freedom of Information Act, all applications are subject to disclosure.

## Stability. Structure. Strength.

The Science of Success.

AlphaVax, Inc., located in Research Triangle Park, NC, is a rapidly growing vaccine company that is developing a new generation of human vaccines based on a novel alphavirus vector delivery system. The AlphaVax vector system constitutes a major advance in vaccine technology and has the potential to exert a significant influence on the future course of the vaccine industry. Immediate applications of the technology include a variety of preventative and therapeutic vaccines for infectious diseases and cancer. We are currently rearviting qualified candidates for the following key position:

#### Molecular Virologist/Microbiologist

The Research/Senior Research Scientist in Applied Research will be accountable for planning, conducting, interpreting and evaluating fundamental and applied research in a team-oriented environment for the development of new and improved human and veterinary vaccines using the company's proprietary Alphavirus vector technology. A Ph.D. in Microbiology or closely related field, with expertise in cell culture and molecular biological techniques is required. Preference may be given to

candidates with experience in pharmaceutical or biotechnological vaccine development. The candidate should be self-motivated, have a solid track record of publishing in peer reviewed journals and excellent written and oral communication skills. Job# 02-102

AlphaVax

AlphaVax offers competitive compensation, an attractive benefits package, the opportunity for professional advancement and career growth. If you meet the position requirements listed above and are seeking an opportunity to contribute in a challenging, small-company environment, please send your resume and salary history, referencing Job#, to: AlphaVax, Inc., Human Resource Dept., RO. Box 110307, 2 Triangle Drive, Research Triangle Park, NC 27709; E-mail: elliott@alphavax.com; or FAX: (919) 595-0410. EOE

#### Chairperson Department of Phamacology and Toxicology

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

The deadline for receipt of these materials is October 5, 2001. MSU is an affirmative action equal opportunity institution. Women and minorities are encouraged to apply. People with disabilities have the right to request and receive reasonable accommodation.

#### **RESEARCH SCIENTIST POSITIONS**

IN PARKINSON'S DISEASE



Sun Health Research Institute is expanding the Thomas H. Christopher Center for Parkinson's Disease Research. Outstanding individuals are sought for three positions, junior and senior, available spring of 2002. Areas of interest include neurodegeneration, neuroprotection, gene array analysis and other areas applicable to Parkinson's disease. The scientists will interact with existing faculty interested in basic and clinical science of neurodegenerative disorders. The positions offer generous start-up funds, salary and benefit packages. A Ph.D. in neuroscience, molecular biology, pharmacology, cell biology or related field along with two years of postdoctoral experience are required. Review of applications will begin September 1, and will continue unil the positions are filled. All applications should contain the following materials, current curricullm viae and list of publications, concise statement of interest (max of 3 pages) of research accomplishments and future plans, names and contact information for three references.

Please submit to Faculty Search in care of Dr. Jeffrey N. Joyce, Parkinson's Disease Research Center, Sun Health Research Institute, 10515 West Santa Fe Dr, Sun City Az, 85351.

Sun Health Research Institute, a nonprofit research institute located in metropolitan Phoenix area, conducts research in age-realted diseases including Alzheimer's, Parkinson's and Arthritis. There are over 60 scientsits, neurologists and staff working within nine centers and laboratories. Visit us at www.shri.org

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#### MSU-DOE PLANT RESEARCH LABORATORY Michigan State University Faculty Positions in Plant Biology

The MSU-DOE Plant Research Laboratory (PRL) has **two tenure-track faculty positions** available, one at the Assistant Professor level and the other at the Assistant, Associate or Full Professor level. The specific areas of research are not defined, but candidates should plan to employ optimal technologies to investigate important unsolved problems in plant biology. We are especially interested in identifying individuals whose expertise complements that of the existing faculty and who are studying problems that are unique to plants or where plant systems offer particular advantages.

The PRL, with funding from the U.S. Department of Energy, provides an excellent environment for creative research in plant biology. Modern laboratory space, set-up funds, and continuing research support will be provided. Michigan State University, with unusual breadth and depth in the plant sciences, provides a stimulating atmosphere with excellent colleagues and facilities. PRL faculty members are jointly appointed in an appropriate academic department.

Applicants for Assistant Professor positions should have postdoctoral research experience with demonstrated productivity and evidence of potential for independent research. Applicants for a senior position should have an established record of research excellence. Women and minorities are particularly encouraged to apply. To assure consideration, applications should be received by September 15, 2001. Applications should include a curriculum vitae, a summary of research accomplishments, and a brief description of future plans. Candidates for an Assistant Professor position should arrange to have three letters of reference sent to the search committee; candidates for a senior position should provide the names and addresses of three referees. All materials should be sent to:

Faculty Search Committee MSU-DOE Plant Research Laboratory Michigan State University East Lansing, MI 48824

Michigan State University is an Equal Opportunity/ Affirmative Action Employer. The School of Biomedical Engineering of the University of Tennessee Health Science Center, located in Memphis, announces the availability of three tenure-track positions. Faculty appointed to these positions will also have a major role in the UM/UT Graduate Program in Biomedical Engineering, operated jointly with the University of Memphis, and will receive joint appointments to that university.

The most senior of these positions, the J.R. Hyde Chair of Excellence, is one of two endowed professorships in the school. Applicants should have a doctoral degree in engineering or a related field. In addition, they should have a substantive research program with resulting peer reviewed publications, and which includes a sustained history of external research funding, as well as a record of teaching excellence. The other two positions are more junior, but applicants must show evidence of, or strong potential for, excellence in research and teaching.

There is a desire that these positions promote research collaborations between the School and existing University of Tennessee Centers of Excellence in Connective Tissue Diseases, Genomics and Bioinformatics, Neurosciences, or Vascular Biology, and/or with the Memphis Program for Biomedical Engineering in Pediatrics which receives start-up funding from the Whitaker Foundation and which funds one of the junior positions.

It is preferred that the research focus of the other open position complement research strengths of existing faculty. These include biomechanics and rehabilitation engineering, biosensors and instrumentation, cell and tissue engineering, electrophysiology and modeling, informatics, including clinical informatics, and medical imaging. In addition to the named emphasis areas, a highly qualified applicant in any area of Biomedical Engineering should apply for any of these positions.

In addition to the two major universities, our faculties collaborate with the several major teaching hospitals in the medical center, including the internationally known St. Jude Children's Research Hospital, which is undergoing a major physical and programmatic expansion, as well as with the three major orthopedic implant manufacturers and affiliated companies located in Memphis.

Letters of application including CVs and names of at least three references should be sent to: Herbert Zeman, PhD Co-Chair, Faculty Search Committee School of Biomedical Engineering University of Tennessee Health Science Center 899 Madison Ave., Suite 801 Memphis, TN 38163 hzeman@utmem.edu 901-448-8454

Specific questions about the program and about these positions can also be addressed to: Jack Buchanan, MSEE, MD Acting Director and Co-Chair of Search Committee School of Biomedical Engineering University of Tennessee Health Science Center jbuchanan@utmem.edu 901-448-7200

The University of Tennessee Health Science Center is an EEO/AA/Title VI/Title IX/Section 504/ ADA/ADEA employer. R07-0101-27-001-01(1661)



## Solutions for Genomic Research

Incyte Genomics, Inc., headquartered in Palo Alto, California, is the leading provider of an integrated platform of genomic technologies designed to aid in the understanding of the molecular basis of disease.

#### **Marketing Executive**

You will lead the development and execution of business, marketing and sales plans for a new genomics-based database in the dynamic field of predictive toxicology and small molecule lead optimization. Requires an MBA, PhD in Life Sciences or equivalent with at least 8-10 years demonstrated experience. Job #: RS6584AL

#### Key Account Managers (Midwest, East and West Coast territories)

Using your expertise in our product lines and their application for pharmaceutical, biotech, and research institution clients, you will generate revenue from the sale of all products/services in assigned territories and accounts. Requires a PhD in Life Sciences or equivalent technical experience, 5+ years large-ticket (\$IMM+) sales experience to pharmaceutical/biotech customers and a proven track record meeting/exceeding aggressive sales quotas. Job #: JAS05RS

#### **Director of Product Marketing (Microarrays)**

You will develop quality business/marketing plans which align with corporate strategies, coordinate activities across product areas and foster new market opportunities. Requires 5+ years experience in marketing management, preferably in IT or pharmaceutical/biotech industries, and/or proven record in leading an organization and launching a product. An MBA or PhD in Business Administration, Life Sciences or Engineering is desired. Job #: RS05SR

#### **Scientist/Senior Scientist**

Providing scientific leadership to a team of editors, you will use available bioinformatics and sequence analysis tools to edit EST and genomic sequences and generate full-length genes. Requires a PhD in Biology or related discipline (or equivalent) and excellent communication skills, both written and verbal. Familiarity with bioinformatics and sequence analysis tools, proficiency in UNIX, and management experience are desired. Job #: TY5315MB

#### Scientist II

You will be responsible for the development and production QC of dataflow, provide scientific leadership, identify and solve problems, and work with cross-functional teams in the development of the new dataflow. Requires a PhD in Biology or related discipline or equivalent and proficiency in UNIX. Experience in bioinformatic tools and excellent problem solving and analytical skills are also required. Knowledge of SQL and Perl is desired. Job #: TY5453JW

#### **IP Attorney II/III**

You will manage a complex IP portfolio requiring development and maintenance of patent applications, trademarks, licensing, and intellectual property aspects of contracts and agreements. Responsible for pre-patent filing and providing legal advice concerning patent viability of company's IP. Requires a JD and MS/PhD in Molecular Biology, Genetics, Immunology or equivalent work experience and 3-5+ years experience in patent preparation and prosecution. Foreign patent experience is desired. Job #: JAS5305DHC

For complete job descriptions and additional openings, please visit our website at **www.incyte.com/company** 

To apply, please send a resume/c.v. to science@incyte.com. We offer competitive salaries, an outstanding benefits package and significant opportunities for professional growth. Incyte Genomics, Inc. values the talents of our diverse workforce and is proud to be an Equal Opportunity Employer F/M/V.

#### UNIVERSITY OF LEEDS

#### SCHOOL OF BIOLOGY TWO LECTURESHIPS/SENIOR LECTURESHIPS in (A) Zoology & (B) Ecology

The School of Biology in the Faculty of Biology Sciences wishes to strengthen its expanding Biomechanics & Comparative Physiology and Ecology & Evolution research groups and to complement and develop its teaching excellence in organismal zoology and population biology.

Post A: You will have research interests in organismal biology of animals, and particularly in functional biology (biomechanics, structure or physiology) or in the behavioural relationship between an animal and its environment. Informal enquiries to Professor Jeremy Rayner, tel: 0113 233 2873, email: j.m.v.rayner@leeds.ac.uk or Professor John Altringham, tel: 0113 233 2832, email: j.d.altringham@leeds.ac.uk Job ref: 056-140-002-009.

Post B: You will have research interests in population biology, evolutionary biology, biodiversity, conservation ecology and/or theoretical biology of animals/plants/microbes/genes. Informal enquiries to Professor Chris Thomas, tel: 0113 233 2841, email: c.d.thomas@leeds.ac.uk or Professor Roger Butlin, tel: 0113 233 3090, email: r.k.butlin@leeds.ac.uk Job ref: 056-141-002-009.

For the above two posts you will also have a strong research profile or will be able to demonstrate exceptional promise, and be capable of teaching high quality undergraduate and postgraduate courses in zoology or population biology. The posts are available from October 2001, from a specific starting date to be mutually agreed. Enquiries are also welcomed from independent researchers with their own fellowships in the areas described above, or from those considering applying for fellowships, who can be offered suitable laboratory space and access to extensive equipment within a stimulating research environment.

Salary: Lecturer A/B (£18,731 - £30,967 p.a. under review). For exceptionally well qualified candidates appointment at Senior Lecturer level is possible (£32,510 - £36,740 p.a. under review).

Further details are available from http://www.leeds.ac.uk/jobadverts/ or contact Human Resources, tel: 0113 233 5771, email: recruitment@adm.leeds.ac.uk quoting appropriate reference number. Closing date: 31 July 2001.

We welcome applications from all sections of the community, regardless of gender, ethnic origin, or disability. Textphone for deaf applicants only 0113 233 4353. All information is available in alternative formats - please contact 0113 233 5771.



#### TOWARDS EQUAL OPPORTUNITIES





## Leading the Way for a Healthier World ™

At Wyeth, a division of Fortune 500 American Home Products Corporation, we have set ourselves apart from the others in the pharmaceutical industry by discovering and developing exceptional pharmaceutical, vaccine and nutritional products. Our strong name becomes even stronger when linked to our outstanding overthe-counter products such as Advil®, Robitussin®, Dimetapp®, ChapStick®, Anbesol® and more. Our superior research, manufacturing, sales and marketing are the result of the effort of our employees united in a shared vision - leading the way for a healthier world. We currently have openings at our Marietta, PA facility.

- Audit Manager
- Compliance Manager
- Biological Development: Principal Residential Scientist
- Biological and Contracts: Project Manager
- Program Manager
- Quality Assurance/Quality Control: Investigations Compliance Manager/ Group Manager/Sr. Compliance Manager, Release Manager, Chemistry Manager
- QA Market & Product Specialist
- Team Leader

The collective skills of 40,000 of the world's top talent keep us on the cutting edge. We care for our people by offering rich avenues for advancement, challenging opportunities, generous compensation, stock options, childcare subsidies, education assistance,

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## **the future** happens here first

At Roche Bioscience, we are committed to innovation in the discovery and clinical development of human pharmaceuticals. Our Inflammatory Diseases Unit pursues new medicines for arthritis and respiratory diseases, while our Neurobiology Business Unit is focused on novel therapies for diseases of the lower urinary tract and central nervous system disorders. Our park-like campus in Palo Alto is equipped with cutting-edge technologies and instrumentation.

#### **POSTDOCTORAL FELLOWSHIP – GENOMICS**

The Neurobiology Genomics group is seeking an individual to develop and characterize transgenic disease models with an initial focus on models of pelvic hypersensitivity/overactive bladder. This project will allow for significant collaborative interactions. Requires a PhD or equivalent. You must be able to employ a wide range of molecular, cellular, and physiological approaches to transgenic model development. Neuroscience background is preferred. Job Code: 1400-SCI

#### **RESEARCH SCIENTIST – MOLECULAR BIOLOGY**

You will develop and implement screening assays to identify leads and possible drug candidates within the Respiratory Diseases group. You will identify, clone and express novel molecular targets, and purify and characterize protein targets, as well as develop preliminary assays (binding and/or Ca2+ flux) and secondary assays (selectivity or functional). Your targets may include enzymes, GPCRs, or nuclear hormone receptors. Requires a BS/MS in Molecular Biology or equivalent and 5-8 years experience. Strong skills with a variety of expression systems (mammalian, yeast, bacterial) and HPLC, Western blot analysis, and standard tissue culture procedures are required, as is a demonstrated ability using ELISA. Job Code: 2436-SCI

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We reward results by offering competitive salaries, incentive compensation and a full benefits package, which includes a 401(k) and a pension plan. To apply, send your resume, indicating the appropriate Job Code, to paloalto.hr\_staffing@roche.com or via mail to Roche Bioscience, 3401 Hillview Avenue, A2-HR, Palo Alto, CA 94304. As an equal opportunity employer, we are committed to workforce diversity.

#### Visit our website at www.paloalto.roche.com.





#### **RESEARCH GROUP LEADER**

The Centre currently houses 17 research groups and carries out world-leading research into fundamental cellular processes (http://www.wcb.ed.ac.uk). You will have developed a creative research programme within this broad discipline and will have at least 3 years of postdoctoral experience. You will also be expected to secure external Research Fellowship support within a year of joining the Centre. Located in the King's Buildings campus of Edinburgh University, Centre scientists study cellular function using the techniques of biochemistry, molecular biology, genetics and microscopy. They have access to state-of-the-art instrumentation in a highly interactive research environment. The Centre forms part of the Institute of Cell and Molecular Biology and benefits from interactions with the flourishing scientific community of Edinburgh University and its associated Research Institutions.

Please quote REF: 316502SI. Closing date: 6 August 2001.

Please send a brief research proposal and CV including the names of three academic referees to: Professor Adrian Bird (Director), Wellcome Trust Centre for Cell Biology, University of Edinburgh, Michael Swann Building, The Kings Buildings, Edinburgh EH9 3JR. Email:

Christine.struthers@ed.ac.uk

Committed to Equality of Opportunity



cells, novel methods for isolation and purification of proteins; and the development of high-throughput systems including the use of robotic systems. Work will include close interactions with biochemists, molecular and structural biologists in an integrated approach to functional and structural genomics. Candidates should have a Ph.D. in biochemistry, biophysics or a related field and significant experience in protein expression, purification and functional analysis.

The Biosciences Division is developing a highly interdisciplinary and collaborative environment for genome-scale analysis of protein structure and function with a focus on Structural genomics and its use in developing a comprehensive understanding of the function of gene products and their contribution to cell function.

For further information, please contact Lee Makowski, Director, Biosciences Division (Imakowski@anl.gov).

Interested candidates should submit curriculum vitae, at least three reference names and addresses, and a short statement of their qualifications with particular relevance to the knowledge, skill and experience requirements cited above to **Susan Walker**, **Box** 

Bio-300997-43, Argonne National Laboratory, 9700 S. Cass Avenue, Argonne, IL 60439.



## Innovative Technology. Exceptional Opportunity.

Amgen, the world's leading biotechnology company, is dedicated to improving patients' lives by offering new human therapeutics. Our first two products, EPOGEN\* (Epoetin alfa) and NEUPOGEN\* (Filgrastim), are among the most successful human therapeutics ever launched.

#### Research Scientist (Pharmacokinetics & Drug Metabolism)

In this crucial role, you will develop immunoassays for the bioanalysis of pharmacokinetic samples from pre-clinical, clinical and toxicology studies. Representing your department, you will also respond to inquiries from regulatory agencies. To qualify, you must have a Ph.D in a biological or related analytical chemistry field. At least 5 years of hands-on experience with bio-therapeutics analysis in a GLP environment, ideally within a pharmaceutical organization, is essential. You must also have an understanding of the role of PK bioanalysis in the drug development process, preferably with experience that spans from discovery research through pre-clinical development to marketing. Excellent statistical and computer skills are needed, as are superb interpersonal, project coordination and multi-tasking abilities.

For immediate consideration, forward your resume, including (Ad Code 778) to: tevarts@amgen.com; or by mail at: (Ad Code 778) Amgen Staffing, P.O. Box 2569, Thousand Oaks, CA 91319-2569. For additional information on Amgen, please visit our www.amgen.com website. EEO/AA Employer M/F/D/V.



Amgen Inc. Thousand Oaks, CA

www.amgen.com

EOE/AA Employer M/F/D/V

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## **FACULTY POSITIONS**

The Department of Biochemistry at the University of Medicine and Dentistry of New Jersey-Robert Wood Johnson Medical School seeks outstanding candidates at the Full and Assistant Professor level in the general areas of Genomics, Structural Genomics and Bioinformatics. The Robert Wood Johnson Medical School and Rutgers University share its campus, and have embarked on a major initiative to recruit experts and establish a world-class center for computational and genomic research. Towards this goal, the Department of Biochemistry has established an Endowed Chair in Bioinformatics (Takara SBG), and also has additional tenure-track lines for junior faculty appointments. The senior appointment should be a recognized leader in the field with an exceptional scientific and funding record. The candidates are expected to maintain a vibrant research program and contribute to teaching. RWJMS, Rutgers and the Center for Advanced Biotechnology and Medicine (CABM) offer an extremely stimulating academic environment that includes over 200 active research groups. The infrastructure available on campus is outstanding, with exceptional facilities for structural and computational biology. Notably, Rutgers University is the repository of the Protein Data Base (PDB) and the hub of the Northeast Structural Genomics Consortium (NESG). RWJMS is in proximity to most major pharmaceutical companies, and is less than an hour from either New York City or Philadelphia

The candidate requires a Ph.D., M.D. or equivalent degree. Please submit curriculum vitae, a brief statement of research, pertinent reprints, and arrange to have 3-4 letters of references sent to: Chair, Bioinformatics Search Committee, Department of Biochemistry, Robert Wood Johnson Medical School, UMDNJ, 675 Hoes Lane, Piscataway, NJ 08854-5635. Deadline for application is September 30, 2001. UMDNJ, is an Affirmative Action/Equal Opportunity Employer, M/F/D/V, and a member of the University Health System of New Jersey. Regrettably, we can respond only to those candidates chosen for an interview. To learn more about us, visit our website: http://www.umdnj.edu/hrweb/



For additional information or to submit your resume, please visit our website at www.hr.anl.gov. Argonne is an equal opportunity employer.

#### University of Basel

#### **Professorship in Observational Astronomy** Nachfolge Prof. Tammann

The Department of Physics and Astronomy announces an opening for a professorship in observational astronomy. The appointment can be at the level of a full or associate professor, or tenure-track assistant professor.

The Department of Physics and Astronomy has approximately 15 faculty members whose research is primarily in the areas of astronomy and astrophysics, nuclear and particle physics, and condensed matter physics. The members of the astronomy group specialize mainly in the areas of Galactic and extragalactic astronomy, nuclear astrophysics, and cosmology

Applicants are expected to have a strong and internationally recognized research record, and outstanding promise for future research accomplishments in observational cosmology or extragalactic astronomy. Optical/Infrared observers working in these areas are particularly invited to apply.

The successful candidate will have a commitment to graduate and undergraduate education, and will be expected to contribute to the usual academic administration

Candidates should submit a curriculum vitae, list of publications, and research plan to: Dekanat der Phil.-Naturw. Fakultät, Klingelbergstrasse 50, CH-4056 Basel, Switzerland, and give names and addresses of three references. We especially encourage qualified women to apply. Web: www.astro.unibas.ch. Closing date is August 31, 2001

#### POSTDOCTORAL FELLOW OR SCIENTIST Functional Genomics of the **Drosophila Transcription Network**

BĂŚĖL

A large interdisciplinary collaboration has been established at Berkelev Lab to undertake a functional genomic analysis of the entire transcriptional regulatory network in the pregastrula Drosophila embryo. This collaboration combines biochemical studies of protein/DNA interactions, image analysis of 3-dimensional patterns of gene expression, comparative DNA sequencing, and a large bioinformatic component. The scientists involved include Mark Biggin, Michael Eisen, David Knowles, Gerry Rubin, Damir Sudar, Robert Tjian, and members of the Berkeley Drosophila Genome Project.

A position is available to develop novel methods to rigorously determine in vitro and in vivo DNA binding specificities and to use these methods to examine the 100+ sequence specific transcription factors active in the early embryo. The successful candidate will oversee the work of several Research Assistants and will perform pilot and methods development experiments. Interaction with our Bioinformatics group, led by Michael Eisen, will be an essential part of determining the optimum methods to use. Experience in biochemical analyses and the purification of proteins is essential. Preference will go to candidates with expertise in the analysis of protein/nucleic acid interactions. The type of position will depend on experience; scientist should have at least 2 years relevant postdoctoral experience.

For immediate consideration, submit your resume and 2-4 letters of recommendation, referencing job title and source code LS/013767/JS for the Scientist position or LS/013768/JS for the Postdoc, to

Lawrence Berkeley National Laboratory, One Cyclotron Road, MS 937-0600, Berkeley, CA 94720. Or online at http://cjo.lbl.gov. Or by sending it in the body of an email to employment@lbl.gov (no attachments, please). Berkeley Lab is an AA/EEO Employer.



#### **Eli Lilly and Company:** Leading the Technology Forefront with Excellence and Innovation into the Future.



Eli Lilly and Company, Sphinx Laboratories, located in Research Triangle Park, North Carolina is utilizing scientific excellence and innovation to develop therapeutic solutions for the world. We seek the best, most diverse professionals to help us in our race of drug discoverv.



#### Group Leader: Protein **Kinase/Phosphatase**

is Making a



We are seeking an individual to lead a team of Ph.D. and associate scientists dedicated to lead generation for kinase and phosphatase targets. This group is responsible for the development of medium and high-throughput screens for novel targets, as well as assays to support lead characterization and optimization. You will set a kinase/phosphatase technology strategy and develop novel approaches to

kinase/phosphatase lead generation. The successful candidate will have a Ph.D. with 5+ years of industrial experience with kinases or phosphatases. Candidates should have a proven track record of accomplishments, leadership and supervisory skills.

Senior Scientist GPCR/Ion Channels

We are seeking an individual with knowledge of GPCR and ion channel targets to design in vitro assays for execution in high-throughput mode. You will be responsible for directing the design, validation and implementation of primary and secondary screening assays and staying abreast of scientific and technology advances in new biochemical and cell-based assay methodologies. This position involves extensive analysis, verification, and interpretation of experimental data. The preferred candidate will have a Ph.D. with 2+ years of industrial experience in GPCRs and/or ion channels.

#### **Postdoctoral Scientist**

The successful candidate will join a project conducted in collaboration with researchers at the University of North Carolina, aimed at developing methods useful for the discovery of ion channel modulators. Requirements include a recent Ph.D. degree in Biochemistry, Physiology, Pharmacology, Neuroscience or related fields. Experience or background in bioinformatics, molecular cloning, electrophysiology or neuropharmacology would be helpful. Techniques will include nucleic acid sequence database analysis, cloning of eucaryotic genes of diverse origin, Xenopus oocyte expression/electrophysiology, mammalian cell transfection, and fluorescent-dye indicators of cellular responses. The position will be for the term of one year and is renewable for a second year upon mutual agreement.

#### Associate Biochemists

Sphinx Laboratories is recruiting several associate biochemists for the following target areas: GPCR/ion channels, intracellular receptors/transcriptional regulation and infectious diseases. Qualified individuals will join mutidiciplinary teams focused on the development of biochemical and/or biological assays for high-throughput screens and lead characterization. Requirements include a BS/MS degree in the Biological Sciences; basic biochemistry, cell culture and molecular biology skills and some research experience. Preference will be given to individuals with experience in one or more of the following areas: G-protein coupled receptors, ion channels, nuclear receptor binding or functional assays, reporter gene assays and/or gene expression analysis, microbiology, microbial physiology and/or microbial molecular biology, high-throughput screening,

Interested applicants should send a curriculum vitae, a summary of research experience and goals, and the names of three individuals willing to submit letters of reference to: Eli Lilly and Company, Sphinx Laboratories, Attn: Human Resources, 20 T.W. Alexander Drive, Research Triangle Park, NC 27709; FAX: (919) 314-4348. We are an equal opportunity employer dedicated

to diversity and the strength it brings to the workplace.



#### University of Basel

## Professorship in Computational Physics

The Department of Physics and Astronomy announces an opening for a tenure-track assistant professorship or associate professorship (in exceptional cases an appointment on a higher level is possible). The Department focuses on two fields of research: astro-particle physics (astronomy/cosmology, computational astrophysics, nuclear and particle physics) and condensed matter (nanosciences, mesoscopic physics, quantum computing, biophysics). More information can be found at www.physik.unibas.ch.

We look for qualified Computational Physicists with broad research activities related to either or both of these fields, who are also interested to participate in the program computational sciences (jointly organized with biology, chemistry, computer sciences, mathematics). Qualified women are especially invited to apply.

Applicants should provide evidence for significant research accomplishments and potential and are expected to take part in teaching activities of the Department of Physics and Astronomy and of the joint Computational Sciences Program. Please submit a curriculum vitae, list of publications, research plan and names of three references until 20 August to: Prof. Andreas Zuberbühler, Dekan der Phil.-Naturw. Fakultät, Klingelbergstrasse 50, CH-4056 Basel, Switzerland.

BASEL

#### CHAIR DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

Applications and nominations are invited for the position of CHAIR of the Department of Biochemistry and Molecular Biology at the University of North Dakota School of Medicine and Health Sciences. We seek an outstanding biomedical scientist with excellent extramural research support who can provide effective leadership and mentoring in research, teaching and service. The Department currently has six faculty members and the new chair will have the opportunity to immediately recruit faculty for two new positions. The Chair will oversee a department actively carrying out research in signal transduction, membrane transporter regulation, drug resistance mechanisms in human pathogens, molecular biology of SV40, enzyme and metabolic regulation, and protein/protein interactions. The Department offers M.S., Ph.D., and M.D./Ph.D. degrees Faculty members participate in traditional graduate education and a new medical school curriculum that emphasizes patientcentered learning. Undergraduate courses are provided to pre-med and allied health students as well as other non-majors. Further information about the Department is available at: http://www.med.und.edu/bimd/biochem.html

The University of North Dakota is committed to doubling its research funding and achieving the Carnegie classification of "Doctoral/Research Universities – Extensive" by 2006. The University is located in Grand Forks and currently enrolls 11,000 students. Grand Forks is a family-friendly community located in a region offering excellent and rapidly expanding cultural, recreational, and sporting activities. To learn more about the University of North Dakota and Grand Forks visit: http://www.und.edu and http://www.grandforksgov.com.

Review of applications will begin immediately, and the search will remain open until the position is filled. Applicants should submit a detailed curriculum vitae that includes a history of research funding, statements addressing administrative philosophy and teaching interests, and the names and addresses of three references to: Dr. Edward C. Carlson, Professor and Chair of the Department of Anatomy and Cell Biology and Chair of the Search Committee, c/o Office of the Dean, School of Medicine and Health Sciences, University of North Dakota, Box 9037, Grand Forks, North Dakota, 58202-9037.

The University of North Dakota is an Equal Opportunity/ Affirmative Action institution

#### Principal Investigators/Assistant, Associate and Full Research Fellows The Preparatory Office of The Institute of BioAgricultural Sciences, Academia Sinica, Taipei, Taiwan

The newly established Preparatory Office of Institute of BioAgricultural Sciences (IBS) at the Academia Sinica is to pursue basic and applied missionoriented research in the bioagricultural sciences that has the potential to lead to new platform technologies or develop into novel systems and products in biotechnology. There are four research areas within our institute: (1) crop plant improvement and plant bioreactors, (2) DNA vaccines, (3) environmental/ industrial enzymes, and (4) Chinese herbal medicine. For more information, please visit our Web site at http://www.sinica.edu.tw/~ibawww/index\_e.html/

We are seeking to appoint two to three qualified applicants to serve as Principal Investigators, ranking from assistant, associate to full research fellows/ professors, in the research areas of (2), (3) and (4) as mentioned above. Applicants must hold a Ph.D. or an equivalent degree in a biological/biomedical science such as Molecular and Cellular Biology, Immunology, Enzymology/ Protein Engineering, Plant Secondary Metabolite, Bio-organic Chemistry, Biotechnology, and Phytomedicine. Principal investigators are required to engage in programmatic projects, serving as project team members and/or as collaborative research scientists. Applicants for the Full Research Fellow must have at least 10 years of research experience with demonstrated abilities in applied and/or basic research in one of the biotechnology areas indicated above, and evidence of creativity and organizational skills. They would greatly benefit from their familiarity with Taiwan's cultural environment and language. Applicants for the Assistant Research Fellow must have appropriate postdoctoral training and good scientific publications. Applicants are expected to conduct in the above selected expertise or discipline of biology. Application should include a cover letter, a research proposal, a complete curriculum vitae as well as the names, e-mail and regular addresses, telephone numbers and fax numbers of 5 references. The closing date for this application is August 30, 2001. Review of applications will begin around October 1, 2001, and will continue until suitable candidates are recruited.

Application should be addressed to: Dr. Kin-Ying To, The Preparatory Office of The Institute of BioAgricultural Sciences, Academia Sinica, Nankang 11529, Taipei, Taiwan, R.O.C.



Advancing Knowledge, Saving Lives

#### ASSOCIATE/ASSISTANT MEMBER BIOMATHEMATICAL MODELER

The Division of Public Health Sciences of the Fred Hutchinson Cancer Research Center invites applications from quantitative scientists engaged in modeling biological processes and assessing the models against data. Areas of interest include, but are not limited to: (1) Carcinogenesis, including tumor growth and evolution; (2) HIV/AIDS, including viral transmission, evolution, and response to vaccination or therapy; (3) Immunology; (4) Genetic regulatory networks. The position will be at the rank of either assistant or associate member (equivalent, respectively, to assistant or associate professor at a university). An established track record is required for a position at the associate member level. An appointment in an appropriate department at the University of Washington may be possible depending on qualifications and interests. The incumbent will be expected to conduct an active program of independent and collaborative research pertinent to the mission of the Center. The Fred Hutchinson Cancer Research Center is a world-renowned research institution with large and active efforts in basic biological sciences, human biology, clinical research, epidemiology, biostatistics and cancer prevention research. Its mission is the elimination of cancer as a cause of human suffering and death. The Center conducts research of the highest standards to improve prevention and treatment of cancer and related diseases.

Please send applications including curriculum vitae, a letter describing research interests, and have four letters of reference sent on behalf of the applicant to:

Suresh H. Moolgavkar, M.D., Ph.D. Division of Public Health Sciences Fred Hutchinson Cancer Research Center 1100 Fairview Avenue North, MP-665 P.O. Box 19024 Seattle, Washington 98109-1024

Closing date for applications: September 15, 2001

The Fred Hutchinson Cancer Research Center and the University of Washington are Equal Opportunity Employers. Both institutions are building culturally diverse faculty and strongly encourage applications from female and minority candidates.



## UNIVERSITY OF SUSSEX

#### The R M Phillips Chair of Medical Research

Applications are invited for the newly established R M Phillips Chair of Medical Research at the University of Sussex with advantageous start-up funding and salary support. We seek an individual with a distinguished international research record in the genetic basis or cell biology of cancer with particular interest in cell proliferation, programmed cell death or gene therapy.

In addition to start-up funding a Hunnisett Postdoctoral Research Fellowship (initially for 3 years) will also be at the disposal of the successful applicant.

The University has recently established and committed considerable resources to a new Centre for Genome Damage and Stability in partnership with the Medical Research Council and in collaboration with the University of Brighton has been awarded a new Medical School. It is envisaged that the successful applicant will work closely with research teams within the Centre and Medical School.

Further particulars of the post are available on request from Professor A L Moore, Deputy Vice-Chancellor, University of Sussex, Sussex House, Falmer, Brighton, East Sussex BN1 9RH, email A.L.Moore@sussex.ac.uk tel (01273) 678224, fax (01273) 678254. Applications, including a full CV, a description of ongoing and planned research and the names and addresses of four referees should be sent to Professor Moore by the closing date of 28 September 2001.

An Equal Opportunity Employer

## **RESEARCH AFFILIATE O**ľ **POSTDOCTORAL RESEARCH** FELLOW

To join an exciting NIH supported laboratory, focusing on gene regulation by chromatin in the immune system. Appointment to Department of Immunology; Start Date - July 1, 2001 (earliest start date). Preferred qualifications: Expertise in molecular techniques: PCR, vector construction and transfection, gel shift, cloning and sequencing procedures, in vitro translation, methylation assays, DNase hypersensitivity, genomic footprinting CHIP assay, etc. Immunological methods such as, animal immunizations, cell culture, ELISA, antigen presentation etc. preferable. Ability to troubleshoot techniques and equipment and maintain a continued knowledge in current scientific papers in the field. Minimum qualifications: Ph.D./ MD with a background in molecular biology. Experience in immu-



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nology desirable. The successful candidate will participate not only in the technical aspects of the research but be involved in the planning. analysis, and interpretation of results with mentoring students, and if appropriate, first author on publications and reports at national scientific meetings.

Please send resume and names of three references to: Thomas B. Tomasi, MD, Ph.D. Roswell Park Cancer Institute. Elm and Carlton Streets, Buffalo, NY 14263; Telephone contact: Dolores Czerwinski, lab administrator at: (716) 845-3078; Fax: (716) 845-8695; E-mail: dolores.czerwinski@roswellpark.org EOE/AA



#### **Respiratory Research Group** Academic Positions

Creating the future of health.

The Respiratory Research Group (RRG) invites applications from outstanding investigators for three full-time academic positions at the Assistant Professor level or higher to develop vigorous independent research programs within a multidisciplinary research environment. While duties include some teaching and graduate student supervision, 75% of time will be protected for research.

RRG consists of 15 principal investigators and their research teams, investigating both basic and clinical aspects of respiratory disease. The group has two focuses, respiratory neurobiology and sleep and obstructive and inflammatory airways disease. The group is currently undergoing a major expansion following a successful external review. RRG has strong interactions with the Alberta Asthma Centre in Edmonton and the Alberta Lung Association Sleep Disorder Centre in Calgary. The Faculty is supporting the establishment of an endowment to support a research chair. Existing strengths of RRG include adult and paediatric respirology, asthma, sleep disorders, control of breathing, occupational and interstitial lung diseases and perinatal respiratory disorders. The group wishes to expand its expertise to include the basic cellular biology of these diseases.

The Faculty of Medicine is in the process of building a major new research facility. Calgary is a vibrant, multicultural city (population ~850,000) near the Rocky Mountains, Banff National Park and Lake Louise.

#### **RRG** invites applications for the following positions:

Translational Research in Airway Diseases - The successful applicant will be a physician with a primary interest in the molecular pathogenesis of asthma and/or COPD. The ideal candidate will have a strong interest in basic disease mechanisms and in the evaluation of the relevance of basic scientific observations to diseases in humans in vivo. The successful applicant will serve an important complementary link between basic and clinical researchers working in lung diseases.

Molecular Pathogenesis of Asthma - The successful applicant will have a background in cellular and molecular biology, and a primary interest in the inflammatory mechanisms underlying asthma and/or COPD. Expertise in epithelial cell biology will be considered an asset.

Molecular Biology of the Lung - The successful applicant must have a primary interest and expertise in developmental molecular biology. The ideal candidate would be expected to have substantial interest in neonatal-perinatal physiology and medicine. A demonstrated interest in the role of growth factors in organogenesis would be an asset. The position provides an outstanding opportunity to institute an independent research program as well as to collaborate with the established investigators in development biology and perinatal physiology.

Qualifications for all positions include a PhD and/or MD, at least two years of postdoctoral experience and an established record of publications and expertise in the chosen area of research. Eligibility for licensure in the Province of Alberta is also required if the selected individual will be providing patient care.

Salary support and establishment funding are available through successful application to the Alberta Heritage Foundation for Medical Research and/or the Canadian Institutes of Health Research; we anticipate generous start-up funds will be available to qualified candidates.

Please submit a curriculum vitae and a statement of research interests and arrange to have three letters of reference sent directly, by August 10, 2001, to:

www.ucalgary.ca

Dr. David Proud, Professor Department of Physiology & Biophysics Faculty of Medicine 3330 Hospital Drive N.W. Calgary, Alberta, Canada T2N 4N1

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary respects, appreciates and encourages diversity.

#### POSITIONS OPEN

#### FACULTY POSITION PHYSICAL OCEANOGRAPHY Scripps Institution of Oceanography University of California, San Diego

Scripps Institution of Oceanography invites applications for an ASSISTANT, ASSOCIATE, or FULL PROFESSOR (tenure-track or tenured) faculty position in physical oceanography. The successful candidate will be an observationalist studying processes pertinent to large-scale ocean circulation. Candidates involved in the design and use of modern techniques of observing the ocean are especially encouraged to apply. Physical Oceanographers interested in problems straddling the traditional disciplinary boundaries (for example, with biology, chemistry, or atmospheric sciences) will be given high priority.

Rank and salary will be commensurate with qualifications and experience based on the University of California pay scale. Candidates must have a Ph.D. or equivalent degree. The position will involve teaching and the supervision and support of graduate students and the development of research programs supported by extramural funds. Associate and Full Professorial candidates must show evidence of a strong research record; Assistant-level candidates will be expected to show evidence of their potential through a publication record appropriate to their experience. Applications received by September 30, 2001, will receive full consideration. Send letter of application including desemption of research interests, list of publications, résumé of teaching experience, and names/addresses of three references to:

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

UCSD is an Equal Opportunity/Affirmative Action Employer.

#### **BIOCHEMISTRY POSITION**

The Department of Chemistry and Biochemistry seeks an individual capable of establishing a nationally recognized, externally funded research program. The full-time faculty position is open for an ASSISTANT PROFESSOR (tenure track) in biochemistry with a research focus on the structure and function of biomolecules. Preference will be given to applicants with a research focus in cancer, infectious disease, or neuroscience and/or the application of mass spectrometry-based proteomics to these areas. Additional details on this position, department, and research resources can be viewed at website: http://www.chemistry. nmsu.edu/BioChemPosition. The successful candidate will participate in graduate and undergraduate teaching of biochemistry. Applicants must have a Ph.D. and two years of postdoctoral experience. Applicants should submit curriculum vitae, a description of proposed research, teaching statement, representative reprints, unofficial copy of undergraduate and graduate degree transcripts, and three letters of reference to: Dr. Colleen B. Jonsson, Search Committee Chair, Department of Chemistry and Biochemistry, MSC 3C, New Mexico State University, La Cruces, NM 88003. Review of applications will begin August 20, 2001, and continue until the position is filled. New Mexico State University is an Equal . Opportunity∴Affirmative Action Employer.

**POSTDOCTORAL POSITION** available to study the transcriptional deregulation of the c-myc oncogene in Burkitt lymphoma. The studies are in collaboration with research groups at the Fred Hutchinson Cancer Research Center and at the Institute for Systems Biology. Position is open until filled. Send applications (curriculum vitae, past research experience, and references) to: Anton Krumm, Ph.D., VA Medical Center/University of Washington, R151, 1660 South Columbian Way, Seattle, WA 98108. E-mail: akrumm@u.washington.edu.

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

#### POSITIONS OPEN



The Agricultural Research Service, Plant Sciences Institute, Bee Research Laboratory, in Beltsville, seeking a MICROBIOLOGIST. Maryland, is GS-403-12/13. Salary is commensurate with expe rience (\$53,156 to \$82,180 per annum) plus benefits. Candidates must be U.S. citizens. Incumbent will plan and conduct research on the epidemiology and control of bacterial and/or viral diseases of honeybees. Objectives are to (1) characterize bacterial strains of foulbrood and determine factors related to pathogenicity, (2) investigate the pathogenicity of honeybee viruses and their mode of transmission as a means of estimating economic importance, and (3) examine the immunological responses of honeybees to microbial pathogens. For research information, contact: Dr. Mark F. Feldlaufer; Telephone: 301-504-8637

Candidates must request a copy of Vacancy Announcement ARS-X1E-1400 by either calling Telephone: 301-504-1482 or via website: http://www. ars.usda.gov in order to address specific information outlined in the Vacancy Announcement. Applications must be postmarked by July 30, 2001. USDA/ARS is an Equal Opportunity Provider and Employer.

ASSISTANT/ASSOCIATE PROFESSORS in pathology, University of Pittsburgh. Tenure-track positions available for Investigators with strong basic research programs and/or potential. Candidates are expected to develop and sustain a funded research program while contributing to the service and teaching (graduate, resident, and Fellow) missions of the Section of Laboratory Medicine in the Department of Pathology. The research endeavors will be the primary focus accounting for approximately 75% of effort. Candidates with programs in areas that complement the current Departmental Faculty are strongly encouraged to apply, but all areas of investigation will be fully considered. Current research activities center around the broad area of molecular cell biology, phys iology, and pathology; please see website: http://path.upmc.edu/CMP/faculty.htm. Opportunities for service contributions are possible in clinical chemistry, microbiology, and general laboratory medicine. Mail curriculum vitae and description of research program to: Alan Wells, M.D., D.M.S., Vice Chair for Laboratory Medicine, Department of Pathology, 5929 Main Tower, 200 Lothrop Street, Pittsburgh, PA 15213. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer

#### RESEARCH MANAGER, GENOMICS Hubbard Center for Genome Studies

We seek to hire a Ph.D. Research Scientist to supervise the day-to-day operation of the Genome Center at the University of New Hampshire. This person should have a reservoir of technical expertise in molecular biology and construction of DNA clone libraries and be able to help implement new technologies (e.g., microarrays) as the center builds its capabilities. This individual is expected to work closely with UNH faculty and students conducting research in the Center and will ultimately supervise several technicians. The individual will also help develop new areas of research as the center grows.

Review of applications will begin August 1, 2001. Send curriculum vitae and contact information for three references to:

> Thomas D. Kocher, Director Hubbard Center for Genome Studies Fourth Floor Environmental Technology Building 35 Colovos Road Durham, NH 03824-3534

UNH is committed to excellence through the diversity of its staff and encourages women and minorities to apply.

#### POSITIONS OPEN

#### ASSISTANT/ASSOCIATE PROFESSOR DEPARTMENT OF PHARMACOLOGY University of Florida Shands Cancer Center

The Department of Pharmacology and Therapeutics in conjunction with the University of Florida Shands Cancer Center (UFSCC) invites applications for a tenure-track position for individuals having a Ph.D. and/or M.D. degree. The successful candidate at the Assistant Professor level will be expected to develop an independent but interactive research program; at the Associate Professor level, candidates should have an established program. The individual will contribute to a new interdisciplinary program in therapeutic targeting and drug development. A major long-range goal of this program is the identification of molecular targets for the development of novel anticancer drugs. Preference will be given to candidates with research programs that interface bioorganic chemistry with cancer biology. Individuals with plans to use genetic and proteomic approaches to identify and validate novel pharmacologic targets in cancer are also encouraged to apply. A commitment to the education of professional and graduate students will also be expected. The position offers a competitive salary, excellent research facilities, and a generous start-up package. Additional information about the Depart ment and UFSCC is available at websites: http:// www.med.ufl.edu/pharm and http://www. ufscc.ufl.edu. Applicants should send their curriculum vitae, a description of research interests, and three letters of recommendation to: Chair, Faculty Search Committee, Department of Pharmacology and Therapeutics, Box 100267, University of Florida College of Medicine, Gainsville, FL 32610-0267 Application deadline is August 31, 2001, with start date on or after December 14, 2001. The University of Florida is an Equal Opportunity Employer and minorities and women are encouraged to apply.

#### SPECIALIST Michigan State University DNA Sequencing and Microarray Facility

Ph.D. in the biological sciences with four to five years of experience with automated DNA sequencing, analysis and assembly of large DNA sequencing projects, and/or the production and analysis of microarrays including the preparation of custom cDNA and/or oligonucleotide microarrays. Should also have expertise in the computer analysis of sequence and/or microarray data. This position requires good communication skills to interact with faculty and other clients to identify their level of understanding of the technology and to advise for appropriate experimental strategies. Specialist may submit grants either individually or in collaboration with other faculty to support research projects complementary to the goals of the Genomic Technology Service Facility. Applications due August 15, 2001. Send curriculum vitae and three letters of support to: David DeWitt, 519 Biochemistry Building, Michigan State University, East Lansing, MI 48824. E-mail: dewittd@ msu.edu. MSU is an Affirmative Action/Equal Opportunity Institution.

#### STAFF SCIENTIST

A Molecular Biologist (Ph.D.) with less than three years of experience constructing recombinant adenoviral vectors to join a growing biotechnology firm pursuing lung and vascular gene therapies in the Chicago area. This individual must be intellectually independent, highly motivated, and have strong communication and leadership skills. Prior experience with endothelial cell biology or coagulation is a plus. This position is based on the campus of a universityaffiliated teaching hospital, and faculty appointments are available for qualified individuals. Salary commensurate with professional experience and prior salary history. A cover letter with curriculum vitae and three references can be sent to: Dr. P. Factor, 726 Brookvale Terrace, Glencoe, IL 60022. E-mail: pfactor@northwestern.edu.

#### **HIV Drug Resistance Program**

## Senior Research Fellow and Postdoctoral Fellows

Senior Research Fellow and Postdoctoral Fellow positions are available immediately in a research program focused on understanding the replication of human immunodeficiency virus and other retroviruses. Research projects encompass a broad area of retroviral replication and pathogenesis; specific ongoing projects include mechanisms of viral drug resistance, development of new anti-HIV drugs, mechanisms of reverse transcription, reverse transcriptase fidelity and recombination, and viral RNA dimerization.

Applicants must have a strong background in molecular biology, biochemistry and/or virology. Applicants to the Senior Research Fellow position must have relevant prior postdoctoral experience (salary range: \$53K–\$69K). The salary range for postdoctoral positions is \$32K–\$51.8K, commensurate with experience. To apply, submit a cover letter, curriculum vitae, bibliography, and names of three references to:

Dr. Vinay K. Pathak HIV Drug Resistance Program NCI-Frederick, P.O. Box B Frederick, MD 21702 Fax: 301-846-6013, E-mail: vpathak@ncifcrf.gov Website: www.ncifcrf.gov/hivdrp/Pathak.html



Equal Opportunity Employer



Postdoctoral positions are available for NCI and NIDDK supported projects focused on understanding the roles of the transcriptional coactivators CBP and p300 in normal and malignant cells (*MCB* 19:5601; *MCB* 19:764; *MCB* 18:2218). Projects will emphasize the use of knock-in and conditional-knockout mouse models to study the functions of coactivators in vivo and in mutant cells in vitro. **This is an outstanding opportunity to make rapid progress in an important research area as several lines of unique mutant mice are in hand, awaiting analysis.** The Department of Biochemistry specializes in the generation and analysis of mutant mice, with a focus on the molecular and cellular biology of signal transduction, hematopoietic development, and cancer (http://www.stjude.org/newhp/biochemistry.html). Candidates should have experience in molecular biology, immunology, or biochemistry. Previous experience with transgenic animals would be advantageous. Please send a C.V., a statement of research interests, and the names of three references to:

> Paul Brindle Department of Biochemistry St. Jude Children's Research Hospital 332 N. Lauderdale • Memphis, TN 38105 E-mail: paul.brindle@stjude.org

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Pharmaceutical

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GlaxoSmithKline's global Discovery Research Biology group is undergoing an exciting expansion. With a fresh approach to marrying genes and chemistry, GlaxoSmithKline creates a small molecule ligand for every potential drug target. Our goal? To select the right target, with the ability to alleviate target associated risk pre-clinically. Translating advantages to tangible outcomes, this new model offers Scientists the occasion to participate in one of the most exciting events taking place in our industry today.

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You will direct Ph.D. and Associate Scientists who purify and characterize biologically active proteins from various sources. As part of interdisciplinary teams, you will develop and optimize purification procedures to provide high quality proteins, employing state-of-the art techniques such as HPLC, AKTA, FPLC, SDS-PAGE, western blot, LC-MS, UV/Vis, fluorescence spectroscopy, IEF and DLS. The analysis and interpretation of resulting data will be needed, as you prepare research reports and write/contribute to patents and publishable manuscripts. A Ph.D. in Chemistry, Biochemistry, Protein Biochemistry or a related area is essential, as is 10 years of related experience and a supervisory background. Experience with a matrix organization is preferred.

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#### POSITIONS OPEN

#### LANDSCAPE ECOLOGIST AND AQUATIC ENVIRONMENTAL BIOLOGIST

As continuation of planned expansion of Department of Biology of Case Western Reserve University, the Department invites applications for an appointment of one or two Ecologists at the **ASSISTANT PROFESSOR** level. Candidates for these positions should have interests in landscape ecology or the environmental biology (e.g., physiology, behavior, or endocrinology) of aquatic organisms. Applicants will be expected to have both experimental and quantitative skills and have an interest in intergrative biology. Successful candidates will also be expected to lead a strong, independent, extramurally funded research program as well as develop and teach courses at the undergraduate and graduate level.

Applicants should send letter that describes their research and teaching interests, current curriculum vitae, and have three letters of recommendation send directly to:

#### Joseph F. Koonce, Chair Department of Biology Case Western Reserve University 10900 Euclid Avenue Cleveland, OH 44106-7047

To receive full consideration, applications should be submitted by September 30, 2001. The search will continue until the positions are filled.

In Employment as in Education, CWRU is committed to Affirmative Actiion and Equal Opportunity. Applications from women and minority candidates are especially welcome.

#### TENURED/TENURE-TRACK INVESTIGATOR Laboratory of Clinical Investigation National Institute of Allergy and Infectious Diseases

The Laboratory of Clinical Investigation (LCI) has an opportunity for a tenured or tenure-track Investigator to conduct studies that complement the existing research interests of the laboratory, specifically the immunology of autoimmune/inflammatory conditions and/or the pathogenesis of chronic infections. For more information about LCI and NIAID Intramural programs, see **website**: http://www.niaid. nih.gov/dir. An ideal candidate will have well-developed clinical interests and will initiate patientoriented research studies leading to the improved understanding and/or novel therapies of diseases in the field of interest. Candidates must be U.S. trainees or ECFMG/USMLE-certified physicians with specialty training. Salary will be dependent upon qualifications. Other incentives may be available. Curriculum vitae: bibliography; three letters of reference; a detailed statement of research interests; and selected publications must be submitted by July 1, 2001, to: Ms. Joann Martin, Office of Human Resources Management, NIAID, Building 31, Room 7A27, 31 Center Drive, MSC 2520, Bethesda, MD 20892-2520. All information provided by the applicants will remain confidential and will be viewed only by authorized officials of the NIAID.

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#### RESEARCH FISHERY BIOLOGIST OR ECOLOGIST

The National Marine Fisheries Service is seeking applicants for a **PERMANENT POSITION** at our Santa Cruz laboratory, Santa Cruz, California, studying estuarine and ocean ecology of Pacific salmon. The incumbent serves as a Principal Investigator conducting research on the influences of environmental variables on salmon physiology and ecology to address endangered species and fishery management issues. Applicants must be U.S. citizens, have a Ph.D. or equivalent education and experience, and have a strong record of research and publication. Salary range: \$56,411 to \$73,330. To apply, see website: http://www.usajobs.opm.gov (Announcement W/NMF/SWC/010378.RJ) or Telephone: 206-526-6407 for more information. Closes July 24, 2001. Equal Opportunity Employer.

#### POSITIONS OPEN

#### DIRECTOR Division of Laboratory Animal Medicine Department of Pathology and Laboratory Medicine The University of North Carolina at Chapel Hill

The School of Medicine at the University of North Carolina at Chapel Hill is searching for a Director of the Division of Laboratory Animal Medicine. The position provides professional direction for the use of animals in research and educational programs within the University, administering the University program for laboratory animal care and housing, and participation in educational and research programs. Selection of an individual will be based on demonstrated leadership and administrative abilities with a known suc cessful record of laboratory animal medicine experience, preferably in an academic institution. Individuals should have knowledge of and experience with local, state, and federal requirements for programs for laboratory animal care and housing and should have knowledge of and experience with the Department of Agriculture and AAALAC requirements and standards for accreditation of laboratory animal programs.

Candidates must have a Doctor of Veterinary Medicine degree from an AVMA-accredited school or college and be certified by the board of ACLAM or equivalent boards.

Consideration of candidates will begin immediately and will continue until the search is successfully concluded. Applicants should submit current curriculum vitae and the names and addresses of four references to:

#### Jeffrey A. Frelinger, Ph.D. Chair, Director, DLAM Search Committee c/o Office of the Dean, School of Medicine CB Number 7000 243 MacNider Hall The University of North Carolina at Chapel Hill

Chapel Hill, NC 27599-7000 Attention: Jane Teeter

Successful candidate will also qualify for a faculty appointment. Rank and salary will be commensurate with experience.

The University is an Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

#### ASSOCIATE PROGRAM DIRECTOR GENERAL CLINICAL RESEARCH CENTER (GCRC)

The Children's Hospital Medical Center (CHMC) and University of Cincinnati (UC) are recruiting a new position of Associate Program Director to direct a newly developed satellite unit of the NIH-funded GCRC to be located at the Cincinnati, Ohio, VA Medical Center. The VA Satellite GCRC, which will focus on studies in veterans and nonveteran adults with complex medical problems, is a state-of-the-art facility that will support outpatient and inpatient projects such as invasive cardiovascular or pharmacokinetic studies. The position of Associate Program Director offers an exciting opportunity for an Investigator to develop a new research enterprise, train young Investigators, and interact with ongoing research activities at the VA, UC, and CHMC. The position carries a generous salary, benefits, and startup funds; eligibility to apply for VA research funds; and a UC faculty appointment in the appropriate clinical department at a level consistent with the person's accomplishments. Qualifications for the Associate Program Director position include the presence of an NIH-funded research project involving adult human subjects; experience in directing or using a GCRC or similar facility; and good administrative, communication, and interpersonal skills. Send curriculum vitae and names of three references to: Peter D. Walzer, M.D., ACOS for Research (151), VA Medical Center, 3200 Vine Street, Cincinnati, OH 45220. Telephone: 513-475-6328; FAX: 513-475-6415; e-mail: Peter.Walzer@Med.VA.Gov. VA and UC are Equal Opportunity Employers.

#### POSITIONS OPEN

FACULTY POSITION New York University School of Medicine Department of Microbiology

The Department of Microbiology is seeking candidates for tenure-track faculty positions at the ASSIST-ANT, ASSOCIATE, or FULL PROFESSOR level. While qualified applicants in a variety of microbiology disciplines will be considered, applicants in the fields of prokaryotic molecular biology, microbial pathogenesis, viral-host cell interactions, and viral persistence are particularly encouraged to apply. Our department represents a range of research strengths including mechanisms of viral and bacterial pathogenesis, host cell defense mechanisms, microbial and molecular genetics, oncogenesis, signal transduction by growth factors and cytokines, and regulation of gene expression at the transcriptional and translational level. Recruitment is part of a schoolwide plan for development of an infectious diseases program that will complement our existing strengths in these areas. Applications should include curriculum vitae, a statement of research interests, reprints and preprints, and three letters of reference to be forwarded separately. Send applications to: Department of Microbiology Search Committee, Attention: Dr. Robert J. Schneider, New York University School of Medicine, 550 First Avenue, New York, NY 10016. Telephone: 212-263-5324. Application deadline: September 1, 2001.

Newe York University School of Medicine is an Affirmative Action/Equal Opportunity Employer.

#### POSTDOCTORAL POSITIONS

Three Postdoctoral positions for (1) structural NMR of fatty acid-binding proteins, (2) fluorescence imaging of fatty acid uptake into cells, and (3) magic angle spinning and MR imaging of atheroselerotic plaques. Immediate openings with appropriate experience required. Send curriculum vitae and letters of recommendation to: Dr. James A. Hamilton, Boston University School of Medicine, Physiology and Biophysics, W302, 715 Albany Street, Boston, MA 02118. E-mail: hamilton@med-biophd. bu.edu. Visit website: http://www.bumc.bu.edu/ Departments for current research information. Boston University is an Affirmative Action/Liqual Opportunity Employer.

ASSISTANT or ASSOCIATE RESEARCH SCIENTIST position available at The University of Michigan Health System, Department of Internal Medicine, to study molecular mechanisms of growth regulation and metastatic spread of human breast cancer in cell culture and xenograft systems. Skills in cellular and molecular biology are essential. Ability to work independently and communicate effectively is required. Experience with gene arrays desirable. U.S. citizens and resident aliens only. Send curriculum vitae and letters of reference to: Marc E. Lippman, M.D., John G. Searle Professor and Chair, Department of Internal Medicine, 3100A Taubman Center, The University of Michigan Health System, 1500 East Medical Center Drive, Ann Arbor, MÍ 48109-0368.

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

POSTDOCTORAL POSITION available for studying signaling pathways mediated by mammalian Rho family GTPases. Projects include studying the roles for the GTPases and their target proteins in oncogenic transformation, regulation of cell shape, or in neuronal development. A strong background in molecular or cellular biology is preferred. Send application to: Audrey Minden, Associate Professor, Department of Biological Sciences, Columbia University, Mail Code 2460, 1212 Amsterdam Avenue, New York, NY 10027. E-mail: agm24@columbia.edu. Columbia University is an Equal Opportunity/Affirmative Action Employer.



## EMBL

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

#### CURATOR (ref. 01/91) GENE ONTOLOGY PROJECT

The Gene Ontology project is a collaborative effort to provide controlled vocabularies that can be used for the description of the molecular function, biological process and cellular component of gene products in a wide variety of organisms. We are seeking a curator to work with the Swiss-Prot team on annotation of gene products using GO vocabulary terms. The curator will also work with the GO Editor at EBI to revise the vocabularies as needed, and to define existing GO terms. The successful applicant will probably have a PhD degree in biology and will have studied one of the major model experimental organisms. Experience with computing is not required. Further information can be obtained from Michael Ashburner or Midori Harris (ashburner@ebi.ac.uk, midori@ebi.ac.uk).

Closing Date: 31.07.2001

http://www.embl-heidelberg.de/ and http://www.ebi.ac.uk/

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

To apply please send your CV, quoting ref. no. 01/91, to:

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

## National Institute for Medical Research Post Doctoral position in Molecular Immunology

Applications are invited for a three year postdoctoral position in the Division of Molecular Immunology to work on the role of chromatin remodelling in the regulation of the CD8 gene locus expression. Experience in molecular biology techniques (RNA, DNA manipulation, cloning etc) is advantageous. The laboratory has expertise in a variety of gene regulation model systems (see Immunity, 1997, <u>7</u>, 525-536; Immunity, 1998, <u>9</u>, 497-508; Nature Genetics, 1999, <u>23</u>, 457-461; EMBOJ, 1999, <u>18</u>, 6356-6405).

Informal enquiries may be made to: Dr Dimitris Kioussis by telephone: +44 (0) 20 8959 3666, ext. 2194; or e-mail: dkiouss@nimr.mrc.ac.uk.

The Institute provides excellent facilities and training for researchers in a multi-disciplinary environment.

Salary for this MRC funded post is from £21,800 to £33,000 per annum (inclusive of Scientist Supplement and £1,194 Location Allowance). Membership of the MRC Pension Scheme is available.

Formal applications, which should include a full CV and the names and addresses of two professional referees, should be sent to Mark Franklin, Personnel Manager, National Institute for Medical Research, The Ridgeway, Mill Hill, London NW7 1AA, not later than 3rd August 2001 quoting reference number IMI/DK/PD.

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## Washington University in St. Louis

#### **Tenure-track Faculty Positions in Computational Biology**

#### Washington University **Department of Genetics** and

#### **Center for Computational Biology**

The Washington University Department of Genetics and the Center for Computational Biology invite applications for tenure-track faculty positions in the general area of computational biology. Outstanding candidates at any level (assistant, associate, or full professor) will be considered. We are seeking individuals who would complement the University's existing strengths in computational genome analysis and further enhance our highly interdisciplinary research environment, which includes colleagues in the Departments of Computer Science, Biomedical Engineering, and Biochemistry & Molecular Biophysics, and the Washington University Genome Sequencing Center.

Candidates should send a curriculum vitae, statement of research plans, relevant reprints, and names of three references by October 1, 2001 to

> Sean R. Eddy Chair, Faculty Search Committee **Department** of Genetics Washington University School of Medicine 660 South Euclid, Box 8232 Saint Louis, Missouri 63110 eddy@genetics.wustl.edu

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A new position has been created in the Medical Faculty and the Faculty of Economics for a

#### **Professor of Medical Informatics**

We are seeking a person who is highly competent in research and teaching in Medical Informatics and who is willing to work in close collaboration with the CIO of the University Hospital.

The appointed person will be expected to teach undergraduate students in the medical and other faculties and to organise post-graduate training courses in Basic Medical Informatics for MD's and non-academic medical staff.

The primary field of research will be in subjects closely related to clinical problems (Medical decision support systems and integration in Clinical Informatic Systems, E-Health and others). Other research activities can be in the fields of interest of the appointed person. The successful candidate will be required to collaborate closely with the Departement of Informatics and to act as informatics consultant within the University Hospital.

The position will be located within the University Hospital of Zürich.

Written applications should be addressed to the Dean's Office (Dekanat der Medizinischen Fakultät der Universität Zürich, Berufungskoordination, Gloriastr. 18, CH-8091 Zürich). Further information can be obtained from the president of the Appointement Committee Prof. Urs M. Lütolf, Departement Medizinische Radiologie, Rämistr. 100, 8091 Zürich (Tel: +41-1-255 29 30). Closing date for applications: 1st August 2001

The written applications should contain the details specified in "Merkblatt über Berufungsverfahren". This document can be obtained from the Dean's Office or from the internet.

#### HEAD OF BIOLOGY

A pioneer in the field of proteomic-enabled drug discovery, MDS Proteomics' goal is to significantly A pioneer in the field of proteomic-enabled drug discovery, **MDS Proteomics'** goal is to significantly improve the productivity of the pharmaceutical industry in discovering and developing new medicines for the treatment of disease. The company has developed exceptional capabilities in proteomics systems, technology, supercomputing, drug screening and biology and is uniquely positioned to build an effective bridge between gene discovery and therapeutic development. This distinctive capability is being used in collaborations with pharmaceutical and biotechnology companies as well as for the development of the company's own product pipeline. In its proteomics "facilities" in Europe and North America, the company focuses on drug target discovery and validation for both antibody and small molecule therapeutics. **MDS Proteomics** is a majority-owned subsidiary of MDS Inc. majority-owned subsidiary of MDS Inc.

As the Head of Biology for **MDS Proteomics**, you will be responsible for the coordination of research programs and innovative approaches to therapeutic target discovery. You will provide leadership for talented interdisciplinary teams of scientists with skills in cell and molecular biology, protein chemistry, mass spectrometry, and bioinformatics. Your efforts to define human biology by application of our most advanced proteomic platform will be realized in the discovery of new drug and artiched target. and antibody targets

#### Location

Appointments are available at the level of Vice-President at both our North American (Toronto) and European (Odense) locations. Additional positions are available as described at our web site www.mdsproteomics.com.

#### Requirements

Qualified candidates will have earned a PhD and/or MD, and possess a strong background in one or more of oncology, metabolic disease, signal transduction and cell biology. Applicants will have at least ten (10) years post-doctoral experience, during which time they will have distinguished themselves with a track record of peer-reviewed publications as evidence for their scientific innovation and industry. Success in project management and pre-clinical development in a biotech or pharma setting is escantial. or pharma setting is essential.

We offer a competitive compensation and benefits package, and the promise of a stimulating scientific and collegial environment. For consideration, please forward your resume and cover letter stating "Head of Biology" to: MDS Proteomics, Attn : HR/MM, 75 International Blvd., Toronto, ON., Canada M9W 6L6; Email: <u>hr@mdsproteomics.com</u>; or Fax : (416)213-4199.



#### POSITIONS OPEN

#### POSTDOCTORAL POSITION Systems and Molecular Neurobiology

Postdoctoral position available immediately for studies of the molecular mechanisms of apoptosis/ programmed cell death in animal models of Alzheimer's disease. We emphasize a well-characterized in vivo model of transsynaptic apoptosis. Projects include animal surgeries, tissue preparation, laser-guided cell capture, and immunological and molecular methods of identifying genes in the cell death cascade as well as DNA profiling/microarray methodologies for the identification of novel/unconventional genes. Applicants should have a Ph.D. or M.D. and published experience in cellular and molecular neuroscience. Send letter of interest, curriculum vitae, and at least two academic references to: Vassilis E. Koliatsos, M.D., Neuropathology Division, Johns Hopkins Medical Institutions, Ross Building, Ross 558, 720 Rutland Avenue, Baltimore, MD 21205. Email: koliat@jhmi.edu.

ASSISTANT PROFESSOR of environmental health. Academic-year appointment; tenure track, spring 2002. Minimum qualifications include a Ph.D in chemistry, environmental chemistry, environmental health, or environmental engineering. Postdoctoral experience is preferred. Must be able to teach courses in hazardous materials and environmental chemistry. The successful candidate will demonstrate evidence of the ability to interface with a multidisciplinary faculty with a broad range of interests. Candidate will demonstrate evidence of the ability to develop a funded research program in area of expertise that involves grad uate (Master's) and undergraduate students. Applicants should send current curriculum vitae, names, addresses, and telephone numbers of at least three references to: Dr. Phillip Scheuerman, Chair, Department of Environmental Health, College of Public and Allied Health, East Tennessee State University, Box 70682, Johnson City, TN 37614. Review of candidates will begin September 17, 2001, and continue until a suitable candidate is found. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR of environmental health. Academic-year appointment; tenure track, spring 2002. Minimum qualifications include a Ph.D. in industrial hygiene, occupational health, environmental health, or environmental engineering. Postdoctoral experience is preferred. Must be able to teach courses in occupational health, industrial hygiene, and safety. The successful candidate will demonstrate the ability to interface with a multidisciplinary faculty with a broad range of interests. Must demonstrate the ability to establish a funded research program in area of expertise that involves graduate (Master's) and undergraduate students. Applicants should send current curriculum vitae, names, addresses, and telephone numbers of at least three references to: **Dr. Phillip** Scheuerman, Chair, Department of Environmental Health, College of Public and Allied Health, East Tennessee State University, Box 70682, Johnson City, TN 37614. Review of candidates will begin September 17, 2001, and continue until a suitable candidate is found. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ENTOMOLOGIST. The U.S. Department of Agriculture, Agricultural Research Service, National Center for Agricultural Utilization Research, Peoria, Illinois, seeks a Research Entomologist GS-12/13 (\$51,927 to \$80,279 per annum; salary commensurate with experience). The incumbent is to conduct research on the formulation of biological pest control agents to enhance effectiveness and stability. Applicants must have a Ph.D. directly related to entomology or related discipline of the biological or physical sciences and/or professional research experience. Comprehensive benefits package includes paid annual and sick leave, life/health insurance, and a savings and investment plan in addition to federal retirement plan. U. S. citizenship is required. For further information, visit the ARS vacancy website: http://www.ars.usda. gov; Announcement Number ARS-X1W-1411 or Telephone: 309-681-6478. The USDA/ARS is an Equal Opportunity Provider and Employer.

#### POSITIONS OPEN

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#### RESEARCH FELLOWSHIP

A **POSTDOCTORAL RESEARCH POSI-TION** is available immediately in the laboratory of Pediatric Tumor Biology at the National Cancer Institute. The focus of the Laboratory is the investigation of apoptosis signaling pathways in solid pediatric tumors. Candidates should have a Ph.D. in molecular biology, cell biology, or related discipline or an M.D. with postdoctoral research experience in molecular/ cell biology. Demonstrated ability to prepare and present data in the form of publications is also required. The position is located on the NIH campus in Bethesda, Maryland. Interested candidates should submit curriculum vitae and arrange to have letters from three references sent or FAXED to:

> Maria Tsokos, M.D. Laboratory of Pathology NIH, Building 10, Room 2A–10 Bethesda, MD 20892 Telephone: 301-496-3159 FAX: 301-480-9197 E-mail: mtsokos@mail.nih.gov

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#### POSTDOCTORAL FELLOWSHIPS Genomic Enzymology

The Albert Einstein College of Medicine is initiating a Functional Genomics program whose mission is to characterize the functions of the thousands of proteins whose structures will emerge from the structural genomics initiatives over the ensuing decade. This is a unique opportunity to merge enzymology and genomic science. Candidates must have a strong structure/function background and the ability and vision needed to help create such a program. The structures are many, and the opportunities are great; you will be extremely well positioned for a productive career in science. Please e-mail your curriculum vitae and three letters of recommendation to: **Professor Thomas S. Leyh; e-mail: leyh@aecom.yu.edu**. *Equal Opportunity Employer*.

#### POSTDOCTORAL RESEARCH POSITION

We are seeking a trained M. D. or Ph.D. interested in studying the immune regulatory properties of a novel costimulatory molecule and its ligands in autoimmune diabetes. Transgenic and knockout murine models will be used. Experience in basic immunologic techniques, molecular and cell biology, and animal studies is required. Please send curriculum vitae and names and addresses of three references to: **Kevan Herold, M.D., Columbia University, 1150 St. Nicholas Avenue, New York, NY 10032**. Columbia University is an Affirmative Action/Equal Opportunity Employer.

#### POSTDOCTORAL POSITIONS Harvard / Brigham and Women's Hospital

Immediate openings to study folding, assembly, structure, and biological activity of amyloid  $\beta$ -protein and other amyloidogenic proteins. Expertise in structural biology, protein folding, protein chemistry, chemistry, biophysics, biochemistry, or cell biology desirable. Send curriculum vitae, *ditzenship status*, research interests, and contact information for three references to: Dr. David B. Teplow, Brigham and Women's Hospital, 77 Avenue Louis Pasteur (HIM-756), Boston, MA 02115. FAX: 617-525-5252; e-mail: dteplow@rics.bwh.harvard. edu.

#### POSITIONS OPEN

#### CANADA RESEARCH CHAIR IN INFECTIOUS DISEASES

The Department of Biochemistry and Microbiology at the University of Victoria invites applications from outstanding individuals to be nominated for a 'Tier Two" Canada Research Chair in Infectious Diseases. The successful candidate will be an exceptional Scientist at an early career stage who is studying the molecular basis of microbial pathogenesis. The Department has a particular interest in recruiting an individual who intends to use postgenomics approaches in their research. The Department houses a large-scale fermentation facility, DNA synthesis and analysis equipment, and a newly established proteomics facility that includes MALDI-TOF and Q-TOF mass spectrometers to support such research. The successful candidate will be provided with a tenured or tenure-track appointment as appropriate and will join a strong research group with complementary interests in microbial pathogenesis. Although this is primarily a research position, the candidate will be expected to carry a reduced teaching load. He or she may also participate in the Genome Canada initiative and can expect support from the university for application to the Canada Foundation for Innovation for infrastructure support. It is anticipated that the successful candidate will obtain his or her major funding from the Natural Sciences and Engineering Research Council of Canada and the Canadian Institutes for Health Research. Applicants should submit curriculum vitae and a statement of research interests and plans and should arrange for four letters of recommendation to be sent to:

#### E.E. Ishiguro, Chair Department of Biochemistry and Microbiology University of Victoria P.O. Box 3055, STN CSC Victoria, BC V8W 3P6 Canada

Review of applications will begin October 1, 2001, and will continue until the position has been filled. Information about the university, the Faculty of Science, and the Department of Biochemistry and Microbiology can be found at website: http://www. uvic.ca/. Information about the Canada Research Chairs Program is available at website: http:// www.chairs.gc.ca/english/new/index.html. The University of Victoria is situated in one of the most beautiful natural settings in the world and has easy access to Vancouver, British Columbia, and Seattle, Washington. The University of Victoria is an Equity Employer and encourages applications from vomen, persons with disabilities, visible minorities, and aborginal peoples. Applications are invited without regard to nationality or location.

**POSTDOCTORATE** needed for interdisciplinary project developing immunoassays for human exposure assessment. Involves synthesis of haptens for pesticides, other environmental chemicals, or their biomarkers of exposure. Develop classical ELISAs and apply to human and environmental exposure studies. A Ph.D., in a relevant discipline such as toxicology, analytical chemistry, chemistry, or biochemistry is expected. A solid background in synthetic chemistry a plus. Salary is \$29,700 per year plus benefits. Send résumé and references to: **Bruce D. Hammock, University of California Davis, Department of Entomology, Davis, CA 95616. E-mail: bdhammock@ ucdavis.edu.** 

**POSTDOCTORAL POSITION** is available in the Basic Research Laboratory, Center for Cancer Research, National Cancer Institute, National Institutes of Health, to further develop lentiviral vectors for gene transfer *in vitro* and *in vitro* and for genetic immunization. Candidate with Ph.D. or M.D. and one to three years of experience in molecular biology or related field is preferred. Please send curriculum vitae and names of three references to: **Suresh K. Arya, Ph.D.; c-mail: aryas@exchange.nih.gov.** 



academic investigators the preclinical and early clinical arug development contract resources of NCI's Division of Cancer Prevention. The goal of RAPID is the expeditious movement of novel molecules and concepts from the laboratory to the clinic for clinical trials of efficacy. RAPID will assist investigators who submit successful requests by providing any (or all) of the preclinical and phase 1 clinical developmental requirements for phase 2 clinical efficacy trials. These include, for example, preclinical pharmacology, toxicology, and efficacy studies; bulk supply, GMP manufacturing and formulation; and regulatory and IND support and phase 1 clinical studies. Suitable types of agents for RAPID may range from single chemical or biological entities to defined complex

mixtures with the potential to prevent, reverse, or delay carcinogenesis. For more detailed information, visit the web site, http://cancer.gov/rapid. Requests for RAPID resources are to be submitted as described in the web site.

Written requests will be evaluated by a specially constituted RAPID panel, consisting of selected NCI staff and outside experts from academia and industry. Requests must be received on or before October 1, 2001. Applications should be submitted directly to the office listed below. Inquiries are encouraged, and the opportunity to clarify issues or questions is welcome. This notice has also been published in the NIH Guide. Please contact:

RAPID Program Attn: Emilia A. Richichi, Ph.D. Chemopreventive Agent Development Research Group Division of Cancer Prevention, NCI Executive Plaza North, Room 2117 6130 Executive Blvd., Rockville, MD 20852 (overnight mail) 9000 Rockville Pike, Bethesda, MD 20892 (regular mail) Telephone: (301) 594-1165 Fax: (301) 402-0553 Email: richichi@mail.nih.gov

#### INTERDISCIPLINARY NIH, NIDCD

Imaginative engineer/physician/scientist to lead the development of research on the neural prosthetic devices for individuals with hearing, speech, smell, taste or vestibular disorders. Prosthetic devices currently under development include cochlear and brainstem implants and hearing aids.

The National Institutes of Health (NIH), the National Institute on Deafness and Other Communication Disorders (NIDCD), located in Rockville, Maryland, is recruiting for a full-time, Interdisciplinary position in the Division of Extramural Research. The incumbent provides scientific leadership in coordinating a program of grant and contract-supported research aimed at solving technical problems of bioengineering which are hampering the development of practical prosthetic devices and aids for individuals with sensory impairment. Actively participates in planning, conducting and evaluating ongoing research in scientific areas related to deafness and other communication disorders. Incumbent is innovative in developing new research areas related to the mission of the Institute through close contact with academic, clinical, and public communities. This position includes expansion into other NIDCD mission areas, such as laryngeal and vestibular prostheses and olfactory sensors.

This appointment confers government benefits. The salary range is from \$63,211 to \$114,224 per annum and is commensurate with education and experience. Appointee must be a U.S. citizen. However, other appointment mechanisms and incentives may apply in individual circumstances based on experience and expertise with total salary and incentive compensation to be negotiated. If other mechanism is used, resident aliens or nonresident aliens with a valid employment authorization may be considered.

Candidates must meet the GS-401/413/601/602/858-13 level or above qualification standards. See announcement NIDCD-01-0007 at http://careerhere.nih.gov for qualification requirements and application procedures. For further information contact Ms. Jennings on (301) 402-0508 (voice) or (301) 402-1562 TTY. Applications must be postmarked by August 31, 2001. Please annotate announcement number on the application.

National Institutes of Health Department of Health and Human Services NIH IS AN EQUAL OPPORTUNITY EMPLOYER

#### Rapid Access to Intervention Development "RAID"

The NATIONAL CANCER INSTITUTE is requesting applications for the following initiative: Rapid Access to Intervention Development (RAID). RAID will make available to academic investigators, on a competitive basis, the preclinical development contract resources of NCI's Developmental Therapeutics Program. RAID is not a grant program to originating investigators. The goal of RAID is the rapid movement of novel molecules and concepts from the laboratory to the clinic for proof-of-principle clinical trials, using NCI's contract research mechanisms. RAID will assist investigators who submit successful applications by providing any (or all) of the preclinical development steps that may be obstacles to clinical translation. These may include, for example, production, bulk supply, GMP manufacturing, formulation and toxicology. Suitable agents for RAID will include small molecules, biologics or vaccines. There are two receipt dates for proposals per year, February I and August I. Current applications must be received by August 1, with all materials submitted directly to the office listed below. For information on process and procedure, visit the web site http://dtp.nci.nih.gov. Inquiries are encouraged, the opportunity to clarify issues or questions is welcome. Academic investigators may have collaborations with small-business partners and still qualify for RAID funding. Non-profit organizations other than universities may also submit RAID applications. Please note that a maximum of two distinct proposals per investigator can be submitted for each application review date. Please contact:

RAID

Office of Associate Director Developmental Therapeutics Program National Cancer Institute Executive Plaza North Building, Suite 8022 6130 Executive Blvd. Rockville, MD 20852 Tel: 301-496-8720; Fax: 301-402-0831 raid@dtpax2.ncifcrf.gov

#### POSITIONS OPEN

## JUNIOR FACULTY AND POSTDOCTORAL POSITIONS

#### Neuroscience of Brain Imaging

The Center for Advanced Brain Imaging and the Center for Dementia Research of the Nathan Kline Institute (NKI) invite applications from individuals with a strong background in biology, biophysics, or related science to investigate disease mechanisms in transgenic mouse models of Alzheimer's disease and other CNS disorders using in vivo brain imaging. Unique research and training opportunities are available to combine molecular, genetic, and morphological approaches with state-of-the-art imaging techniques in a multidisciplinary setting. NKI is affiliated with New York University School of Medicine and is located in the Hudson River Valley in close proximity to Manhattan. Please send résumé, a brief statement of interests, and names of three references to: Dr. Joseph A. Helpern, Nathan Kline Institute, 140 Old Orangeburg Road, Orangeburg, NY 10962. FAX: 845-398-5472; e-mail: cabi@nki.rfmh.org. NYS/OMH is an Affirmative Action/Equal Opportunity Employer.

#### POSTDOCTORAL AND RESEARCH ASSOCIATE POSITIONS AVAILABLE Molecular and Cellular Pharmacology School of Medicine University of Miami

Postdoctoral Associate (Ph.D. and/or M.D. degree) and Research Associate (B.S. degree) positions with one or more years of experience are open immediately to work in the areas of molecular cardiology, hypoxia, ischemia, apoptosis, and gene therapy. The areas of focus include analyses of cellular signaling in response to oxidative stress, gene cloning and vector construction, gene delivery to cells and tissues, analysis of gene expression, and evaluation of therapeutic benefit in models of vascular disease. Experience in molecular biology is required; experience with animal models would be advantageous. Salary for these positions commensurate with experience. Applicants should send curriculum vitae, description of current research interests, and references to: Dr. Keith Web ster, Department of Molecular and Cellular Pharmacology, University of Miami School of Medicine, P.O. Box 016189, Miami, FL 33101. E mail: kwebster@chroma.med.miami.edu. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE: Two NIH-funded POSTDOCTORAL POSITIONS in the Department of Physiology at the University of Texas Health Science Center San Antonio are immediately available to study regulation of the epithelial Na channel (ENaC). Research will focus on cellular signaling cascades modulating ENaC and will include biophysical analysis complementing molecular and biochemical approaches. The Department of Physiology is a strong research community with many opportunities for collaboration and development of new laboratory skills. San Antonio is an attractive, historic city that is affordable and has a multicultural heritage. Applicants should hold a Ph.D. or equivalent with strong electrophysiology background. Please send curriculum vitae and names and addresses of three references to: Dr. James Stockand, UTHSCSA, Department of Physiology, 7703 Floyd Curl Drive, San Antonio, TX 78229-3900. E-mail: stockand@uthscsa.edu.

The University of Texas Health Science Center at San Antonio is an Equal Opportunity/Affirmative Action Employer.

#### POSITIONS OPEN

#### FACULTY POSITION Genomics and Nutrition

The Department of Nutrition, School of Public Health, University of North Carolina at Chapel Hill is seeking an individual with a Doctorate in an appropriately related discipline and a track record in an area of research focused on the use of genomics to study questions pertinent to the field of nutrition (e.g., genomics and metabolism, genomics, and nutrition epidemiology) to fill a tenure-track or tenured appointment (ASSISTANT, ASSOCIATE, or FULL PROFESSOR level) in the Department of Nutrition beginning on or after July 1, 2002. Rank will be determined by the applicant's qualifications. The individual would join a group of Investigators interest ed in genomics and public health and would be involved with a campuswide genomics center headed by Dr. Terry Magnusen.

Applicants should send curriculum vitae, a description of research plans, and names of three references to:

Dr. Rosalind Coleman, Professor Department of Nutrition CB Number 7461, School of Public Health University of North Carolina at Chapel Hill Chapel Hill, NC 27599-7461

The application deadline is open. UNC-CH is an Equal Employment/Americans With Disabilities Act Employer. Women and minorities are encouraged to apply.

#### **RESEARCH FACULTY**

The laboratory for eicosanoid biology within the allergy program of the Rheumatology, Immunology, and Allergy Division of the Department of Medicine at Brigham and Women's Hospital in Boston, Massachusetts, seeks an ASSISTANT PROFESSOR with expertise in the molecular aspects of the eicosanoid generating pathways. This includes gene transcription, gene expression and characterization of recombinant products, and generation of mice with specific gene disruptions along with biochemical and functional analyses of such mice. Combined Ph.D./M.D. preferred since the focus of the laboratory is on the inflammatory response in general and human bronchial asthma in particular. Applicants should send curriculum vitae, a description of current research, and names and addresses of three persons who can be contacted for recommendations to: Paul J. Anderson, Acting Chief of Rheumatology, Immunology, and Allergy, Brigham and Women's Hospital, Smith Building, Room 652, Boston, MA 02115. FAX: 617-525-1310. Brigham and Women's Hospital is an Equal Opportunity Employer.

### SENIOR/RESEARCH SCIENTIST AND POSTDOCTORAL POSITIONS

The Institute of Biomedical Technology (SUNY) and BioLife Solutions, Inc. announce the immediate availability of a Senior/Research Scientist and two NIH-funded Postdoctoral positions in the areas of cell damage/death signaling pathways in biologic preservation (hypothermia and cryopreservation). Experience with mammalian cell culture, molecular biology, and proteomics is essential. Candidates must hold a Ph.D. We are seeking individuals who are selfmotivated, career oriented, and team players. Candidates should provide curriculum vitae including a full list of publications and past research experience to: Dr. John G. Baust, BioLife Solutions, Inc., Science 3 Suite 144, SUNY Park, Binghamton, NY 13902.

LABORATORY DIRECTOR, POSTDOC-TORAL, and RESEARCH ASSOCIATES with experience in monoclonal antibodies, flow cytometry, and chemilluminescent detection of cells infected with HIV, HCV, other viruses, and cancer cells are needed in a research and development laboratory in Albuquerque, New Mexico. Send résumé to: Sandy@biotechimaging.com or by FAX to: Human Resources; FAX: 301-695-0030. Website: http:// biotechimaging.com.

#### POSITIONS OPEN

#### SENIOR EDITOR

The Journal of the National Cancer Institute/Oxford University Press seeks a Senior Editor to edit content of scientific manuscripts. Ideal candidates must possess a Ph.D. in a biomedical field (epidemiology is preferred) and a background revising/rewriting scientific manuscripts. Excellent interpersonal skills are essential. Experience writing/cditing for a scientific journal and soliciting manuscripts is highly desirable.

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> Human Resources Department Oxford University Press 2001 Evans Road Cary, NC 27513 FAX: 919-677-2673 E-mail: humanres@oup-usa.org

#### NIH-FUNDED POSTDOCTORAL POSITION Basic Mechanisms of Cancer Pain

Position available immediately to study the substances secreted by tumors that initiate cancer pain and effects of tumors on excitability of spinal neurons. The applicant should have a Ph.D. or equivalent degree in the biological sciences; a background in neuroscience or tumor biology; and experience with microdialysis, immunocytochemistry, molecular biology, or electrophysiology. Please send curriculum vitae, a brief summary of research experience, and the names and addresses of three references to: Dr. Alvin Beitz, University of Minnesota, 295 AS/VM, 1988 Fitch Avenue, St. Paul, MN 55108. E-mail: beitz001@tc.umn.edu. The University of Minnesota is an Equal Opportunity Educator and Employer.

POSTDOCTORAL POSITION for an Organic or Bioorganic Chemist is available at the University of Minnesota. Candidates with strong backgrounds in bioconjugation strategies and characterization techniques and with experience in organic synthesis and DNA purification strategies are desired. The successful candidate will play a key role in a project aimed at using DNA nanotechnology for the self-assembly of nanoscale structures and will interact with students and faculty in the chemistry and electrical engineering departments working with Professors Richard Kiehl and Karin Musier-Forsyth (U. of Minn) and Professor Nadrian C. Seeman (New York University). Send curriculum vitae and three letters of recommendation to: Richard Kiehl; e-mail: kiehl@ece.umn. edu.

**POSTDOCTORAL POSITION:** Candidates with experience in G proteins/signal transduction/ cell transformation to study Rho G protein pathway that mediates cytoskeletal organization and cell proteins, adhesion proteins, and pharmacological inhibitors. Position requires Ph.D. and U.S. pennanent residency/ditizen to qualify for NIH training grant. Send curriculum vitae with names of references to: Dr. D. Toksoz, Department of Physiology, Tufts University School of Medicine, 136 Harrison Avenue, Boston, MA 02111. E-mail: deniz.toksoz-exley@ tufts.edu. Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** available immediately to investigate the role of nuclear hormone receptors and the mechanisms of retinoid-induced apoptosis in cancer (*MCB* 17:6348, 1997; *Nat. Med.* 3:686, 1997; *Canter Res.* 58:4607, 1998). Recent Ph.D. with experience in molecular biology and signal transduction pathways is required. Candidates should send curriculum vitae and letters of reference to: Dr. Magnus Pfahl (e-mail: mpfahl@skcc.org) or Dr. F. Javier Piedrafita (e-mail: jpiedrafita@skcc.org), Sidney Kimmel Cancer Center, 10835 Altman Row, San Diego, CA 92121.

#### POSITIONS OPEN

POSTDOCTORAL POSITION available to work on the development and testing of novel vector systems for generation of cellular immune responses against breast cancer antigens. Our research is focused on the expression of her2 and other antigens in mammalian cells using bacteriophage vectors and on the targeting of such vectors to dendritic cells by surface display of specific receptor-binding molecules. Experiments include analyses of T cell responses in normal and HLA A2-transgenic mice using ELISPOT and cytolytic assays, as well as intracellular cytokine staining. Our laboratory occupies newly constructed research space in a highly collaborative environment, and our work is supported by a newly funded federal grant. Strong training and career development opportunities are available. Our laboratory employs a diverse range of techniques including recombinant virus vectors, phage display technology, and other approaches. Please send curriculum vitae and names of three references to: Dr. Steve Dewhurst, Department of Microbiology and Immunology, University of Rochester Medical Center, 601 Elmwood Avenue, Box 672, Rochester, NY 14642. E-mail: stephen\_dewhurst@urmc.rochester.edu.

#### POSTDOCTORAL OPENING

A POSTDOCTORAL POSITION is available to use antibody engineering and phage display to develop new therapies for cancer. Recombinant immunotoxins are constructed by fusing the Fv portions of antibodies to a mutant form of Pseudomonas Exotoxin A. Phage display is used to increase the affinity of the antibody and to isolate new antibodies. Several recombinant immunotoxins prepared by this approach are now being evaluated in humans and in some cases have caused partial or complete tumor regressions. Send curriculum vitae and bibliography plus contact information of three references to: Ira Pastan, M.D., Laboratory of Molecular Biology, National Cancer Institute, National Institutes of Health, 37 Convent Drive MSC 4255, Building 37, Room 4E16, Bethesda, MD 20892-4255. Telephone: 301-496-4797; FAX: 301-402-1344; c-mail: molecularbiology-r@mail.nih.gov.

#### POSTDOCTORAL POSITIONS

Positions are available immediately on NIH-funded projects to study receptor tyrosine kinase-mediated signaling mechanisms in skeletal development and angiogenesis. Ph.D. or M.D. and background in molecular biology, cell biology, and/or biochemistry required. Approaches include cell culture systems, transgenic, and knockout technologies. Prospective candidates should send curriculum vitae and the names of three references to: Robert Friesel, Ph.D., Center for Molecular Medicine, Maine Medical Center Research Institute, 81 Research Drive, Scarborough, ME 04074-7205. E-mail: friesr@ mmc.org; website: http://zappa.mmcri.mmc. org. Affirmative Action/Equal Oppotanity Employer.

**POSTDOCTORAL POSITIONS** (2) available immediately for NIH-funded project focusing on computer-assisted photodynamic therapy of prostate cancer. Successful candidates will concentrate on effects of PDT in prostate cancer. Previous experience in one of the following field is highly desired: PDT of mammalian systems, programming (visual C++), and protein purification. Send curriculum vitae to: Dr. Jerzy Jankun, Urology Research Center, 3000 Arlington Avenue, Toledo, OH 43699. E-mail: jjankun@mco.edu; website: http://golemxiv.dh. mco.edu/~jerzy.

**POSTDOCTORAL ASSOCIATE** sought to study stress-related regulation of ion channel expression and neuronal excitability. Integrative use of molecular biology, patch clamp electrophysiology, and whole-animal physiology and behavior to study neuroendocrine modulation of acute neurosecretory response function. Direct inquiries to: David P. Mc-Cobb, Department of Neurobiology and Behavior, Cornell University, Ithaca, NY 14850. E-mail: dpm9@cornell.edu; Telephone: 607-254-4321; FAX: 607-254-4308.

#### POSITIONS OPEN

The Investigational Biologics Group under the direction of Jon Wigginton, M.D., in the Center for Cancer Research at the National Cancer Institute has POSTDOCTORAL TRAINING POSITIONS available. Ongoing research efforts focus on the investigation of mechanisms of interface between endogenous and therapeutically driven immune responses and the regulation of tumorigenesis (i.e., angiogenesis, apoptosis); the design of biologically targeted therapeutic strategies (cytokine combinations, antiangiogenics) for solid tumors; and the direct translation of novel approaches into early-phase clinical investigation. The candidate should hold either a Ph.D. or M.D. and possess an interest in immunology/oncology and significant experience in molecular biology and/or cellular immunology. Candidates should have less than five years of postdoctoral experience. Correspondence, names of references, and curriculum vitae should be sent to: Dr. Jon Wigginton, Head, Inves-tigational Biologics Group, POB, CCR, NCI, Building 560, Room 31-93, NCI-CCR, Freder-ick, MD 21701-1201. E-mail: wiggintonj @pb.nci.nih.gov.

#### WORKSHOPS

TRANS-HHS WORKSHOP: DIET, DNA METHYLATION PROCESSES, AND HEALTH Bethesda, Maryland, U.S.A. August 6–8, 2001

Contact: The Scientific Consulting Group, Inc., 656 Quince Orchard Road, Suite 210, Gaithersburg, MD 20878 U.S.A. Telephone: 301-670-4990; FAX: 301-670-3815; e-mail: gboyd@scgcorp.com; website: http://www. dictmethylation2001.com.

#### **ANNOUNCEMENTS**

Funding for the **REGIONAL CLIMATE IM-PACT ANALYSIS PROGRAM** now available for **RESEARCH SCIENTISTS** associated with a university. You are invited to submit a proposal for funding by the National Institute for Global Environmental Change for the academic fiscal year 2001–2002. The program description and the proposal guidelines are available online at the following website: http:// nigec.ucdavis.edu/. The full proposal is due 1700 hours EDT on 31 July 2001.



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