

NEW PRODUCTS

DNA AMPLIFICATION

The FailSafe PCR System provides high-fidelity DNA amplification for a variety of routine and challenging templates. Both long (at least 20 kb) and difficult templates (such as sequences with high GC or a high degree of secondary structure) can be amplified consistently using this system. The system includes a thermostable polymerase blend with 3'→5' proofreading activity, providing high fidelity without sacrificing yield.

Epicentre

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GEL LOADING PLATES

Microtrough Glass Sequencing Plates are designed for quick and easy loading of high-throughput, 96-lane gels. Notched inside the front plate are 96 microtroughs, which

Sigma

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maintain sample capacity up to 5 µl for an increased number of wells. Gel casting simply requires a casting comb that fills the microtroughs and forms a defined area for sharktooth comb placement. Microtroughs provide a greater loading area and guide your pipette tips for more accurate loading and lane tracking, eliminating expensive syringe loaders or specialized tips.

GOLD ENHANCEMENT

Goldenhance is a new chemical amplification reagent that offers new features not available with conventional silver enhancement in light and electron microscopy and membrane blotting techniques. Goldenhance is a novel reagent that, instead of silver, deposits gold catalytically onto Nanogold and colloidal gold labels. The resulting enlarged particles are easier to detect. Compared with silver en-

Nanoprobes

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hancers, this reagent is compatible with more buffers, including physiological buffers (unlike silver, which is precipitated by halides), and is less sensitive to pH. It is easier to use because autonucleation occurs later; it is nonviscous for accurate dispensing and mixing. This reagent could extend the reach of the biomedical researcher; it is especially suitable for applications in fields such as rapid medical diagnostics and cancer detection and screening. It is available in two formulations, one optimized for electron microscopy and the other for light microscopy and membrane blotting.

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

DNA samples

global collection network

GenomicsCollaborative

has a growing collection of DNA and serum matched to phenotypic data from patients with high prevalence diseases. These samples are available to support your research.

We can meet your sample needs from inventory or by exercising our Global Collection Network on your behalf. We are adding samples, disease states, and collection sites on a regular basis.

Some examples of samples we currently have, and are actively collecting, in the following disease states are:

- Cardiovascular disease (hyperlipidemia, hypertension, AMI stroke)
- Cancers (Breast, Ovarian, Colon, Prostate, Leukemia, Lymphoma)
- Diabetes
- Asthma
- Renal failure

All material is:

- Collected under IRB approved protocols and compliant with GCP
- Processed and stored under GCP conditions

For information regarding our current inventory of samples and disease states please contact us.

GenomicsCollaborative

1-877-GENOMIX, extension 248 (877-436-6649)
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POSITIONS OPEN

TENURE-TRACK APPOINTMENT ATMOSPHERIC SCIENCE

The Department of Earth and Atmospheric Sciences at Cornell University invites applications for a 12-month tenure-track appointment in atmospheric science (40% research, 40% teaching, 20% administration). The appointee will provide leadership for, administer, and seek financial support for the Northeast Regional Climate Center (NRCC), one of six National Oceanic and Atmospheric Administration (NOAA)-funded centers. The successful candidate will have sufficient stature in the profession and experience in applied climatology to interact effectively with NOAA and Congressional staff on behalf of the entire climate center system. Other responsibilities include effective supervision of employees associated with the NRCC; developing and implementing a forward-looking plan to optimize the use of the NRCC by a broad clientele, which includes agriculture; and leadership for the extension activities of NRCC staff. The incumbent will conduct a nationally recognized research program in atmospheric science that is consistent with the mission of the Climate Center. Obtaining external funding is expected. Teaching responsibilities will consist of one course per semester, including an alternate-year elective course in an area of the individual's expertise. Mentoring of graduate and undergraduate students is expected. A Ph.D. in atmospheric science or closely related discipline and sufficient stature in the community and experience in applied climatology to interact effectively with both NOAA and Congressional staff on behalf of the entire Climate Center system are required. Applicants should forward a cover letter describing qualifications and interest in the position, current and future research interests, teaching interests and experience, and a statement of vision with respect to the Climate Center system; curriculum vitae; academic transcripts; a maximum of five representative reprints; and the names and addresses of three references to: **Professor D. S. Wilks, Department of Earth and Atmospheric Sciences, 1123 Bradfield Hall, Cornell University, Ithaca, NY 14853. Telephone: 607-255-1750; e-mail: dsw5@cornell.edu.** Closing date: July 1, 2000. *Cornell University is an Affirmative Action/Equal Opportunity Employer.*

ASSOCIATE TOXICOLOGIST OPEN EXAMINATION

The Department of Pesticide Regulation in the California Environmental Protection Agency seeks Associate Toxicologists. The openings exist in Sacramento, California. Entry-level position in conducting human pesticide exposure assessments, evaluating toxicological or exposure studies, or preparing risk assessments. To qualify, persons must: (1) hold a Doctoral degree in toxicology or a closely related field (e.g., public health, bio- or environmental chemistry, pharmacology, or physiology); or (2) have three years of experience past receipt of a Master's degree in performing and interpreting studies and/or conducting safety evaluations and hold a Master's degree in toxicology, biochemistry, pharmacology, or closely related fields from an accredited college or university; or (3) have certification as a Diplomat of the American Board of Toxicology. The current salary range is \$4,136 to \$5,480 per month. A comprehensive benefits package is available, which may include limited payment of relocation expenses. Submit application and résumé to the address below by the final filing date of June 30, 2000. This position requires an oral examination, which may be in August/September 2000. For a copy of the examination bulletin and state application form, visit the California State Personnel Board's websites: www.spb.ca.gov/jobsrd.cfm and www.spb.ca.gov/bulletinsrd.cfm or call the Department of Pesticide Regulation Job/Examination line at Telephone: 916-323-0547.

Department of Pesticide Regulation
Human Resources Branch
830 K Street, Room L1
Sacramento, CA 95814-3510
Attention: Linda Sarabia

POSITIONS OPEN

ASSISTANT PROFESSOR OF CHEMISTRY PUBLIC HEALTH UNIVERSITY OF TEXAS AT EL PASO

University of Texas at El Paso's Department of Chemistry invites applications for a full-time, tenure-track Assistant Professor position beginning fall 2000 or spring 2001. Candidates with appropriate experience may be considered for appointment at higher levels. The successful candidate will have a Ph.D. in chemistry and research interests related to the fate of chemicals and toxins in the environment and their role in public health issues. Examples of desirable fields would be the effect on public health of the degradation/detoxification products of pesticides, herbicides, or polynuclear aromatic molecules. It is expected that the successful candidate would collaborate with the newly established Border Health Institute and participate in the University of Texas Houston School of Public Health, Master of Sciences Program (El Paso campus). The ability to participate in UTEP's interdisciplinary Ph.D. programs in environmental sciences and engineering, materials science and engineering, and pathobiology would be considered a plus. The successful candidate will have a strong commitment to teaching at the undergraduate and graduate level. Candidates should send a letter of application, detailed curriculum vitae, a statement of teaching philosophy, a description of proposed research, and should arrange for three letters of reference to be sent separately to: **Chemistry/Public Health Search Committee, University of Texas at El Paso, Department of Chemistry, El Paso, TX 79968-0513.** Information about our Department can be found at the website: <http://www.chemistry.utep.edu>. *The University does not discriminate on the basis of race, color, national origin, sex, religion, age, disability, or sexual orientation in employment or the provision of services.*

TENURE-TRACK POSITIONS DEPARTMENT OF PHARMACOLOGY UNIVERSITY OF TENNESSEE MEMPHIS

The Department of Pharmacology of The University of Tennessee College of Medicine is enlarging its neuropharmacology faculty and is seeking to fill tenure-track positions at the **ASSISTANT/ASSOCIATE PROFESSOR** level. Applicants must have a Ph.D. or M.D./Ph.D.; candidates for the Associate-level position must have demonstrated capability to support and direct a competitive research program. Individuals using molecular, cellular, and/or electrophysiological approaches and who look forward to collaboration in a highly interactive research environment with a large, well-funded neuroscience community will be given preference. This is a 12-month appointment that includes teaching responsibilities in both the professional and graduate colleges. Excellent laboratory facilities and start-up funding are available. These positions will remain open until filled. Applicants should submit curriculum vitae, three letters of reference, and a detailed description of their research program to: **Burt M. Sharp, M.D., Chair, Department of Pharmacology, The University of Tennessee College of Medicine, 874 Union Avenue, Memphis, TN 38163.** *The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/Americans With Disabilities Act/Age Discrimination in Employment Act Employer. Women and minorities are especially encouraged to apply.*

UNIVERSITY OF FLORIDA

Seeks a **CLINICAL ASSISTANT/CLINICAL ASSOCIATE PROFESSOR** for the Department of Medicine, Division of Endocrinology. M.D. degree; Board-certified/Board-eligible in internal medicine and/or endocrinology. The responsibilities will consist of patient care in the inpatient/outpatient clinics of Shands Hospital. Salary and benefits are commensurate with experience. Recruiting deadline: June 9, 2000. Anticipated starting date: July 1, 2000. Please reply with curriculum vitae to: **Josef Vesely, M.D., Box 100277 JHMHC, Gainesville, FL 32610.** *An Affirmative Action/Equal Opportunity Employer.*

ONE PURPOSE

Battling cancer. It's what we do. In fact, it's all we do. At ILEX Oncology in San Antonio, we focus on developing drugs to treat and prevent cancer. Our results and careers are distinguished by this singular vision. We invite you to match your qualifications to ours through the following opportunities available in San Antonio.

MANAGER, METHOD DEVELOPMENT/VALIDATION

The successful candidate must have a Ph.D. in Analytical, Organic or Natural Products Chemistry and 3-5 years industrial experience or BS/MS with 5-10 years industrial experience. Experience must include a solid track record of analytical method development and validation in support of API and finished dosage form manufacturing. The successful applicant will also have a diverse background in modern analytical instrumentation. Experience supporting process safety assessments and API physical characterization studies strongly preferred.

MANAGER, PROCESS CHEMISTRY

Qualified applicants must have a Ph.D. in Organic Chemistry with 10+ years of industrial experience managing technical professionals. Your experience must include activities directly relating to the development of synthetic routes toward Active Pharmaceutical Ingredients. We prefer a strong familiarity with Analytical Method Development, Hazard Assessment, Developmental Scale Processing Equipment and Process validation. Project management skills are a plus.

MANAGER, QC/STABILITY

Applicant must have a BS, MS or Ph.D. with a minimum of 5 years of active involvement in the management of Quality Control personnel and activities in a cGMP environment. Qualified candidates must also have experience in both supporting Active Pharmaceutical Ingredient and final dosage form manufacturing. Knowledge of GLP's helpful, but not required. Experience relating to the preparation of CMC sections or IND and DMF filings strongly desired.

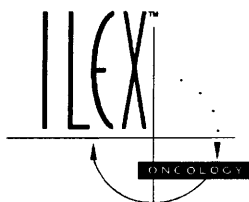
GROUP LEADER, FORMULATIONS

The successful candidate must have a Ph.D. and 5-10 years experience in the pharmaceutical industry. Candidates must also have experience in the design and execution of formulation development studies supporting both oral and parenteral drug products. Qualified applicants must have a proven track record of technology transfer to the manufacturing environment and a thorough understanding of GLP and cGMP. Knowledge of formulation development unit operations in a manufacturing environment is desirable. This position will interface with ILEX's drug safety, toxicology, process development, manufacturing, and QA/QC units.

SENIOR SCIENTIST, FORMULATION

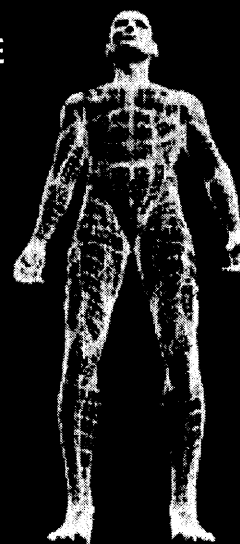
Applicants must be versed in a wide variety of formulation technologies. Primary work will involve development of liquids and parenteral formulations. Experience with controlled release, stability enhancement, or other novel drug delivery is desirable. The successful candidate should have a Ph.D. in pharmaceutical sciences or an allied field. An understanding of GLP and cGMP along with 3+ years of experience in a formulation development or closely related field are preferred.

ILEX™ offers an excellent benefits package and competitive salary. We encourage you to mail, fax or e-mail your resume and salary requirements, specifying the position you're applying for, to: **ILEX Oncology, Inc., Human Resources Dept., 11550 IH-10 West, Suite 100, San Antonio, TX 78230; Fax: (210) 949-8483; E-mail: jobs@ilexonc.com** EOE, M/F/D/V.



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EPIX
MEDICAL

Group Leader - Discovery Research, Medicinal Chemistry

We are searching for an outstanding Ph.D. chemist to head our discovery research synthetic chemistry team, currently comprised of 7 Ph.D. and 2 BS/MS level scientists. The primary qualifications include a Ph.D. with 0-3 years postdoctoral experience and 5-10 years experience in the pharmaceutical or biotechnology industry. The successful candidate will coordinate all synthetic chemistry efforts in the discovery area, implement appropriate new technologies and medicinal chemistry strategies, and maintain a significant laboratory presence. Must have excellent laboratory skills, an outstanding academic background, strong communication and management skills, and a demonstrated record of industrial accomplishments in synthetic organic chemistry or related disciplines. Job Code: GL-TM.

Group Leader - Pharmacology/Toxicology

We are looking for someone to head up our pharmacology department. Successful candidates must have a Ph.D. in Pharmacology, Toxicology, or a closely related biological area, and 4+ years of industry experience. Direct experience with animal models is required. Experience with cardiovascular models is desirable. Supervisory experience and excellent communication skills are essential. Job Code: GLPT-PG.

We offer a competitive salary, a comprehensive benefits package including stock options, and career advancement opportunities within a growing company. Please mail or fax your resume with cover letter to:

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Every day, we defy the odds.

SmithKline Beecham Pharmaceuticals, a world-class leader in Research and Development, continues to pioneer innovative pharmaceutical and healthcare products and services. We have the following opportunities available at our state-of-the-art suburban Philadelphia facility.

Postdoctoral Fellow

In this position, you will be part of a team focusing on multiple targets for the control of urogenital function and the treatment of urological disorders, within the Renal Pharmacology department. You must have an interest in characterization of $\alpha 1$ - and $\alpha 2$ adrenoceptors on the prostate and the bladder, and in evaluating their role in contraction and other functions mediated by these tissues. We require experience with radioligand binding and functional isolated tissue assays. Familiarity with molecular biological and cell culture techniques also desirable. (Ad Code: 2K0545)

Investigator

You will have the responsibility for coordinating efforts to characterize novel 7-transmembrane receptors within the Renal Pharmacology department, including expression of these receptors in appropriate cell lines, and functional and radioligand binding assays on these recombinant receptors. You will also participate in the search for endogenous ligands for orphan receptors, and conduct isolated tissue assays to identify actions of ligands with particular emphasis on the urogenital system. We require expertise in the study of 7-transmembrane G-protein coupled receptors, and experience in basic molecular techniques such as transient gene expression, message localization and gene reporter assays. A demonstration of scientific productivity via publication in peer-reviewed journals is also essential. (Ad Code: 2K0546)

Postdoctoral Research Fellow

You will utilize pharmacological and/or cell biological techniques that will facilitate the execution of SB's genomics-driven drug discovery strategy. You will also provide the expertise necessary to perform functional pharmacology/biochemistry and integrated physiology focused on delineating novel pathological mechanisms. We require a PhD, and both theoretical and practical knowledge of functional pharmacology and/or cell biology. You should also have an interest in broad areas of vascular biology with specific interests in vasoactive peptides/G-protein-coupled receptor pharmacology and/or cellular mechanisms underlying vascular remodeling. (Ad Code: 2K0338)

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McGILL UNIVERSITY
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Faculty of Medicine/Faculté de médecine

McGill University is undertaking a major development and academic renewal of the Basic Science Departments of the Faculty of Medicine. To this end, we have launched a major initiative to recruit new faculty members to all Departments over the next three years at the junior and senior levels. Candidates will be considered for the new Canada Research Chairs, as appropriate. This search for talented individuals with interests and skills in interdisciplinary research is being conducted as a cooperative effort of the Basic Science Departments of the Faculty of Medicine. The successful candidates will be appointed in the Department(s) most appropriate to their interests, field of research and potential for fruitful collaborations.

Research in the Basic Science Departments is organized in four major themes: structural biology, integrative genomics, cellular information systems and molecular medicine. The Faculty seeks individuals who have or will establish strong, independently-funded research programs in specific areas that will include:

Bioinformatics	Drug Design	Infectious Diseases
Micro- and Nano- bioinstrumentation	Molecular and Cellular Imaging	Molecular and Cellular Physiology
Molecular Developmental Biology	Molecular Oncology	Pharmacology
Protein Chemistry	Structural Biology	

The successful applicants will be members of, and expected to contribute to, the research and teaching missions of one or more of the following Basic Science Departments of the Faculty of Medicine:

Anatomy and Cell Biology	Biochemistry	Biomedical Engineering
Cancer Center	Human Genetics	Microbiology & Immunology
Pathology	Pharmacology & Therapeutics	Physiology
Epidemiology & Biostatistic and Occupational Health		

Please send a curriculum vitae, a short statement of research interests and the names of three referees to:

Dr. Abraham Fuks, Dean
Faculty of Medicine
McGill University
McIntyre Medical Sciences Building
3655 Promenade Sir William Osler
Montréal, QC H3G 1Y6

McGill University is committed to equity in employment.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.



DIRECTOR, NEW JERSEY SEA GRANT EXTENSION PROGRAM

The New Jersey Marine Sciences Consortium (NJMSC), a not-for-profit research and education institution, manages the *New Jersey Sea Grant College Program*. NJMSC seeks a qualified candidate to fill the vacancy of **Director, New Jersey Sea Grant Extension Program (NJSSEP)**. *New Jersey Sea Grant* desires to build a statewide Extension network; therefore the primary focus of the successful candidate will be on program planning, funding and implementation. Other duties will include administrative responsibility for the biennial grant competition, interactions with Principal Investigators, and assisting the Director with SG Omnibus Proposal. Incumbent will manage outreach activities in programmatic areas of the Sea Grant Strategic Plan relevant to all NJ stakeholders. It is expected that the Director will hold an academic appointment at a Member Institution.

Minimum requirements are a Ph.D degree with a specialty in (no order of preference): 1) coastal ecology, 2) environmental sciences, 3) coastal engineering or geology, 4) fisheries and/or marine biotechnology, or 5) marine policy and management. Administrative and interdisciplinary program experience and a solid record of publications and grantsmanship preferred.

A letter of intent, curriculum vitae, a brief statement of philosophy for coastal resources management, and names and addresses of three (3) references should be addressed to: **Dr. Michael P. Weinstein, President, New Jersey Marine Sciences Consortium, Sandy Hook Field Station, Bldg. #22, Fort Hancock, NJ 07732.** Application closing date is 9 June 2000.

NJMSC is an Equal Opportunity/Affirmative Action Corporation. Proper documentation of identity and employability required at the time of employment.

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Candidates must hold a doctorate degree in statistics, genetics, epidemiology or related field. At least 2 years postdoctoral experience preferred.

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DESCOBRIR

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Workshop em Montreal - agosto de 2000

Europa

Workshop em Paris - outubro de 2000

NATIONAL
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Be an NCI Cancer Prevention Fellow

THE NATIONAL CANCER INSTITUTE (NCI) sponsors the Cancer Prevention Fellowship Program (CPFP). Its purpose is to train individuals from a multiplicity of health and biomedical science disciplines in the field of cancer prevention and control.

What will I get out of the program?

- Master of Public Health degree
- NCI Summer Curriculum in Cancer Prevention
- Mentored research at the NCI
- Brief field assignments at other institutions

Research opportunities include chemoprevention, clinical epidemiology, diet, nutrition and other lifestyle-factor studies, evidence-based decisionmaking, intervention studies, outcomes research, special populations, screening and early detection (including genetic and other biomarkers), smoking

cessation, social and behavioral research, statistical and epidemiological methodology, and translational research.

Am I eligible?

You must have a doctorate degree (M.D., D.D.S., D.O., Ph.D. or equivalent) from a U.S., territorial or Canadian institution. Foreign medical graduates must have current USMLE or ECFMG certification.

You must also be either a citizen or resident alien of the U.S. eligible for citizenship within 4 years.

How long is the program?

Fellows are accepted for up to 5 years of training beginning in July.

When are applications due?

Applications are due September 1, 2000 for entry into the program July 1, 2001.

How do I apply?

To receive a catalog*, contact:

Douglas L. Weed, M.D., M.P.H., Ph.D.
Director
Cancer Prevention Fellowship Program

National Cancer Institute
Executive Plaza South, Suite T-41
6130 Executive Blvd MSC 7105
Bethesda MD 20892-7105

*Please provide home address and where you heard about the program.

Further inquiries:

Mrs. Barbara Redding
☎ (301) 496-8640
Fax (301) 402-4863
E-mail br24v@nih.gov

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Section Leader - CNS/CV Drug Discovery

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The successful candidate will manage early drug discovery efforts such as target selection and validation (including targets derived from genomics efforts), assay development, compound screening and lead optimization. A Ph.D. with at least 5 years of drug discovery experience in a pharmaceutical/biotechnology environment and a strong background in molecular pharmacology are required. Extensive experience in the cloning and expression of target genes and in high-throughput assay development (particularly ligand binding and signal transduction assays) is a must. A strong publication record and demonstrated ability to independently initiate and direct a creative research program are essential. **Job Code: XHXDD9105**

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Research Institute**

Using Science for Human Advantage



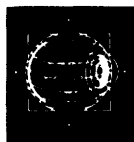
ROSS SCHOOL

High School Science Physics & Chemistry Teacher

The Ross School, an innovative laboratory school in East Hampton, New York seeks candidates for the position of High School science teacher to teach multiple sections of integrative general science, focusing on either physics or chemistry. This constitutes approximately twelve to fifteen hours per week of direct instruction, with about 12 students per section. Knowledge of the history of science is beneficial. Additionally, the general science teacher will participate in grade level instructional activities, such as weekly grade-level and domain (discipline) meetings, and assist in the integration of all domains with the science curriculum. Dedication to the Ross School's mission and vision is essential. Contract is for eleven months (August through June). Salary commensurate with experience and qualifications.

Visit our website at www.ross.org.

Send letter and CV to Dane Lewis, Ross School, 18 Goodfriend Drive, East Hampton, NY 11937



POSTDOCTORAL POSITION



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The Schepens Eye Research Institute, an affiliate of Harvard Medical School and the world's largest independent organization solely devoted to research in the mechanisms of vision and eye diseases has an immediate opening for a Postdoctoral Fellow. In this capacity you will study molecular mechanisms underlying neural development, differentiation, and nerve regeneration in the central nervous system, using newly developed and available genetically engineering mouse models (PNAS 92, 7287; Nature 385, 434; Cell 87,1317). A recent Ph.D. and/or M.D. in Biological Sciences with skills in Molecular Biology and Biochemistry is required. Experience with transgenic mice and primary neuronal culture is a plus. Please submit curriculum vitae and three letters of reference to:

Dr. Dong Feng Cheng
The Schepens Eye Research Institute
Harvard Medical School
20 Staniford Street
Boston, MA 02114
E-mail: dfchen@vision.eri.harvard.edu
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ROSS SCHOOL

Middle School General Science/Math Teacher

The Ross School, an innovative laboratory school in East Hampton, New York seeks candidates for the position of Middle School General Science/Math Teacher to teach multiple sections of integrative general science and math. This constitutes approximately twelve to fifteen hours per week of direct instruction, with about 12 students per section. Knowledge of the history of science is beneficial. Additionally, the general science teacher will participate in grade level instructional activities, such as weekly grade-level and domain (discipline) meetings, and assist in the integration of all domains with the science curriculum. Dedication to the Ross School's mission and vision is essential. Contract is for eleven months (August through June). Salary commensurate with experience and qualifications.

Visit our website at www.ross.org.

Send letter and CV to Dane Lewis, Ross School, 18 Goodfriend Drive, East Hampton, NY 11937

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Program Manager New Applications

The cutting edge of research and development for Caliper is defined by the needs of emerging applications. Applications development activities involve multi-disciplinary functions in microfluidics, chip fabrication, biochemistry, cell biology, electrical engineering, mechanical engineering, optical engineering and software development. We are building a group that will clarify the toolset for new applications development and deploy them in collaboration with internal and external developers of new LabChip® applications. The leader of this team needs to have 10+ years of experience, including having been a leader of such interdisciplinary life science systems development in the past. Background must include a minimum MS in Engineering, Chemistry, Biology, Physics or Computer Science.

Project Manager

Apply your biotech expertise to coordinate and manage instrumentation, chemistry, chip and software development for a new SNP Genotyping system. You will use your experience in the complete product cycle, from research through product launch. As part of your duties, you will create timelines and budgets, hire and train staff, select and supervise vendors, and define the product features. Accordingly, we seek a detailed, organizational focus, as well as strong communication and interpersonal skills. Background must include 4+ years as a technical contributor, with 1+ years in a supervisory role. Additionally, a minimum MS in Chemical or Electrical Engineering, or Biophysics, Biochemistry, or Computer Science is required. Experience and skills in Design of Experiments desired. Knowledge of genomics applications required.

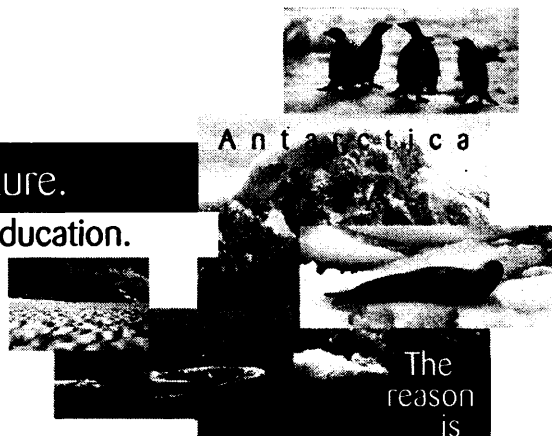
For immediate consideration, please forward your resume, specifying position of interest, to: Caliper Technologies, Attn: Human Resources, Response Code SCI, 605 Fairchild Drive, Mountain View, CA 94043. Fax: 650.623.0500. Email: jobs@calipertech.com. And for more information on how you can shape the future at Caliper, please visit www.calipertech.com. We are an Equal Opportunity Employer.

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Raytheon

ADVANCED BIOLOGY TRAINING COURSE IN ANTARCTICA - January 2001

"Integrative Biology and Adaptation of Antarctic Marine Organisms"

This National Science Foundation sponsored course will be held in Antarctica at the United States' McMurdo Station for one month, starting January 2001. This is an international course, open to all nationalities. Applications are invited from graduate students, postdoctoral fellows, and other research scientists who are interested in the biology of Antarctic organisms. The course will accommodate up to 24 students. Full scholarships are available to each student accepted into the course to cover the cost of travel from home institution to Antarctica, and room and board while in Antarctica. The emphasis of the course is on integrative biology with laboratory and field based projects focused on adaptations in an extreme polar environment. Modern laboratory facilities for experimental work, sophisticated operational support for field collection, and offering the program in Antarctica, make this course unique. A diverse teaching faculty will offer students the possibility of working on a wide range of Antarctic organisms (bacteria, algae, invertebrates, and fish), as well as working at different levels of biological analysis (molecular biology to physiological ecology and species biodiversity).

For additional information about the course in January 2001 and the application process, see the Raytheon Polar Services web site at www.polar.org (use the link option to the Biology Course). Deadline for receipt of completed applications and letters of reference is June 30, 2000.

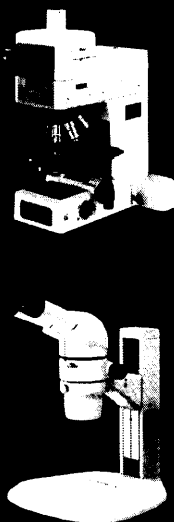
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Selected candidate will act as liaison for technical information and feedback between the end user/sales network and Nikon factory engineers on all matters pertaining to our BioScience technical product line. Applicants must have a PhD in BioSciences, BioEngineering or Physics with a specialty in optics, or equivalent experience. Knowledge of advanced techniques including fluorescence applications required. Excellent communications skills in English a must, along with good writing and public speaking abilities. Excellent benefits and compensation provided.

Mail or fax your resume, which **MUST** include salary requirements, to: HR Department, Nikon, 1300 Walt Whitman Road, Melville, NY 11747. Fax: 631-547-4025. www.nikonusa.com. Equal Opportunity Employer



POSTDOCTORAL POSITIONS Neurobiology & Genomics

**Howard Hughes Medical Institute
Department of Human Genetics
University of Chicago**

Seeking highly motivated individuals to embark on innovative projects in neurobiology and genomics. Neurobiology projects include: 1) uncovering the genetic basis for the evolution of human intelligence; 2) studying the genetic basis of brain malformations; 3) constructing a highly detailed gene expression map of the mouse brain. Genomics projects include: 1) whole-genome comparisons across species to identify genes with highly evolved functions; 2) developing unique computational tools for analysis of complex traits and identification of disease genes. For a partial list of lab research interests, see: <http://www.genes.uchicago.edu/fri/lahnres.html>

Candidates should be highly ambitious, and have published in high-visibility English language journals. Send CV to: **Dr. Bruce Lahn, HHMI, Department of Human Genetics, University of Chicago, 920 East 58th Street, CLSC, 507D, Chicago, IL 60637; or FAX (773) 834-0505; or E-mail to blahn@genetics.uchicago.edu.**



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Automation & Robotics Engineer, Genomics

You will lead our efforts in building a genomics automation platform involving the design and implementation of laboratory automation and associated robotics systems (microfluidics and precision robotics). You will integrate software by developing links to databases and laboratory information management systems (LIMS). You will interface with scientific staff to determine appropriate needs and new automation opportunities. Requires an MS or PhD in Molecular Biology, Engineering, or equivalent industry experience. A comprehensive understanding of molecular biology is preferred, including familiarity with production environments. Also requires excellent interpersonal skills.

Exelixis offers highly competitive salaries and benefits, generous equity participation, and a stimulating, highly interactive research setting that recognizes and rewards achievement. Please send your resume/CV to Exelixis, Inc., (Job#: 00-84) HR Department; Fax: (650) 825-4226; or Email: careers@exelixis.com. EOE.

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Postdoctoral Position Mayo Clinic, Rochester, MN

A postdoctoral position is available for an individual with a very strong background in molecular biology/molecular genetics. The laboratory is interested in apoptotic and/or signaling pathways in ovarian cancer. We have already transcriptionally profiled many primary ovarian tumors and constructed subtraction suppression hybridization cDNA libraries and have identified many candidate genes that we'd like to further analyze. We are seeking an individual with a Ph.D. with experience in molecular biology, tissue culture and cell signaling. Highly competitive salary and full benefits are available to motivated candidates. Mayo Foundation is a non-profit physician led clinical practice integrated with education and research in a unified multi-campus system.

Interested candidates should send their curriculum vitae, bibliography, and the names of three individuals who will write strong letters of support to:

**David I. Smith, Ph.D.
Mayo Clinic Cancer Center
Professor, Director of the Cancer Genetics Program
Experimental Pathology
200 First St. SW
Rochester, MN, 55905**

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Nucleic Acid Biochemist/Biophysical Chemist - Assay Development

Lead a team developing novel HTS formats and executing new drug screens against RNA targets employing our proprietary high throughput assay technologies. You will need facility with fluorescence-based assays and RNA biochemistry. Experience characterizing RNA and RNA-ligand interactions is required. Familiarity with protein biochemistry and high throughput screening is desirable. Ideally, you will hold a Ph.D. in biochemistry or biophysical chemistry and have at least five years of relevant laboratory experience in RNA biophysical chemistry. Very strong candidates without postdoctoral experience will be considered. Job Code: BioChem01

Protein Biochemist - Assay Development

Be a leader and innovator in a highly collaborative interdisciplinary drug discovery program. Create, establish and execute novel high throughput assays and assist in the elaboration of drug candidates. This position requires experience in assay development; ability to troubleshoot novel strategies and technologies; fluorescent assay development experience and a solid foundation in protein biochemistry. Protein-folding and/or high throughput screening experience is desirable. Ideally, you will have a Ph.D. in biochemistry or a related discipline with at least five years of laboratory experience in biochemical methods. Job Code: BioChem02

Biochemist - Assay Development

Work as a member of a highly collaborative interdisciplinary drug discovery team. Create, establish and execute novel high throughput assays and assist in the elaboration of drug candidates. This position requires experience in assay development and the ability to troubleshoot novel strategies and technologies. Fluorescent assay development experience is highly desirable and a solid foundation in protein biochemistry is a must. Candidates at all degree levels will be considered. Previous experience in high throughput screening is a plus. Most important is an exceptional scientist having a keen sense of discovery and exhibiting meticulous attention to detail. Job Code: BioChem03

Molecular Biologist - Virology

Play a key role in the development and implementation of cell-based virus replication models and antiviral assays as well as in mechanism of drug action studies. Provide leadership to other scientists. Position requires Ph.D. in molecular biology or related field, at least a year of postdoctoral experience, expertise in general molecular biology techniques, including tissue culture, plus a strong record of research achievements in one of the following fields: virology, drug discovery or molecular biology. Experience with flaviviruses or hepadnaviruses helpful. Job Code: VB01

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Human Resources, Scriptgen Pharmaceuticals, Inc.

*610 Lincoln Street
Waltham, MA 02451-2186.*

Fax: (781) 768-0040.

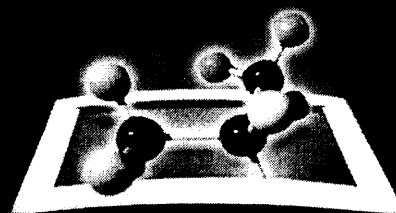
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Parke-Davis, a Division of Warner-Lambert Company, is devoted to discovering, developing, manufacturing, and marketing quality pharmaceutical products. Through the work of the finest scientific talent and dedication, we have demonstrated an excellent record of innovation through the use of great science to discover drugs for unmet medical needs. Currently, we have the following immediate opportunity available at our Ann Arbor, MI facility in the Radiochemistry Laboratories for a senior scientist:

SYNTHETIC RADIOCHEMIST JOB CODE: HS/00-0083SC

The successful candidate will design and conduct multistep synthesis, purification, and analysis of radiolabeled and stable-labeled compounds for pharmacokinetics/metabolism and pharmacology studies to help advance discovery and development of new lead compounds. The candidate would also develop novel methods for fast tritiation and synthetic methodology for site specific tritiation if desired.

Aspiring candidates should have a Ph.D. in synthetic organic chemistry. Experience in radiosynthesis with carbon-14 or tritiation with tritium is highly desirable. Excellent communications, interpersonal skills, and a strong desire to support and work with interdepartmental project teams are essential.

SCIENTIST/SR. SCIENTIST HS/00-0453SC

Successful candidate will design, carryout and evaluate data from laboratory studies to develop expert knowledge in support of pharmaceutical development projects. Other responsibilities include IND, NDA and MAA filings for 1-3 drug product analytical R&D projects; ensure that cGMP, ICH and regulatory agency standards are met on assigned projects; participate in the initiation and execution of drug product and method research evaluations; assist in the preparation and editorial review of technical documentation and present work to project team and management audiences.

Requirements include a Ph.D. in Chemistry or a pharmaceutical science with 0-4 years' industrial experience in the analysis of new drug products; BS with 8-12 years' experience; or MS plus 5-8 years' experience. Candidate should have demonstrated knowledge of state of the art analytical methods used to characterize solid oral and parenteral drug products and the ability to apply understanding of drug product chemistry and matrices to the development and evaluation of testing procedures for regulatory submissions. The ability to multi-task and meet strict deadlines as well as outstanding communication skills are required.

We offer an excellent compensation package and a positive environment that encourages continuous learning and growth. Qualified candidates, please mail, fax or e-mail your resume, indicating JOB CODE, to: Parke-Davis, 2800 Plymouth Road, Ann Arbor, MI 48105. Fax: (734) 622-7617. E-mail: HumanResources.resume@wl.com. Equal opportunity employer in action. Smoke-free work environment.



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c e r e s

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*MS or BA/BS degree in Biology or Microbiology,
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Molecular Biologists

Candidates should have experience in one or more of the following areas: PCR, molecular cloning, gene expression profiling, DNA sequencing. Experience with computer data analyses and automation are also desirable.

Plant Biologists

Candidates should have knowledge of plant biology, genetics, and experience with biological screens, plant transformation, plant tissue culture, or microscopy.

Culture Collection

Candidates should have minimum of 2 years' experience in the collection/maintenance/organization of bacterial culture or other forms of biological materials. Also must have experience with computer data analysis programs.

Tissue Culture and Transformation

Experience in tissue culture and transformation of crops. Experience in DNA manipulation is preferred but not required.

Successful applicants will be responsible for the application of molecular-genetic technologies toward defined goals and will have the desire and energy to develop new methods in a dynamic, innovative environment.

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E-mail: CERES-HR@ceres-inc.com, FAX: (310) 317-8997

University of California – San Francisco, Department of Surgery

The University of California – San Francisco (UCSF) Department of Surgery - Division of Vascular Surgery and the Cardiovascular Research Institute at UCSF seek a Director for the newly funded Pacific Vascular Research Laboratory. A joint appointment at the Assistant or Associate Professor in Residence level in the Department of Surgery, an appropriate basic science department, and the Cardiovascular Research Institute will be provided, as will membership in UCSF's Biomedical Sciences Graduate Program. The Director of this laboratory will be expected to develop and lead an outstanding basic and/or translational research program in angiogenesis or other aspects of vascular biology relevant to vascular disease. Possible topics include but are not limited to fundamental mechanisms of angiogenesis during embryonic development and in response to ischemia and inflammation as well as the study of relevant genetics and signaling mechanisms. The Director will also stimulate and guide the interaction of basic and clinical scientists, and provide mentoring of students and postdoctoral and clinical fellows. Applicants should possess either a Ph.D. or M.D. Applicants at the Associate level will have already established leading programs in their fields. Send curriculum vitae to:

Shaun R. Coughlin, M.D., Ph.D.
PVRL Search Committee
c/o Louis M. Messina, M.D., Chief,
Division of Vascular Surgery
505 Parnassus Avenue, Box 0222
San Francisco, CA 94143-0222

Position will be open until July 31, 2000. The University of California, San Francisco is an Equal Opportunity/Affirmative Action Employer. The University undertakes Affirmative Action to assure Equal Employment opportunities for underutilized minorities and women, for persons with disabilities, and for Vietnam-era veterans and special disabled veterans.

nature biotechnology

seeks a FEATURES EDITOR

Nature Biotechnology is the premier journal for biotechnology research, providing the scientific community with a one-stop digest of the regulatory, financial, ethical, and societal implications of that research. This is an exciting opportunity to contribute directly to the ongoing development of this influential journal.

The Features Editor will be involved in the planning, commissioning, and editing of feature articles, but should be willing to contribute to many other parts of the journal. Close contacts and familiarity with the biotechnology field are essential, together with a strong interest in the business and financial aspects surrounding biotechnology research. The Features Editor will be expected to travel to international meetings and conferences and maintain a close relationship with the biotechnology community.

Based in our growing New York City office, the successful applicant will join a large and dynamic editorial and publishing team responsible for *Nature Genetics*, *Nature Structural Biology*, *Nature Medicine*, *Nature Immunology*, *Nature Neuroscience* and *Nature Biotechnology*, which enjoy a close working relationship with the London-based *Nature* and *Nature Cell Biology* teams. The atmosphere is hard working, fast-paced and friendly.

Applicants should have a strong background in journalism and writing either as a freelancer and/or coordinating the editorial content of biotechnology publications. A broad understanding of, and interest in, the field, excellent literary skills, an enthusiasm for and commitment to the communication of science, and an appreciation of the history and evolution of molecular biology into biotechnology.

To apply, please submit a CV (including current salary), a summary of recent clippings, an outline for a feature article on an exciting recent development in any area of biotechnology, a criticism of *Nature Biotechnology's* current feature section, and three ideas for future features to The Editor **no later than June 1.**

Andrew Marshall, PhD, The Editor, *Nature Biotechnology*, 345 Park Avenue South, 10th Floor, New York City, NY 10010, USA, biotechnology@natureny.com

Announcement for Research Scientist Position VA Ann Arbor Healthcare System/University of Michigan Department of Psychiatry

The Psychiatry Service at the VA Ann Arbor Healthcare System, a Dean's Committee affiliate of the University of Michigan, is recruiting for a position at the rank of Assistant Research Scientist level or above. This is an exciting opportunity for a qualified candidate with a doctorate in an area relevant to mental health, including psychology, neuroscience and cognitive neuroscience, clinical pharmacology, genetics, epidemiology, and related fields. The candidate will join a service with multiple research groups that are actively studying the neurobiology and treatment of chronic mental illness. The successful candidate will be expected to establish an independent research program in the area of chronic mental illness, preferably dual diagnosis disorders, and also will be encouraged to develop collaborations with established research programs. Applicants should have a record of publication in peer-reviewed journals and demonstrate likely potential for independent extramural funding. Salary support is available for the first 3 years of this position, with the expectation that the candidate will obtain salary support through research grant funding by the end of that time. The VA Ann Arbor Healthcare System and the Department of Psychiatry of the University of Michigan provide a rich academic environment with opportunities for collaborations in neuroscience, in vivo brain imaging, molecular biology and genetics, cognitive neuroscience, as well as active research programs in affective disorders, schizophrenia, stress and anxiety, substance abuse, and health services research. Ann Arbor is also the site for the Seriously Mentally Ill Treatment Research and Educational Core (SMITREC), a health services research group, with strong links to the Ann Arbor VA Psychiatry service. This is a federal government position. U.S. citizenship is required. To apply, please send your CV to:

James H. Meador-Woodruff, M.D.
Chair, Search Committee
Mental Health Research Institute
University of Michigan
205 Zina Pitcher Place
Ann Arbor, MI 48109-0720

United States Food and Drug Administration, Center for Veterinary Medicine (CVM), Office of New Animal Drug Evaluation (ONADE), Rockville, MD is seeking candidates to fill three senior level positions: Deputy Director, ONADE; Deputy Director for Science Policy; and Senior Advisor for Risk Assessment.

CVM, ONADE evaluates new animal drugs for safety and effectiveness and, on the basis of such evaluation, approves or refuses to approve the use of a new animal drug for proposed intended uses and conditions of use. These positions may be filled in the fields of Biology, Microbiology, Pharmacology, Chemistry, Toxicology, or Animal Scientist. The salary range is \$84,638 - \$110,028 for GS-15, \$80,658 - \$151,800 for SBRS. All vacancies close on July 21, 2000.

The Deputy Director, ONADE serves as the technical expert and advisor in management and administration and in efficient use of resources; advises the Director in the planning and execution of the budget and in the setting of performance goals; participates in planning, managing, organizing, and directing the regulatory review operations. Status candidates apply to FDA-0-4022 for Interdisciplinary Scientist and FDA-0-4025 for Veterinary Medical Officer. Non-status candidates apply to FDA-0-0132 for Interdisciplinary Scientist and FDA-0-0131 for Veterinary Medical Officer.

The Deputy Director for Science Policy, for ONADE is responsible for developing scientific policy with respect to the new animal drug approval process; coordinating, evaluating, and improving the Agency policy on new animal drugs with respect to human food safety and target animal safety and effectiveness standards. Provides authoritative advice and information on scientific evaluation of new animal drugs. Status candidates apply to FDA-0-4023 Interdisciplinary Scientist and FDA-0-4024 for Veterinary Medical Officer. Non-status candidates apply to FDA-0-0134 for Interdisciplinary Scientist and FDA-0-0133 for Veterinary Medical Officer. This position is also open through the Senior Biomedical Research Service (SBRS), vacancy #FDA-00-2-RS, and requires a doctoral degree.

The Senior Advisor for Risk Assessment, ONADE serves as the Center's Strategic Manager for Risk Assessment Policy. Provides leadership in the development and coordination of risk assessment policy involving the implementation of broad scale risk-based initiatives, including antimicrobial resistance and other potential health hazard issues. Serves as Project Manager for Risk Assessment policy, and leads and coordinates efforts to implement the Center's strategic initiative for a Risk-based Food Safety Program. Develops risk assessment models and initiates and directs studies to collect risk assessment data. Status candidates apply to FDA-04019-Veterinary Medical Officer, FDA-04018, Interdisciplinary Scientist, FDA-04017-Mathematical Statistician. Non-status candidates apply to FDA-0-0112 Veterinary Medical Officer, FDA-0-0111-Interdisciplinary Scientist, FDA-0-0118-Mathematical Statistician.

Graduates of foreign colleges/universities must provide proof of U.S. education equivalency certification. U.S. Citizenship required. All positions are permanent Career or Career-Conditional Appointments and open to All Sources, i.e., status and non-status candidates.

To receive a faxed copy of any of these announcements, call FAXBACK at (301) 827-4287. For further information on General Schedule positions, contact Sharon Chartos at (301) 827-1593; for Senior Biomedical Research Service positions, please contact John Anderson at (301) 827-4179. All vacancy announcements can be viewed on the Internet at <http://www.usajobs.opm.gov/a9.htm>.

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DNX Transgenic Sciences, a business unit of Phoenix International now MDS Pharma Services and a recognized leader in global drug discovery and development, is offering various career opportunities at their new expanded facility in Cranbury, NJ.

CAREER OPPORTUNITIES JUST GOT BETTER!

Director, Business Development

Qualified candidates should have a Ph.D. and a few years of experience in an appropriate discipline such as transgenic/genomic sciences with a keen business sense. Excellent interpersonal, communication and negotiating skills are essential. Ability to travel frequently is required. Responsibilities include identifying clients' needs, developing contacts, establishing research scope and providing services to clients in the pharmaceutical and biotechnology industry.

Research Associate/Microinjectionist

Qualified candidates should have a B.Sc. in Biology or related scientific discipline with 3 to 5 years of experience in a core transgenic facility. Extensive experience and proficiency required in pronuclear microinjection and blastocyst injection for the generation of transgenic and gene-targeted animals. Excellent computer and communication skills are required.

Research Associate/Molecular Biology

Qualified candidates should have a B.Sc. and/or M.Sc. in Biology with 3+ years of molecular biology experience. We are seeking persons to work in the Molecular Biology Group supporting transgenic and gene-targeting projects. Responsibilities will include screening BAC libraries, isolating and mapping genes from genomic DNA, preparing gene-targeting and transgenic vectors, and analyzing expression from the resulting genetically engineered mice and rats. Ability to work independently in a group environment is essential.

Assistant Director of Transgenic Production

Qualified candidates should have a Ph.D. in molecular biology, animal science or a related discipline with 5+ years of experience in transgenic sciences. Responsibilities include managing core transgenic animal operations including animal husbandry, gene transfer and genotyping activities. This position requires strong supervisory and management skills in an industrial setting.

DNX offers an excellent work environment with a competitive benefit and compensation package. Please submit your resume to DNX Transgenic Sciences, attn of Employee Recruiting, 5, Cedar Brook Drive, Cranbury, NJ 08510; by fax at (609) 860-8515; by email at emp_recruit@pils.com

Only selected candidates will be contacted.

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POSITIONS OPEN

The University of Missouri-Kansas City School of Dentistry is seeking nominations and applications for the endowed Lefkowitz **PROFESSORSHIP** in Oral Biology/Biological Materials. The endowed Professorship has been created to add a nationally eminent scholar and teacher to the School's faculty. This professor will provide senior leadership in the department and develop an extramurally funded research program in the fields of tissue reconstruction and engineering. This Professorship was established to honor Dr. William Lefkowitz, a distinguished alumnus of the school. It is part of a universitywide effort to create a significant number of prestigious positions and bring to Missouri and the University worldclass faculty in all of our schools and colleges. Strong preference will be given to applicants with demonstrated research accomplishments in tissue engineering and to applicants who will assume a leadership role in the expansion of advanced materials research at our school. The successful candidate must have earned a Doctorate in engineering or a physical science with a materials emphasis. Additional considerations will include experience as a faculty member, strong evidence of scholarly activity, and a national reputation in tissue reconstruction/engineering research. Salary, benefits, and research support will be competitive with other prestigious endowed professorships nationally. Nominations and applications should be sent to: **Harvey C. Eplee, D.D.S., University of Missouri-Kansas City School of Dentistry, 650 East 25th Street, Kansas City, MO 64108.** Please include a full résumé and the names, addresses, and telephone numbers of three references. *The University of Missouri-Kansas City is an Equal Employment Opportunity/Affirmative Action Employer.*

RESEARCH FACULTY POSITION

The Department of Psychiatry and Behavioral Sciences at the University of Texas Medical Branch (UTMB-Galveston) seeks an outstanding candidate for a full-time, tenure-track Ph.D. faculty position at the **ASSISTANT/ASSOCIATE PROFESSOR** level.

Candidates with an extramurally funded research program in neuroendocrinology and able to bridge ongoing basic and clinical research in the Department are particularly encouraged to apply. A competitive start-up package, salary commensurate with experience, and newly renovated space are available. The University has a broad range of expanding biomedical research programs with an emphasis in neuroscience. A secondary appointment in an appropriate basic science department graduate program may also be available.

Candidates with interest and skills in this area should send curriculum vitae and cover letter including names of three individuals willing to provide letters of recommendation to: **Eric M. Smith, Ph.D., Chair, Search Committee, University of Texas Medical Branch, Department of Psychiatry and Behavioral Sciences, Route 0188, Galveston, TX 77555-0431.**

TWO TENURE-TRACK ASSISTANT/ASSOCIATE PROFESSORSHIPS

The Department of Bioscience and Biotechnology is searching for two tenure-track faculty. We seek cell biologists who use molecular and/or biochemical/biophysical methods to study cellular, physiological, or nutritional processes. Preference will be given to candidates whose research interests complement and support those of the current Departmental faculty (described at [website: www.sciences.drexel.edu/biology/dept/biopage.htm](http://www.sciences.drexel.edu/biology/dept/biopage.htm)). Candidates must have a strong commitment to both research and teaching. Consideration of applications begins immediately and will continue until the positions are filled. We anticipate interviewing candidates starting June 26, 2000. Applicants should submit curriculum vitae, statement of research and teaching interests, and names of three references to: **Faculty Search, Department of Bioscience and Biotechnology, Drexel University, Philadelphia, PA 19104. Telephone: 215-895-2623; FAX: 215-895-1273; e-mail: mike.oconnor@drexel.edu.** *Drexel is an Equal Opportunity Employer.*

POSITIONS OPEN

SENIOR TOXICOLOGIST OPEN EXAMINATION

The Department of Pesticide Regulation in the California Environmental Protection Agency seeks Senior Toxicologists. Openings exist in Sacramento, California. Persons in this position will supervise a group of toxicologists and other scientists and perform the most difficult evaluations and assessments related to human health. Persons experienced in conducting human pesticide exposure assessments, evaluating toxicological or exposure studies, or preparing risk assessments are encouraged to apply. To qualify, persons must hold a Doctoral degree in toxicology or closely related field (e.g., public health, bio- or environmental chemistry, pharmacology, or physiology) and a minimum of four years of relevant postdoctorate experience, which must include the interpretation of toxicological findings relative to probable human health or environmental hazards and one year developing and designing toxicological research and investigative studies. The salary range is \$5,755 to \$6,957 per month. A comprehensive benefits package is available, which may include limited payment of relocation expenses. Submit application and résumé to the address below by the final filing date of June 30, 2000. This position requires an oral examination, which may be scheduled in August/September 2000. For a copy of the examination bulletin and state application form, visit the California State Personnel Board's [websites: www.spb.ca.gov/jobsrd.cfm](http://www.spb.ca.gov/jobsrd.cfm) and www.spb.ca.gov/bulletinsrd.cfm or call the Department of Pesticide Regulation Job/Examination line at **Telephone: 916-323-0547.**

**Department of Pesticide Regulation
Human Resources Branch
830 K Street, Room L1
Sacramento, CA 95814-3510
Attention: Linda Sarabia**

POSTDOCTORAL AND RESEARCH FACULTY POSITIONS in Lymphocyte-Mediated Cytotoxicity and Effects of Stress on Immunity

Two **POSTDOCTORAL FELLOWSHIPS** and a **RESEARCH FACULTY POSITION** to research the molecular biochemistry and immunology of T and NK cell-mediated cytotoxicity, including granzyme serine proteases, dipeptidyl peptidase 1, and perform in the laboratory of **Dorothy Hudig, Ph.D.** Other research areas include transplantation rejection and immune responses under environmental stress. Required experience includes Ph.D. or equivalent degree and first-authored publications in English language journals. Training in immunology, molecular biology, protein chemistry, enzymology, and cell biology preferred. Send letter of application, curriculum vitae, and three names and addresses of personal references to: **D. Hudig, Ph.D., Search Committee Chair, c/o Mrs. Jan Amesbury, Department of Microbiology/320, School of Medicine, University of Nevada/Reno, Reno, NV 89557-0046.** Application review will begin June 13, 2000. *Affirmative Action/Equal Opportunity Employer.*

The University of North Dakota School of Medicine and Health Sciences is interested in recruiting two **RESEARCH INSTRUCTORS** of pharmacology with expertise in genes associated with Parkinson's disease and in the expression of α -synuclein, parkin, and ubiquitin carboxy-terminal hydroxylase. Additional experiences in mitochondrial complex I, biochemistry of coenzyme Q₁₀, and stem cell technology will be helpful. Applicants should submit updated curriculum vitae, three letters of recommendation, and a detailed letter stating goals and aspirations and past accomplishments in research by Federal Express (no e-mail) to: **Manuchair Ebadi, Ph.D., Professor and Chairman, Department of Pharmacology, Physiology, and Therapeutics, Professor of Neuroscience, Associate Dean for Research and Program Development, University of North Dakota School of Medicine and Health Sciences, 501 North Columbia Road, Grand Forks, ND 58203.**

POSITIONS OPEN

STAFF TOXICOLOGIST (SPECIALIST) OPEN EXAMINATION

The Department of Pesticide Regulation in the California Environmental Protection Agency seeks Staff Toxicologists. Several openings exist in Sacramento, California. Persons experienced in conducting human pesticide exposure assessments, evaluating toxicological or exposure studies, or preparing risk assessments are encouraged to apply. To qualify, persons must hold a Doctoral degree in toxicology or closely related field (e.g., public health, bio- or environmental chemistry, pharmacology, or physiology) and a minimum of three years of relevant postdoctorate experience, which must include the interpretation of toxicological findings relative to probable human health or environmental hazards and one year of experience developing and designing toxicological research and investigative studies. The current salary range is \$5,480 to \$6,629 per month. A comprehensive benefits package is available, which may include limited payment of relocation expenses. Submit application and résumé to the address below by the final filing date of June 30, 2000. This position requires an oral examination, which may be scheduled in August/September 2000. For a copy of the examination bulletin and state application form, visit the California State Personnel Board's [websites: www.spb.ca.gov/jobsrd.cfm](http://www.spb.ca.gov/jobsrd.cfm) and www.spb.ca.gov/bulletinsrd.cfm or call the Department of Pesticide Regulation Job/Examination line at **Telephone: 916-323-0547.**

**Department of Pesticide Regulation
Human Resources Branch
830 K Street, Room L1
Sacramento, CA 95814-3510
Attention: Linda Sarabia**

ASSISTANT PROFESSOR VIROLOGIST UNIVERSITY OF TEXAS AT EL PASO

University of Texas at El Paso's Department of Biological Sciences, the Border Biomedical Research Center, and the Pathobiology Doctoral Program seek to fill a tenure-track position with an applicant who has a research focus in human viral pathogenesis. Candidates should have a Ph.D., have postdoctoral experience, and a record of research productivity that demonstrates the potential to establish an externally funded research program. Salary and start-up funds are competitive. The Department has excellent molecular biology and EM/confocal microscope research facilities and a tissue culture facility. Applicants should also have a strong commitment to teaching at both the undergraduate and graduate level. Submit letter of application, résumé, a statement of research interests, selected publications, and a list of three references (names, addresses, telephone numbers and e-mail addresses) to: **Dr. Siddhartha Das, Search Committee Chair, University of Texas at El Paso, Department of Biological Sciences, El Paso, TX 79968-0519.** *The University does not discriminate on the basis of race, color, national origin, sex, religion, age, disability, or sexual orientation in employment or the provision of services.*

UCLA's Jonsson Comprehensive Cancer Center is seeking to recruit a Physician-Scientist who has a fundamental interest in novel cancer therapeutics and the intention and ability to lead a broad-based experimental therapeutics program at UCLA. The position will assume extensive laboratory experience and a proven ability to obtain peer-reviewed grant support. The position will be at the rank of **ASSOCIATE PROFESSOR**, with appointments in the appropriate clinical and basic science departments. The appointment will include an endowed chair as well as a significant start-up package. Interested candidates are invited to submit curriculum vitae and three references to:

**Search Committee (Attention: SiUn Cha)
Jonsson Comprehensive Cancer Center
Box 951781, UCLA School of Medicine
Los Angeles, CA 90095-1781**

UCLA is an Affirmative Action/Equal Opportunity Employer.

**National Cancer Institute
Division of Clinical Sciences
Radiation Oncology Sciences Program
Radiation Oncology Branch – Clinical Investigator**

The Radiation Oncology Branch (ROB) of the Radiation Oncology Sciences Program (ROSP) of the National Cancer Institute, National Institutes of Health, is accepting applications from candidates for a tenure track investigator clinician. This is a unique opportunity in assisting the ROB develop new areas of clinical and translational research in radiation therapy, radiation physics, radiation biology, radioimmunology and molecular and cell biology. This position involves clinical care, clinical and laboratory studies, training residents/fellows and working effectively in a team environment. We are seeking an individual committed to advancing the research and clinical programs of the field of radiation oncology. Individuals who are soon to complete training or who are currently junior faculty are encouraged to apply. Research opportunities will be in collaboration with basic scientists in the ROB or Radiation Biology Branch, which, along with the Radiation Research Program, comprise ROSP.

This position has an annual salary commensurate with the applicant's qualifications. All applications should include the following: a letter expressing interest in the position; a statement of research and clinical interests; a career synopsis and brief bibliography; a current curriculum vitae including complete bibliography; and the names and addresses of five references. A list of the requirements or additional information about the position may be obtained by contacting Nancy Kesteven at the address listed below. To ensure full consideration, applications must be completed by **June 30, 2000**.

Applications should be sent to:

**Ms. Nancy Kesteven
Building 10, Rm B3B69
National Cancer Institute
National Institutes of Health
9000 Rockville Pike
Bethesda, MD 20892-1002
Telephone: (301) 496-5457
Fax: (301) 480-5439**

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

**MAYO CLINIC
Director of Research Computing Facility**

The Mayo Clinic in Rochester, Minnesota (<http://www.mayo.edu>) is seeking a Director of its Research Computing Facility. The Research Computing Facility (RCF) (<http://www.mayo.edu/research/ref>) is a highly prized core component of the Mayo Clinic research infrastructure that provides information technology services to the diverse Mayo research community. The 25 members of the RCF staff collaborate with approximately 500 career scientists and clinicians actively engaged in research and interact with the larger Information Technology group that supports foundation-wide computing. The Director is expected to provide leadership in formulating strategic planning initiatives for information technology applied to research with a strong focus on informatics related to biological and medical information. The plethora of available biological and medical data requires the integration of computing with research experimentation. Informatics support is vital to scientists and physicians in order to "visualize" their data and compare it with genomic, structural, and literature information. The ideal RCF director will be a visionary with considerable current knowledge of computer technology (hardware and software), web development, informatics, as well as genomics and biology. The Director must also be a proven leader and manager, with excellent skills in organization and budgeting, as well as a demonstrated appreciation for the importance of customer service in a research environment. A capacity to communicate and work effectively with research staff and senior administration is essential. This is a full time professional position with a competitive compensation and benefits package.

The Mayo Clinic is located in Rochester, Minnesota (<http://www.rochesterusa.com>), approximately an hour from the Minnesota/St. Paul metropolitan area. Rochester has excellent schools, a cosmopolitan cultural atmosphere, growing economy, clean environment, and has been rated one of the best places to live in the USA by Money Magazine.

Candidates should have a Ph.D. in Computer Science, Bioinformatics, Computational Biology, or a closely aligned quantitative science, with significant professional experience in management and leadership in a research or clinical environment, as well as demonstrated knowledge of technological advancements. Applications will be accepted until the position is filled, but preference will be given to applications received by May 31, 2000. Potential applicants for this position should submit a cover letter expressing their interest and qualifications, their curriculum vitae or resume and three letters of recommendation to:

**Daniel J. Schaid, Ph.D., Chair, RCF Director Search Committee
Harwick 7
Mayo Clinic
200 First Street SW
Rochester, MN 55905**

E-mail: schaid@mayo.edu Fax: (507) 284-9542

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

POSITIONS OPEN

PLANT MOLECULAR BIOLOGY MCGILL UNIVERSITY DEPARTMENT OF BIOLOGY

The Department of Biology at McGill University invites applications for a tenure-track position at the **ASSISTANT, ASSOCIATE or FULL PROFESSOR** level in the area of plant molecular biology. Applicants should have a Ph.D. degree and post-doctoral experience and have demonstrated research excellence.

The successful applicant will join a large and dynamic Department with research strengths in cellular, molecular, and developmental biology; and ecology, evolution, and neurobiology; with extensive affiliations with the Faculty of Medicine and local research institutes. Additional information on the Department is available at [website: http://www.mcgill.ca/Biology/biology1.htm](http://www.mcgill.ca/Biology/biology1.htm). Duties will involve the development of a vigorous research program and teaching at the undergraduate and graduate level.

Applications, including curriculum vitae, a statement of research interests, and three letters of reference, should be sent to: **Ms. Louise Sabaz, Chair's Secretary, Department of Biology, McGill University, 1205 Docteur Penfield Avenue, Montreal, Quebec H3A 1B1 Canada. E-mail: LOUISE@BIO1.Lan.McGILL.CA.** The deadline for applications is July 15, 2000. *In accordance with Canadian immigration requirements, this advertisement is directed in the first instance to Canadian citizens and permanent residents. McGill University is committed to Equity in Employment.*

THE UNIVERSITY OF MINNESOTA

The Division of Endocrinology and Diabetes in the Department of Medicine at the University of Minnesota is searching for a tenured or tenure-track Physician-Scientist at the **ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR, or PROFESSOR** level depending upon qualifications. The individual should have a demonstrated research record of excellence in the area of diabetes with evidence of ability to collaborate with both clinical and basic scientists. This individual will be considered for the Pennock Chair in Diabetes Research. The individual will also provide care for patients with diabetes and/or other endocrine diseases and will also have a major role in teaching endocrine Fellows, medicine residents, and medical students. Essential qualifications include: M.D. or equivalent; Board-certified in internal medicine, Board-eligible or Board-certified in endocrinology and metabolism. Interested candidates should send a letter and curriculum vitae to: **Search Committee Chair, Dr. Cary Mariash, Box 101 Mayo, 420 Delaware Street S.E., Minneapolis, MN 55455.** Applications will be reviewed beginning immediately and accepted until position is filled.

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

SENIOR CUSTOMER SUPPORT ENGINEER BIOTECHNOLOGY

Biotechnology Company with Offices in Foster City, California, and Norwalk, Connecticut

Work at various locations in New Jersey and on the East Coast. Responsible for supplying support services to customers through the installation, repair, and maintenance of high-pressure liquid chromatography mass spectrometers and instrumentation at customer sites in New Jersey and on the East Coast. Requires two years of college in electrical engineering or two years of experience in customer support engineering.

SALES ENGINEERS: Work at customer sites in California and Western states or Illinois and Midwestern states; sales and market development for protein analysis instrumentation products.

SCIENTISTS: Work in Foster City, California; research and development for DNA sequencing projects.

Send your résumé to: **PE Corporation, Human Resources Department, 850 Lincoln Centre Drive, Foster City, CA 94404. FAX: 650-638-5874; e-mail: pecorpad@resume.isearch.com. Website: www.pecorporation.com.** *Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITIONS WEILL MEDICAL COLLEGE OF CORNELL UNIVERSITY Department of Pharmacology

Candidates are sought for tenure-track positions at the level of **ASSISTANT PROFESSOR**. Candidates with interests in a wide range of areas related to the disciplines of pharmacology and clinical pharmacology will be considered. The responsibilities of this position include development of an active, independent research program and participation in both medical and graduate student teaching programs in the Department. Applicants should send curriculum vitae, a summary of proposed research, and should arrange to have letters sent from at least three scientists who can evaluate the candidate's accomplishments. Weill Medical College of Cornell University is a part of the New York Presbyterian-Weill Cornell Medical Center and is adjacent to Memorial Sloan Kettering Cancer Center and Rockefeller University. Applications should be sent to: **Chair, Pharmacology Search Committee, Box 70, Pharmacology Department, Weill Medical College, 1300 York Avenue, New York, NY 10021. FAX: 212-746-8858.** *Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.*

JUNIOR FACULTY POSITION HARVARD MEDICAL SCHOOL BRIGHAM AND WOMEN'S HOSPITAL

The Department of Pathology is searching for an **ASSISTANT PROFESSOR** of Pathology (tenure track) to serve in the Neuropathology Division of the Department at Brigham and Women's Hospital. The candidate is expected to establish an independent basic research program focused in neurodegenerative disease and participate in the clinical activities of the Division at Brigham and Women's Hospital and the Children's Hospital of Boston. Qualified M.D., Ph.D., or M.D./Ph.D. candidates (especially women and minorities) with postdoctoral experience and training in neuropathology, preferably with Board eligibility or certification, should send curriculum vitae and summary of research interests and ask three references to submit letters to:

**Tucker Collins, M.D., Ph.D.
Brigham and Women's Hospital
Department of Pathology
221 Longwood Avenue
Boston, MA 02115**

Equal Opportunity/Affirmative Action Employer.

LANDSCAPE ECOLOGIST

The Center for Applied Biodiversity Science at Conservation International seeks a **RESEARCH SCIENTIST** in the areas of tropical landscape ecology and conservation planning. The candidate should expect and desire to work in interdisciplinary research teams and to travel abroad frequently. Ph.D. in related areas and a minimum of three years of research experience required. Compensation will be commensurate with experience. Applications and curricula vitae should be sent to:

**Conservation International
Attention: Landscape Ecologist
2501 M Street, N.W.
Suite 200
Washington, DC 20037**

POSTDOCTORAL POSITION, University of Pennsylvania, to study germline development is available immediately. Studies will combine genetics, molecular biology, and cell biology to investigate the establishment and development of the *Drosophila* germline. Experience in molecular/cell biology is preferred. Send curriculum vitae and names and telephone numbers of three references to: **Dr. T. Jongens, Department of Genetics, University of Pennsylvania, School of Medicine, 709b Stellar-Chance Laboratories, 421 Curie Boulevard, Philadelphia, PA 19104-6100. E-mail: jongens@mail.med.upenn.edu.**

POSITIONS OPEN

FACULTY MEMBER RECRUITMENT CHIEF OPERATING OFFICER HIV VACCINE TRIALS NETWORK (HVTN)

Fred Hutchinson Cancer Research Center in Seattle, Washington, is currently recruiting for an immediate opening as Chief Operating Officer (COO) of a NIAID-supported HIV Vaccine Trials Network (HVTN). This **ASSISTANT/ASSOCIATE FACULTY POSITION** will be a central figure in clinical trial design, central operations, and coordination of clinical trials of HIV vaccines. In addition, this position will be directly responsible for the supervision of six to 12 professional staff persons. The COO will work closely with all the investigators, laboratories, NIAID staff, and companies involved in HIV vaccine development.

The successful candidate will have either an M.D. (Board-eligible/Board-certified) or a Ph.D. with experience as a clinical investigator in HIV medicine or viral vaccines who wants to make an impact on disease prevention. The HVTN will have extensive collaborations with a large group of internationally renowned laboratories and the ability to work with a discretionary fund that allows the network to move into new areas. For someone committed to developing an HIV vaccine, this is a real impact position. The position allows ample time for individual scholarship.

A letter of interest and curriculum vitae may be sent to: **Lawrence Corey, M.D., HVTN Scientific Steering Committee, Chair, Fred Hutchinson Cancer Research Center, P.O. Box 19024, D3-100, Seattle, WA 98109-1024. E-mail: lcorey@fhcrc.org.** Position open until filled.

The Fred Hutchinson Cancer Research Center is an Equal Opportunity Employer.

PSYCHOLOGY/NEUROSCIENCE University of Toronto at Scarborough Division of Life Sciences

The Division of Life Sciences of the University of Toronto at Scarborough invites applications for a position in behavioral neuroscience, neuropsychology, or cognitive neuroscience. The successful applicant will be supported by the Division in applying for a University Faculty Award (UFA) from the Natural Sciences and Engineering Research Council (NSERC) of Canada. NSERC guidelines stipulate that candidates for this award must be aboriginals or women who are Canadian citizens or permanent residents of Canada ([website: http://www.nserc.ca/programs/sf/UFA_e.htm](http://www.nserc.ca/programs/sf/UFA_e.htm)). A tenure-track position at the **ASSISTANT PROFESSOR** level will accompany the successful NSERC UFA and will start on July 1, 2001. Starting salary will be commensurate with qualifications.

Along with curriculum vitae, applicants should send a letter that includes a brief description of their proposed research program and evidence of teaching ability. The application, letters from three references, and copies of recent reprints should be sent to: **Professor John H. Youson, Chair, Search Committee, Division of Life Sciences, University of Toronto at Scarborough, 1265 Military Trail, Scarborough, Ontario M1C 1A4. FAX: 416-287-7676.** The closing date for this competition is August 11, 2000.

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

POSTDOCTORAL POSITIONS are available immediately to study the biochemical and molecular aspects of cell-cell and cell-matrix interactions, as well as signal transduction in leukocytes. A strong background in immunology, molecular, and cellular biology is desirable. Projects include identification and characterization of genes responsible for a novel leukocyte deficiency. Please send curriculum vitae and the names of three references to: **Dr. Li Zhang, Department of Vascular Biology, Holland Laboratory of The American Red Cross, 15601 Crabbs Branch Way, Rockville, MD 20855. FAX: 301-738-0465; e-mail: zhangl@usa.redcross.org.**

**National Cancer Institute
Division of Clinical Sciences
Radiation Oncology Sciences Program
Radiation Oncology Branch – Basic Scientist**

The Radiation Oncology Branch (ROB) of the Radiation Oncology Sciences Program (ROSP) at the National Cancer Institute, National Institutes of Health, is conducting a search for a tenure track Ph.D. investigator to initiate independent research in the molecular and cellular biology of cancer as it relates to the use of ionizing radiation. The Branch is dedicated to the multi-disciplinary care of the cancer patient, allied with an active clinical and a laboratory research effort. We are seeking an imaginative and ambitious individual committed to advancing the research and clinical programs of the field of radiation oncology. This is a unique position allowing the individual to conduct independent research in a team environment of clinicians and scientists dedicated to translating novel and pertinent laboratory findings into clinical trials. The successful candidate will be a member of the ROSP, which also includes the Radiation Biology Branch and Radiation Research Program.

This position has an annual salary commensurate with the applicant's qualifications. All applications should include the following: a letter expressing interest in the position; a statement of research and clinical interests; a career synopsis and brief bibliography; a current curriculum vitae and complete bibliography; and the names and addresses of five references. A list of the requirements or additional information about the position may be obtained by contacting Nancy Kesteven at the address listed below. To ensure full consideration, applications must be completed by **June 30, 2000**.

Applications should be sent to:

**Ms. Nancy Kesteven
Building 10, Rm B3B69
Radiation Oncology Branch
National Cancer Institute
National Institutes of Health
9000 Rockville Pike
Bethesda, MD 20892-1002
Telephone: (301) 496-5457
Fax: (301) 480-5439**

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

**Postdoctoral Position in
Developmental and
Molecular Biology**

A NIH-funded postdoctoral position is immediately available to study different aspects related to the function of the homeobox gene *Prox1* during early mouse development (Nature Gen 21, 318-322 (1999); Cell 98, 769-778 (1999)). Particular emphasis will be given to the roles of this gene during lymphangiogenesis and liver formation. Competitive salary, benefits, and modern research facilities are provided. Candidates who recently obtained a Ph.D. or MD degree with a background in molecular and developmental biology are encouraged to apply. Interested individuals should send their CV, a brief description of their research interests, and the names of three references to:

**Guillermo Oliver, Ph.D.
Department of Genetics
St. Jude Children's Research Hospital
332 North Lauderdale
Memphis, TN 38105
USA
www.stjude.org/departments/oliver.htm
eoe m/f/d/v**

**Health Scientist Administrator
(Biological Sciences)**

GS-601-12/13/14 (\$51,204 - \$93,537)

The Office of Scientific Review of the National Institute of General Medical Sciences, National Institutes of Health in Bethesda, MD is seeking two scientific review administrators to perform a variety of functions associated with the scientific and technical merit review of research and research training support grant award applications. Provide guidance on program guidelines and initiatives, and on policies and procedures of the NIH peer review system. Participate in site visits, attend meetings of study sections and review committees, prepare summary statements of review group findings and recommendations, and attend advisory council meetings to provide information concerning the review of applications.

Qualifications: U.S. Citizenship; Ph.D.; independent work in planning, organizing, and conducting biomedical research; research program administration experience; and demonstrated knowledge of biomedically relevant research and training areas, including cell and molecular biology, pharmacology, and biochemistry, with expertise in at least one area. Ideal candidates also have demonstrated knowledge of bioinformatics and computational biology, or clinically related research.

To obtain complete application requirements by FAX, call (800) 728-JOBS, and request fax ID#3604, or call the NIGMS Personnel Office on (301)594-2749; TDD (301) 402-6327. Applications must be postmarked by the closing date of June 12, 2000. Visit the NIGMS online at www.nigms.nih.gov.

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POSITIONS OPEN

POPULATION GENETICIST

The Department of Animal Science and Fisheries and Wildlife at Michigan State University (MSU) invites applications for a 12-month, tenure-track position in population genetics at the **ASSISTANT PROFESSOR** level. The appointment will be 80% research and 20% teaching. Qualifications include a Ph.D. in genetics, statistics, mathematics, animal breeding or similar discipline and postdoctoral experience, with strong statistical and mathematical foundations in the general area of population genetics. The successful candidate will be expected to develop a strong extramurally supported research program at the interface between statistical/theoretical and molecular genetics, focusing on applications to animal models in domestic/managed and natural populations. Extensive collaboration with empirical animal geneticists and biologists in faculties of both departments is expected. The application deadline is August 1, 2000, or until a suitable candidate is found. Salary is competitive and commensurate with education, experience, and demonstration of ability. Interested persons should submit a letter of application stating professional goals and objectives, statements of research interests and teaching philosophy, curriculum vitae with supporting materials including transcripts, examples of scientific writing, and names of three references to: **Dr. Maynard Hogberg, Chairperson, Department of Animal Science, 1290F Anthony Hall, Michigan State University, East Lansing, MI 48824-1225. Telephone: 517-355-8384; FAX: 517-353-1699; e-mail: hogberg@msu.edu.** Michigan State University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS in macromolecular crystallography and cryoelectron microscopy are available immediately to study the structures and functions of enzymes and ssDNA viruses at: **The University of Florida, Department of Biochemistry and Molecular Biology, Box 100245, Gainesville, FL 32610-0245.** Salary will be commensurate with experience. Interested individuals should contact: **Dr. M. McKenna; Telephone 352-392-5694; FAX: 352-392-3422; e-mail: mckenna@ufl.edu** for more details or send curriculum vitae with details of three references. An Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL POSITIONS available with a multidisciplinary team studying the molecular and cell biology of apoptosis in health and disease states. Ph.D.s or M.D.s with a strong basic research background who are either American citizens or permanent residents should please send their curriculum vitae and reference list to: **Prasad Devarajan, M.D., Associate Professor of Pediatrics, Albert Einstein College of Medicine, 111 East 210th Street, Bronx, NY 10467. FAX: 718-652-3136; e-mail: pdevaraj@acem.yu.edu.**

POSTDOCTORAL POSITION to study stress-related regulation of neural excitability. Molecular biology, patch clamp, and whole animal physiology/behavior used to study tuning of acute response properties of neuroendocrine cells by stress (e.g., *Science* 280:443). Excellent environment to pursue integrative interests in neurobiology and behavior. NIH funded. Send résumé and names of three references to: **David P. McCobb, Department of Neurobiology and Behavior, Cornell University, Ithaca, NY 14850. E-mail: dpm9@cornell.edu.**

POSTDOCTORAL FELLOW INSTRUCTOR

Positions available within a lively group to study a novel transcription factor and vascular function or chromatin role in blood cell development. Please send applications to: **Dr. Katya Ravid, Biochemistry, K225, Boston University School of Medicine, 715 Albany Street, Boston, MA 02118.**

POSITIONS OPEN

BIOINFORMATICS SCIENTIST

InforMax, Inc., is the leading provider of bioinformatics software to both academia and industry. We have an exciting opportunity for a talented scientist to take charge of the scientific validation of our software products. The position requires a Ph.D. in molecular biology or related field plus postdoctoral experience. Desktop and Web-based sequence analysis, UNIX, and Perl programming skills are also necessary. We provide very competitive benefits in a unique cultural environment. For immediate consideration, please send your cover letter and résumé, quoting reference SQA, to:

**InforMax, Inc.
Attention: Dr. Thon de Boer
6010 Executive Boulevard
North Bethesda, MD 20852
E-mail: thon@informaxinc.com
(e-mail preferred)**

FACULTY POSITION IN ENDOCRINE AND METABOLIC RESEARCH Auburn University

The College of Veterinary Medicine of Auburn University invites nominations and applications at the rank of **ASSOCIATE** or **FULL PROFESSOR** in the Department of Anatomy, Physiology, and Pharmacology. The position will be based in the state-of-the-art research facilities of the Scott-Ritchey Research Center. The incumbent will be a visionary and an energetic leader with an outstanding record of research and academic accomplishments in endocrine and metabolic research and will be expected to participate in the direction of professional and graduate students. Applicants whose research emphasizes topics related to diabetes are strongly encouraged to apply. For more information, visit the following website: **www.vetmed.auburn.edu/position16.html.**

Send nominations or applications to: **Joseph S. Janicki, Ph.D., Chairman, Search Committee, 106 Greene Hall, College of Veterinary Medicine, Auburn University, AL 36849-5517.** Applications should include curriculum vitae, statement of research interests, and contact information for at least three references. This ongoing search will continue until a candidate is recommended. Auburn University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL GENE THERAPY FACULTY POSITIONS

We invite candidates with an M.D. or Ph.D. degree who have experience in basic and/or translational research in gene therapy to apply for faculty positions at the level of **ASSISTANT PROFESSOR** in the Division of Gene Therapy, Department of Medicine, University of Massachusetts Medical School/UMass Memorial Medical Center. The goals of this division are to develop innovative gene transfer procedures and applications and to bring new protocols to clinical trial. The selected candidates will join and collaborate with other basic and clinical investigators at the medical school studying viral and nonviral gene transfer approaches for a broad range of clinical disorders. Laboratory space in a new state-of-the-art research building and start-up funds will be provided. Applicants should send curriculum vitae, a letter describing research objectives, and a list of three individuals who can serve as references to:

**Pamela S. Becker, M.D., Ph.D.
Director, Division of Gene Therapy
Department of Medicine
UMass Memorial Medical Center
55 Lake Avenue North, H8-527
Worcester, MA 01655**

UMass Memorial is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL TRAINING IN NEUROENDOCRINOLOGY

POSTDOCTORAL POSITIONS are available in an NIH-funded training program in neuroendocrinology. Individuals interested in multidisciplinary research related to the interactions of hormones, the brain, physiology, and behavior are invited to apply. Candidates will have the opportunity to work with preceptors in the Departments of Biology, Psychology, and Veterinary and Animal Sciences of the University of Massachusetts Amherst or at Smith College, Northampton. Research interests of the preceptors are listed at the Center for Neuroendocrine Studies website: **http://www.umass.edu/cns.** The interdisciplinary character of our training program permits our trainees to work in more than one laboratory. Applicants must be U.S. citizens or permanent residents. Candidates must have a Ph.D. in neuroscience, biology, cellular and molecular biology, physiological psychology, or a related field. Send statement of research interests, curriculum vitae, and three letters of reference to: **Geert J. De Vries, Ph.D., Center for Neuroendocrine Studies, Tobin Hall, Box 37720, University of Massachusetts, Amherst, MA 01003-7720. FAX: 413-545-0993; Telephone: 413-545-0663; e-mail: devries@cns.umass.edu.** Earliest starting date is July 1, 2000. Applications will be accepted until June 16, 2000, or later until the positions are filled. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

POSTDOCTORAL POSITIONS available immediately to investigate molecular, biochemical, and physiological aspects of smooth muscle contraction. Approaches to be used include antisense inhibition of proteins, isolated contractile proteins, detergent and alpha-toxin permeabilized fibers, and intact tissues to examine calcium-dependent regulation of contraction and G-protein-dependent signal transduction pathways, with an emphasis on kinase/phosphatase regulation. Additional projects are available to investigate cytoskeletal and membrane-associated systems involved in the modulation of force output. These studies will be performed on vascular, gastrointestinal, and urinary bladder smooth muscle. Experience in muscle research is desirable. Please send curriculum vitae and names, addresses, and telephone numbers of three references to: **Dr. Robert S. Moreland, Department of Pharmacology and Physiology, MCP Hahnemann University, 2900 Queen Lane, Philadelphia, PA 19129. E-mail: Robert.Moreland@drexel.edu.**

POSTDOCTORAL POSITIONS are available immediately to individuals interested in protein crystallography, protein engineering, transcriptional regulators, and/or membrane proteins. Projects are available in three areas: (1) development of novel detergents for the crystallization of membrane proteins, (2) development of protein engineering methods for the crystallization of proteins, and (3) structure/function studies of BTB/POZ-domain proteins. Candidates must have a Ph.D. with experience in molecular biology and protein biochemistry and a strong interest in protein structure. Send a letter of interest, curriculum vitae, and the names of three references to: **Dr. G. Privé, Ontario Cancer Institute/University of Toronto, 610 University Avenue, Toronto, Ontario M5G 2M9 Canada. E-mail: prive@uhnres.utoronto.ca.**

POSTDOCTORAL POSITION, immunology: Postdoctoral positions available immediately for studies of the molecular mechanisms of T cell lineage commitment; $\gamma\delta$ T cell development; cytokine receptor signaling; T cell costimulation and homeostasis; and the identification of genes involved in T cell development and activation, using high-density oligonucleotide arrays. Applicants should have a Ph.D. or an M.D. and experience in immunology or developmental biology. Send a letter of interest, curriculum vitae, and two references to: **Joonsoo Kang, Ph.D., or Cynthia A. Chambers, Ph.D., Department of Pathology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01655. E-mail: joonsoo.kang@umassmed.edu; cynthia.chambers@umassmed.edu.**

WORKSHOPS

BIOINFORMATICS COMES OF AGE: USING THE GENOME

The pilot Bioinformatics Industrialization Workshop for integration, automation, simulation, quality and standards in the high throughput life sciences. Workshop cosponsored by IBM, The Deep Computing Institute of IBM Research, The Task Force on Bioinformatics of the International Union of Pure and Applied Biophysics, The Whitehead Institute for Biomedical Research, and the U.S. Department of Energy.

June 26-27, 2000

McGovern Auditorium, Whitehead Institute
Cambridge, Massachusetts

(In conjunction with a special meeting of the Inter-Unions Bioinformatics Group, June 28-29 2000, by invitation only)

Spaces are available for a pilot workshop addressing the transformation of bioinformatics and bioinformatics-based drug design into a robust discipline, supporting high-throughput exploration and exploitation of genomic data in industry, government, research institutions and academia. The workshop will emphasize the needs of the post-genomic era and the coupling of genomics and related processes, such as proteomics and protein folding simulation and modeling, plus issues of integration, automation, data mining, and deep computing. Participants will also explore bioinformatics for health care, including pharmaceutical prediction and modeling from genes to drugs and touch on the possible impacts of imminent emergent disciplines such as immunoinformatics and medical bioinformatics.

The meeting of the Inter-Unions Bioinformatics Group, following the workshop, will discuss preliminary recommendations for inter-process and data standards, maintaining the availability and quality of data, and software and internet access to core data on a worldwide basis. Participants in the pilot workshop are encouraged to discuss these issues with members of the Inter-Unions Bioinformatics Group during the preceding Workshop.

An outstanding array of speakers and their themes includes: David Altshuler (Whitehead Institute - Using the Tools of Bioinformatics), Kristian Axelsen (Institut Suisse de Bioinformatique - Swissprot), Helen Berman (Research Collaboratory for Structural Bioinformatics - the new Protein Data Bank), Steve Bryant (National Center for Biotechnology Information - the Entrez database), Renata Bushko (Future of Health Technology Institute - Chairing Session - The Future of Health Care Informatics), Andrea Califano (IBM Computational Biology Center - Pattern Analysis of

Sequences and Expression Arrays), Charles Cantor (Sequenom), Nobuhiro Go (Kyoto University - Protein Modeling), Colin Howard (The Royal Veterinary College, W.H.O., and The Dirac Foundation - Immuno-Informatics), Arthur Lesk (Biological Macromolecules Task Force - CODATA), Michael Levitt (Stanford University - The Post Genomic Challenge), Jin Li (Protherics Molecular Design Ltd. Bioinformatics and Automated Drug Design), John Moulton (Center for Advanced Research in Biotechnology - CASP - Critical Assessment of Structure Prediction), Dennis News/Marc Snir (IBM - the Blue Gene petaflop computer project), Manuel Peitsch (Glaxo-Wellcome - SwissModel), Isidore Rigoutsos (IBM Computational Biology Center - The Emergence of Pattern Discovery Techniques in Computational Biology), Patricia Rodriguez-Tome (European Bioinformatics Institute - the CORBA standard), Chris Sander (Millennium Information Science - Industrial Challenge of Bioinformatics), Harold Scheraga (Cornell University - Automated Protein Modeling and the Multiple Minimum Problem), Temple Smith (Boston University - Gene and Protein function analysis), Bruno Sobral (National Center Genome Resources - The New Computational Challenges of Genomics), Mike Zody (Whitehead Institute - Scalable Bioinformatics for High Throughput Sequencing). Department of Energy guest speaker - to be announced.

The meeting fees are: \$500 for industry representatives, \$250 for participants from academic and not-for-profit institutions. Attendance is limited to 130 people, including speakers. To inquire about participation, please send a letter, Fax or e-mail to one of the individuals listed below. Please do not send money until you have been notified that you have a space. Further details are available at: <http://www.research.ibm.com/dci/meetings.html>

For applicants from the United States:

Barry Robson, c/o Mary Beth Miller, Deep Computing Institute & IBM Computational Biology Center, Rt. 134, Yorktown Heights, NY 10598 USA
Tel: 914-945-2331, Fax: 914-945-3434, mbmiller@us.ibm.com

For applicants outside the United States:

Jean Garnier, c/o Martine Michel, Biologie du Développement, INRA
78352 Jouy en Josas Cedex France
Tel : 01 34 65 25 95, Fax : 01 34 65 26 77, mmichel@biotec.jouy.inra.fr

FELLOWSHIPS



POSTDOCTORAL FELLOWSHIPS

The Human Vaccine Institute at Duke University Medical Center has positions open for postdoctoral fellows to perform innovative research in the areas of lymphocyte development, immune reconstitution and pathogenesis of autoimmune diseases. Start date is September 2000.

The specific senior investigators and the areas of interest that are available for postdoctoral positions include:

Dr. Nelson Chao, Human Stem Cell Biology; Immune Reconstitution

Dr. Barton F. Haynes, HIV Vaccine Development, Immune Reconstitution, Thymus and T Cell Immunobiology

Dr. Gamett Kelsoe, B Cell Development

Dr. Dhaval Patel, Chemokine Biology, Leukocyte Migration

Dr. David Pisetsky, Pathogenesis of Autoimmune Diseases, DNA Adjuvants and Vaccines

Dr. Thomas Tedder, B Cell Biology, Leukocyte Migration

Candidates should send a letter of indicating interest along with a current curriculum vitae and have three reference letters sent to: **Barton F. Haynes, M.D., Human Vaccine Institute, Box 3258, Duke University Medical Center, Durham, NC 27710**

hr.duke.edu

Duke University
Medical Center

Duke University Is An Equal Opportunity/Affirmative Action Employer

ANNOUNCEMENTS

New Funding Opportunities for Dystonia Research

The Dystonia Medical Research Foundation is initiating new funding opportunities for dystonia research. The recent identification of a common mutation in the DYT1 gene, which encodes the novel protein TorsinA, provides the first molecular entry into understanding the pathogenesis of primary, early-onset dystonia. Research grants are being sought to develop important tools for DYT1 dystonia research; these include cell culture models of DYT1 dystonia; genetic animal models of DYT1 dystonia, including transgenic and knock-in/knock-out mice, Drosophila, C. elegans, and Zebrafish models. In addition, a new contract funding mechanism is being initiated to support the development of both antibodies to TorsinA and the related TorsinB, and pure recombinant TorsinA protein.

Contract applications will be reviewed each year on a 6-month rolling basis with the first deadline of June 30; the 2nd deadline of December 30. Grant applications for highly relevant dystonia research will be accepted by June 30 for review. **Funding for research grants will be \$40,000 for one-year pilot studies, and up to \$75,000 per year for up to 2 years for other research grants. Applications will also be considered for larger projects, with funding up to \$150,000 per year.**

Please submit a letter of intent for both contract and research grant applications to the Scientific Director at:

Dystonia Medical Research Foundation

One East Wacker Drive, Suite 2430, Chicago, IL 60601

Phone: 312-755-0198 • Fax: 312-803-0138

E-mail: dystonia@dystonia-foundation.org

POSITIONS OPEN

SOIL SCIENTIST/ RESEARCH HYDROLOGIST/ AGRICULTURAL ENGINEER

U.S. Department of Agriculture (USDA); Research, Education, and Extension; Agricultural Research Service; Northern Plains Agricultural Research Laboratory; Agricultural Systems Research Unit in Sidney, Montana, is seeking a permanent, full-time **RESEARCH SCIENTIST** with demonstrated expertise in agricultural engineering, research hydrology, or soil science to serve as research leader. The incumbent will be responsible for all aspects of the unit's management including developing interdisciplinary teams and partnerships to address complex agricultural issues; developing and implementing sustainable natural resource management practices and diversified agricultural systems that promote water use efficiency, soil and water quality, and reduce the negative impacts of plant pests and agrochemicals on the environment; and interaction with USDA administrators and cooperators in universities and industry. The incumbent plans, conducts, and reports personal research addressing chemical and irrigation management strategies that improve soil and water quality by reducing erosion and chemical losses to surface and ground waters. U.S. citizenship and a Ph.D. or equivalent are required. Salary commensurate with experience (\$70,457 to \$107,738 per annum). Comprehensive benefits package including paid sick and annual leave, life and health insurance, and a savings and investment plan (401[k] type) are available in addition to the federal retirement plan. For information on the research program and/or position, contact: **Dr. Will Blackburn**; Telephone: 970-229-5557; e-mail: blackbuw@npa.ars.usda.gov. Additional information about the position and application procedures can be obtained via the REE website: www.ars.usda.gov/afm/hrd/resjobs. *USDA/ARS is an Equal Opportunity Provider and Employer.*

FACULTY POSITION IN EVOLUTIONARY GENOMICS

The Ecology and Evolution Department at The University of Chicago invites applications for a faculty position (rank open) in the areas of experimental and computational genomics. This position is part of an initiative throughout the Division of Biological Sciences and the Departments of Statistics and Computer Sciences to establish an interdisciplinary research program in genomics. The successful candidate is expected to establish an internationally competitive research program that adopts genomic approaches to study problems in evolutionary and population genetics. These problems include but are not limited to speciation genetics, the genetic basis of adaptation, the study of molecular evolution in humans or other model organisms, complex trait mapping, and plant or animal disease dynamics. Candidates should send curriculum vitae, addresses of three personal references, and a research statement to: **Genomics Search Committee, Department of Ecology and Evolution, University of Chicago, 1101 East 57th Street, Chicago, IL 60637**. The position will remain open until filled; however, first review of applications will begin June 15, 2000. *Equal Employment Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS. Two Postdoctoral positions are available to study protein folding and design. The projects involve study of the de novo-designed helical hairpin peptide α . Molecular biologist: cloning, expression, purification, stable isotope labeling, and biophysical characterization of α and variants. Experience with cloning and expression of proteins is required. Biochemist: chemical synthesis, purification and characterization by CD, fluorescence, and NMR of designed variants of α . Interested applicants should send a succinct letter of interest, curriculum vitae, one or more representative publications, and the names of three references to: **Dr. John Osterhout, The Rowland Institute for Science, 100 Edwin H. Land Boulevard, Cambridge, MA 02142**. E-mail: osterhout@rowland.org; website: www.rowland.org/folding.

POSITIONS OPEN

THE UNIVERSITY OF **ARIZONA** TUCSON ARIZONA

SCIENCE EDUCATION LIAISON

The Department of Molecular/Cellular Biology at the University of Arizona seeks a **SCIENCE EDUCATOR** to act as liaison with the National Science Foundation-funded program DESERT Project. The liaison will collaborate with school districts to develop/organize an interface among teachers, students, and University scientists. Required: Bachelor's degree in a related field, three years of experience in a scientific setting, two years of experience in a K-12 educational setting. For more information, see website: www.hr.arizona.edu. To apply, submit cover letter detailing science and/or teaching experience, a résumé or curriculum vitae, and three letters of recommendation to: **Dr. Erin Dolan, c/o Nancy J. Corn, The University of Arizona, Department of Molecular/Cellular Biology, Life Sciences S. 427A, P.O. Box 210106, Tucson, AZ 85721-0106**. FAX: 520-621-3709; e-mail: epeckol@u.arizona.edu. Review begins June 15, 2000, and continues until filled. *The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer; Minorities/Women/Disabled/Veterans.*

The National Space Biomedical Research Institute's Cardiovascular Alterations Team is seeking an **M.D. RESEARCH FELLOW** to conduct human studies focusing on the responses of cardiovascular system and renal-endocrine responses to a ground-based model of weightlessness. These studies will employ new methodologies developed at the Massachusetts Institute of Technology (M.I.T.) and will require close interaction with researchers at M.I.T. and Harvard Medical School. Applicants should send résumé and three letters of reference to: **Gordon H. Williams, M.D., Endocrine-Hypertension Division, Brigham and Women's Hospital, 221 Longwood Avenue, Boston, MA 02115**. Start dates are between July 1, 2000, and June 30, 2001. *Brigham and Women's Hospital is an Equal Employment Opportunity/Affirmative Action Employer. Women and minority candidates are especially encouraged to apply.*

STAFF ASSOCIATE

We are seeking a person who will be responsible for studies concerning the mechanisms of a new immune suppressive agent in Phase I/II trials in Type 1 diabetes. The work will involve flow cytometry, cell culture, and molecular and cellular studies of human T cell activation. In addition, skills and experience in human and/or nonhuman primate islet isolation are essential. Please send reply to: **Kevan Herold, M.D., Columbia University, Naomi Berrie Diabetes Center, 1150 St. Nicholas Avenue, New York, NY 10032**. We take Affirmative Action toward Equal Employment Opportunity.

ASSOCIATE RESEARCH SCIENTIST POSITION available at the Institute of Cancer Genetics, Columbia University, to study the analysis of chromosomal deletions in non-Hodgkin's lymphoma. Postdoctoral candidates should have an interest and extensive experience in the field of gene regulation. Please send a description of research interests, curriculum vitae, and names and telephone numbers of three references to: **Dr. Riccardo Dalla-Favera, Institute of Cancer Genetics, Columbia University, 1150 St. Nicholas Avenue, New York, NY 10032**. FAX: 212-304-5537. *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE

Positions are available to study the role of heat shock proteins in translation, mRNA stability, and folding of protein channels. Experience in molecular biology is required. Send curriculum vitae to: **Antonio De Maio, Ph.D., 720 Rutland Avenue, Ross 746, Baltimore, MD 21205**. FAX: 410-502-5093; e-mail: ademaio@mail.jhmi.edu.

POSITIONS OPEN

DIRECTOR ORLANDO REGIONAL HEALTHCARE HEALTH RESEARCH INSTITUTE

The Orlando Regional Healthcare Health Research Institute seeks a Director with eight to 10 years of distinguished managerial and research experience and the vision to plan and guide research programs in a multidisciplinary environment. Orlando Regional Healthcare, the winner of numerous state and national awards, is one of Florida's most comprehensive private not-for-profit health care systems. Orlando Regional Healthcare is closely affiliated with the University of Florida and the University of Central Florida. Academic appointments are available from these institutions. The Director of the ORH Health Research Institute will have chief responsibility for all operational, financial, scientific, and grant-funding functions of all research programs, including the development of scientific strategies and implementation of new technologies. The preferred candidate should be a Molecular Geneticist and possess a Ph.D. in molecular genetics, microbiology, pathology, or a relevant biological science field. This senior position requires proven leadership and strong communication and interpersonal skills, with particular emphasis on the responsibility to acquire grant funding for research programs. Excellent salary and benefits are available. Please submit current curriculum vitae and names of three references to: **Human Resources, Orlando Regional Healthcare Health Research Institute, 110 Bonnie Loch Court, Orlando, FL 32806**.

RESEARCH ASSOCIATE DRUG METABOLISM/ PHARMACOGENETICS

The University of Chicago, Chicago, IL

A Research Associate position is available to study metabolism and pharmacogenetics of anticancer agents in the laboratory of **Dr. Lalitha Iyer**, Department of Medicine and Committee on Clinical Pharmacology, at the University of Chicago. Research will focus on molecular aspects of UDP-glucuronosyltransferase enzyme expression and function related to cancer chemotherapy and etiology. Applicants must have a Ph.D. degree with strong research experience in molecular pharmacology of drug metabolizing enzymes. Specific experience in cell culture/transfection, Western and Northern blots, and/or immunohistochemistry required. Ability to train and supervise research technologists in these techniques, along with strong written and verbal communication skills, is required. Additional experience in pharmacokinetics/metabolism studies in rodents is a plus. Please send (1) curriculum vitae; (2) brief letter describing research interests and experience; and (3) list of three references, including telephone and FAX numbers and e-mail addresses to: **Lalitha Iyer, Ph.D., Department of Medicine (Hematology/Oncology), The University of Chicago, 5841 South Maryland Avenue, MC2115, Chicago, IL 60637**. FAX: 773-702-0963. *The University of Chicago and its Medical Center are Affirmative Action/Equal Opportunity Employers, and applications from women and representatives of minority groups are encouraged.*

POSTDOCTORAL POSITION available to study the role of nicotinic acetylcholine receptors (nAChR) in normal lung development and how lung development is altered by prenatal exposure to nicotine. Research will combine lung developmental biology in knockout mice and in monkeys combined with basic molecular studies of nAChR genes, ligands, and accessory proteins. The candidate should have a Ph.D. or M.D. degree and a background in cholinergic receptors or neurotransmission, lung biology, or lung development. Flexible start date and salary commensurate with experience. Send curriculum vitae and names of three references to: **Eliot R. Spindel, M.D., Ph.D., Division of Neuroscience, Oregon Regional Primate Research Center/Oregon Health Sciences University, 505 N.W. 185 Avenue, Beaverton, OR 97006**. E-mail: spindele@ohsu.edu. *Affirmative Action/Equal Opportunity Employer.*



Post-Doc at Aventis Pharma



The merger of the pharmaceutical companies Hoechst Marion Roussel and Rhône-Poulenc Rorer into the new global player Aventis Pharma is creating new opportunities within the pharmaceutical industry. Aventis Pharma combines an innovative pipeline with strong growth of new products in all of the world's major markets.

Within the department of Metabolic Diseases in the area of Drug Innovation & Approval at our Frankfurt site we are offering exciting opportunities for

Post Docs for Molecular Biology, Biochemistry and Cell Biology

with solid general and specific knowledge and experimental expertise in the areas of (i) recombinant DNA technology including bioinformatics, (ii) enzymology, and (iii) cell culture. In addition, practical experience is required in at least one of the following areas: (i) prokaryotic and eukaryotic expression of recombinant proteins, DNA chip/array technology, transcription analysis; (ii) establishment of cell-free assay systems, characterization of receptors, enzymes and transporters, analysis of signal transduction processes; (iii) establishment of cellular assay systems, development and characterization of novel cell lines and primary cell types including

transfection and microscopic analysis. Research experience and detailed knowledge within the areas of regulation and integration of glucose and lipid metabolism, as well as diabetes and obesity, are desired.

Your task will be the elucidation of new targets and molecular mechanisms for potential innovative drugs as well as the identification and characterization of novel pharmacological compounds, including the implementation of the required state of the art technologies and methods.

This is a unique opportunity for research professionals exhibiting a highly motivated and independent working style. You will work closely with scientists from various disciplines in a very goal- and result-oriented manner. Proficiency in both written & oral communications and a commitment to achieving success within a highly interactive, challenging, and multidisciplinary team environment are critical.

We offer interesting research projects with a high degree of direct responsibility in a creative environment of well-organized and competent research teams with international focus. Our state of the art facilities will provide you with every opportunity to be successful in this challenging position.

We offer competitive salaries which will suit your qualifications. The positions available are limited for a period of 2 (+1) years.

To apply, please send a full curriculum vitae including references to:

**Aventis Pharma
Deutschland GmbH
Application Service
Building K 607
65926 Frankfurt / Main
Germany**

You want to know more about Aventis:
<http://www.pharma.aventis.de>

POSITIONS OPEN

CANCER BIOLOGY AND IMMUNOLOGY

The Department of Pathology and Microbiology at the University of Nebraska Medical Center invites applications for a research position at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. The successful candidate will join a nationally prominent research program in cancer biology and molecular genetics with a special emphasis on lymphoma and leukemia. Candidates with a special interest in immunology or molecular genetics relevant to lymphoid malignancy are especially encouraged to apply. Individuals with peer-reviewed funding and a strong track record of research will be given preference. The University of Nebraska Medical Center provides a vibrant and interactive community of researchers with a wide range of interests and particular strengths in cancer biology and transplantation research. There are state-of-the-art institutionally supported core facilities, including those for mouse transgenics and ES cell manipulation, nucleic acid sequencing, flow cytometry, confocal microscopy, fluorescence imaging, and gene microarray analysis. The successful faculty candidate will be supported by ample space and a generous start-up package.

Send curriculum vitae, statement of research interests, and the names of at least three references to: **Dr. Timothy McKeithan, Faculty Search Committee, Department of Pathology and Microbiology, University of Nebraska Medical Center, 983135 Nebraska Medical Center, Omaha, NE 68198-3135.**

The University of Nebraska Medical Center is an Equal Opportunity Employer/Affirmative Action Employer.

SENIOR AND STAFF SCIENTISTS (molecular/cellular biology) at the Sigfried and Janet Weis Center for Research, Henry Hood Research Program. Outstanding candidates are sought for Staff Scientist (equivalent to **ASSISTANT or ASSOCIATE PROFESSOR**) or Senior Scientist (equivalent to **PROFESSOR**) positions at the Weis Center for Research. The Weis Center is located on the Danville campus of the Geisinger Health System, adjacent to the Geisinger Medical Center, a tertiary care teaching hospital. The Weis Center is a modern biomedical research facility that includes 65,000 square feet of laboratory, office, animal facility, and conference areas. The Center is located in a semi-rural area that affords an outstanding quality of life plus convenient access to major metropolitan areas. We are seeking candidates with proven records of accomplishment in conducting innovative research that addresses medically important problems at the cellular, molecular, or genetic level. The primary criterion for selection will be the quality of the applicant's research as evidenced by publication in peer-reviewed journals. Candidates for Senior Scientist positions are also expected to have a history of extramural funding. Substantial resources are available for start-up and ongoing research support. Qualified individuals should submit curriculum vitae, statement of research interests, and the names and addresses of three references to: **Ms. Julie Brosius (dj), Sigfried and Janet Weis Center for Research, Geisinger Clinic, 100 North Academy Avenue, Danville, PA, 17822-2600. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available to study transcriptional regulation in mammalian cells and their associated viruses. Our goal is to define the roles of human general cofactors (TFIID, PC4, and Mediator) and RNA polymerase II holoenzyme in transcribing naked DNA and chromatin (see *EMBO J.* 17:4478; *JBC* 274:23480). We are also interested in hormone receptor functions and transcriptional control in human papillomaviruses (see *MCB* 20:113). Interested candidates should submit applications, including curriculum vitae; copies of publications; statement of research interests; and three letters of recommendation to: **Dr. Cheng-Ming Chiang, Department of Biochemistry, 419 RAL, University of Illinois, 600 South Mathews Avenue, Urbana, IL 61801 U.S.A. E-mail: c- Chiang@uiuc.edu. Web-site: http://www.scs.uiuc.edu:80/~bioch/chiang.html.**

POSITIONS OPEN

DIRECTOR, INSTITUTE OF NEUROBIOLOGY UNIVERSITY OF PUERTO RICO MEDICAL SCIENCES CAMPUS

The University of Puerto Rico—Medical Sciences Campus is seeking a Director for the Institute of Neurobiology. The Institute of Neurobiology is an inter-departmental, interdisciplinary research facility. Its members carry out basic research in neuroscience to understand basic mechanisms of nervous system function and development with particular emphasis on the use of simple systems such as the marine invertebrates, which live in the tropical waters near the Institute. The Director is responsible for the administration and leadership of the Institute's research efforts and for program and professional development of the faculty.

The Director should qualify for a faculty appointment at the **FULL PROFESSOR** level in an appropriate academic department. The appointment carries an administrative stipend. Strong administrative and leadership capabilities, superior records in research and grant support, and communication skills are essential. The research expertise of applicants is open in the neurosciences field.

Letters of application; curriculum vitae; and the names, addresses, telephone numbers, and e-mail addresses of three references should be sent to: **Search Committee, Director of the Institute of Neurobiology, University of Puerto Rico—Medical Sciences Campus, Office of the Chancellor A-767, P.O. Box 365067, San Juan, PR 00936-5067.** In order to receive full consideration, applications should be received by August 15, 2000.

For general information on the Institute of Neurobiology, see website: www.neurobio.upr.clu.edu or contact: **Dr. Guillermo Vazquez, Chair, Search Committee for the Director of the Institute of Neurobiology. E-mail: rcm_csbimed@rcmaca.upr.clu.edu.**

University of Puerto Rico—Medical Sciences Campus is an Equal Opportunity/Affirmative Action Employer authorized by the state electoral commission.

ASSISTANT PROFESSOR DEPARTMENT OF OTOLARYNGOLOGY HEAD AND SURGERY Wayne State University

An academic tenure-track position is available for Molecular Biologist with experience in head and neck cancer or squamous cell biology. Background in cell cycle regulation, apoptosis, and/or genetics is strongly recommended. Collaboration with clinical and basic researchers is strongly encouraged. The applicant should have at least a Ph.D. with two Postdoctoral Fellowships. Researcher with funding or who demonstrates such potential should send cover letter and curriculum vitae to:

**George H. Yoo, M.D.
Department of Otolaryngology
Wayne State University
4201 St. Antoine, 5E UHC
Detroit, MI 48201
Telephone: 313-577-0805**

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

POSTDOCTORAL POSITION available immediately for molecular biologist/virologist to work on CNS gene therapy, with emphasis on development of novel vectors and specific disease applications. Background in cell culture and HSV, AAV, and/or adenovirus engineering required. Neurobiology and/or animal experience is helpful but not necessary. FAX or e-mail curriculum vitae and names of three references to: **Michael Kaplitt, M.D., Ph.D., Laboratory of Neurobiology and Behavior, The Rockefeller University, 1230 York Avenue, New York, NY 10021. E-mail: kaplitt@rockefeller.edu; FAX: 212-838-9208.**

POSITIONS OPEN

The Lymphocyte Biology Section of the Laboratory of Immunology, NIAID, NIH, conducts basic research on immune recognition by T lymphocytes and on the interactions of T lymphocytes and antigen-presenting cells. The Section is seeking a well-trained **MOLECULAR IMMUNOLOGIST** to support its efforts in molecular biology and biochemistry. A successful candidate will have substantial experience in recombinant DNA and immunological methods including but not limited to: plasmid vector construction; mutagenesis; plasmid isolation; DNA sequencing; generation and purification of fusion proteins; transfection; retroviral stock preparation and cell infection; recombinant baculovirus generation and use for protein preparation; monoclonal antibody purification; DNA, RNA, and protein gel electrophoresis; immunoprecipitation; Western blotting; Southern blotting; PCR; design of PCR primers; RT-PCR; immunofluorescence microscopy; flow cytometry; tissue culture; lymphoid cell isolation; lymphocyte activation assays; and ELISA assays. The successful candidate will have opportunities for authorship on scientific publications and public data presentations based on his/her performance and productivity in the laboratory.

The GS position requires U.S. citizenship as a permanent position. Mail résumé and three letters of recommendation to: Joann Martin, NIAID, Building 31, Room 7A27, 31 Center Drive, Bethesda, MD 20892. Telephone: 301-496-4634. Please include Announcement Number AI-00-082. Please call the above number for the detailed vacancy announcement. Closing date: June 2, 2000.

NIH is an Equal Employment Opportunity Employer.

POSTDOCTORAL POSITION MALARIA PARASITE BIOLOGY

A position is available in the Postdoctoral Intramural Research Training Award (IRTA) or Visiting Fellow Programs at the National Institute of Allergy and Infectious Diseases, Laboratory of Parasitic Diseases, Malaria Cell Biology Section, to study the signaling events involved in invasion of red blood cells by the human malaria parasite *P. falciparum*. A multidisciplinary approach will be used and includes bioinformatics, molecular biology to clone and express the relevant genes in heterologous systems, and physiologic methods to characterize the complex cascade of events that allows parasites to invade red blood cells. This work may lead to fundamental insights on the parasite's biology and the identification of targets for therapeutic intervention against malaria. This project is ideally suited for an ambitious and energetic Ph.D. and/or M.D. with less than five years of postdoctoral experience. Salary starts at \$29,000 and is commensurate with experience. Specific application procedures apply. Contact: **Sanjay Desai, M.D., Ph.D., at e-mail: sdesai@niaid.nih.gov** for information about these procedures. Applications must be postmarked by close of business July 7, 2000, and sent to:

**Louis Miller, M.D.
Laboratory of Parasitic Diseases, NIAID
National Institutes of Health
Building 4, Room 126
4 Center Drive MSC 0425
Bethesda, MD 20892-0425
FAX: 301-402-0079
E-mail: sdesai@niaid.nih.gov**

NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available to study the role of the ATM protein kinase in regulating cell cycle progression, p53 activation, and DNA repair. Ph.D. with experience in molecular cloning and cell culture required. Curriculum vitae and names of three references to: **Brendan Price, Dana-Farber Cancer Institute, Harvard Medical School, Boston, MA 02115. Send by e-mail: brendan_price@dfci.harvard.edu. Affirmative Action/Equal Employment Opportunity.**

In Vivo Neuroscientist/ Pharmacologist

Merck Sharp & Dohme is part of Merck & Co., Inc., one of the world's leading pharmaceutical companies with over 62,300 employees worldwide. Merck discovers, manufactures and markets a broad range of products to improve human and animal health, and has an unparalleled reputation for innovative research. This year alone the company will invest £1.5 billion in research and development, a 15% increase on 1999.

The Neuroscience Research Centre is fully committed to the discovery of novel therapies for the treatment of disorders of the central nervous system including Alzheimer's disease, stroke, depression, anxiety, chronic pain and migraine. It is one of the largest dedicated neuroscience research laboratories in the world and is a premier site for Merck. It is located in picturesque parkland surroundings on the rural Hertfordshire/Essex border.

We are looking for a talented scientist to join us and study the role of neurotransmitters in the control of the central nervous system. Some electrophysiology experience is desirable particularly relating to changes that occur during the sleep/wake cycle.

Have you relevant experience in the pharmaceutical industry and are looking for a new challenge? Have you recently obtained a PhD in pharmacology, psychology, physiology or a related neuroscience based subject? If so, we would like to hear from you.

We offer excellent salary and benefits including private healthcare, life assurance, company pension scheme and, where appropriate, relocation assistance. There is also an on-site childcare facility.

Please write or e-mail, enclosing a full CV, quoting reference BN009206 to:

Recruitment Co-ordinator, Human Resources Department, **The Neuroscience Research Centre**, Merck Sharp & Dohme, Terlings Park, Eastwick Road, Harlow, Essex CM20 2QR. e.mail: tp_hr@merck.com
<http://www.msd-nrc.co.uk>



MERCK SHARP & DOHME

The Neuroscience Research Centre



GLOBAL OPPORTUNITIES



THE CHINESE UNIVERSITY OF HONG KONG

Faculty of Medicine Department of Surgery

The Department is well equipped with modern facilities for animal experiments, cell and tissue cultures, biochemical and molecular studies and immunological work. Applications for the following posts are invited from PhD degree holders with a background in biomedical research, preferably familiar with animal model of human diseases (the research area is open but should be related to surgical problems):

(1) **Postdoctoral Fellow** (Ref. 00/038(665)/2, closing date: 2 June 2000). Applicants should be fresh doctorates or within 3 years from obtaining PhD. Appointment will be made on a one-year contract. The appointee is expected to assume duty in July 2000 or as soon as possible thereafter. (2) **Scientific Officer** (Ref. SO/2/1/400, closing date: 2 June 2000). Applicants should have 4 to 5 years' postdoctoral experience. Appointment will be made on a two-year contract. The appointee is expected to assume duty in July 2000 or as soon as possible thereafter.

Annual Salary and Fringe Benefits: Postdoctoral Fellow: commencing HK\$343,860; Scientific Officer: commencing HK\$336,900 (approx. exchange rate in April 2000: £1 = HK\$12.36; US\$1 = HK\$7.75). Starting salary will be commensurate with qualifications and experience. For post (1): Benefits include leave with full pay and out-patient medical care. For post (2): Benefits include annual leave and out-patient medical care, and a contract-end gratuity and/or University contribution to retirement schemes (totalling up to 15% of basic salary). For the second year of employment onwards, dental care is also offered.

Further information about the University and the general terms of service for appointees is available on our homepage: <http://www.cuhk.edu.hk>.

Application Procedure: Please send full resume, copies of academic credentials, a publication list and/or abstracts of selected published papers [for post (1) only], together with names and addresses (fax numbers/e-mail addresses as well, if available) of three referees to the Personnel Office, The Chinese University of Hong Kong, Shatin, New Territories, Hong Kong (Fax: (852) 2603 6852) on or before 2 June 2000. Please quote the appropriate reference number and mark "Application" on cover.

EUROPEAN OPPORTUNITIES



UNIVERSITY OF CAMBRIDGE

Wellcome Trust Centre for
Molecular Mechanisms in Disease

Fast-track Training in Biomedical Computing

Grade: CAII leading to CAI

Salary range: £23,521-£27,451

Limit of tenure: Up to 3 years with prospect of further appointments

We wish to recruit two recent graduates to train in computer systems management and acquire skills in data management and analysis, and in informatics associated with the human genome project, applied to genetic studies of infectious disease and autoimmunity (<http://www.cimr.cam.ac.uk> and <http://www-gene.cimr.cam.ac.uk/todd/>). The postholders will be immediately responsible for managing a mixed network of Unix, PC and Mac machines running a wide range of bioinformatics, statistics, robotics and office software.

These two positions provide excellent opportunities, through on-the-job training and course attendance, to develop high levels of systems management skills and bioinformatics expertise. Progress and training will be paralleled with fast-track career development. It is expected that successful candidates will be streamed for accelerated advancement beyond Computer Associate grades into research grades.

Experience in Unix systems and in programming would be an advantage. The successful applicants will hold (expect) a Masters, or first or 2:1 degree in a scientific discipline and will have demonstrated both an exceptional aptitude for computing and strong interpersonal skills.

Applications, including the names and addresses of two academic referees to be sent to Mrs Judy Brown (judy.brown@cimr.cam.ac.uk), Wellcome Trust Centre for Molecular Mechanisms in Disease, Wellcome Trust/MRC Building, Addenbrooke's Hospital, Hills Road, Cambridge CB2 2XY. Closing date: 5 June 2000.

The University is committed to equality of opportunity

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP

Postdoctoral position is available in the Center for Tropical Diseases at the University of Texas Medical Branch to participate in NIH-funded research on the molecular epidemiology of St. Louis encephalitis virus. This research project includes laboratory studies and field epidemiology. Candidates must have a Ph.D. degree with a background in molecular biology and virology and experience working with arthropod-borne viruses. Applicants should send curriculum vitae and names of three references to: **Dr. Laura Chandler, 5114 McCullough Building, University of Texas Medical Branch, 301 University Boulevard, Galveston, TX 77555-0740. E-mail: lchandler@utmb.edu.** *University of Texas Medical Branch is an Equal Opportunity/Affirmative Action Employer; Minorities/Females/Disabled/Veterans.*

POSTDOCTORAL POSITION available for study of molecular biology of pain and analgesia. NIH-funded laboratory investigating receptor mechanisms underlying neural plasticity associated with chronic pain and gender differences in analgesia. Qualified applicants will have a Ph.D. with fewer than three years of postdoctoral experience and published experience with quantitative protein and mRNA analysis. Provide curriculum vitae and three references to: **Dr. James Eisenach, Professor of Anesthesiology, Wake Forest University School of Medicine, Winston-Salem, NC 27157-1009. E-mail: eisenach@wfubmc.edu.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION is available to work on HIV-1 DNA vaccine study. Expertise in T cell immunology is an absolute necessity as are interpersonal skills. Interested candidates should submit résumé with names and telephone numbers of three references to: **Velpandi Ayyavoo, Ph.D., Department of Infectious Diseases and Microbiology, University of Pittsburgh, 130 DeSoto Street, Pittsburgh, PA 15261. FAX: 412-383-8926; e-mail: velpandi+@pitt.edu.** *The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer. Applications from qualified women, minorities, and/or disabled persons are encouraged.*

POSTDOCTORAL POSITION MOLECULAR IMMUNOLOGY

Immediate position available for a Senior Postdoctoral Fellow or **RESEARCH ASSOCIATE STAFF** Ph.D. Molecular Biologist to work on DNA microarrays. Send curriculum vitae and names of three references to: **Dr. Leslie P. Weiner, Department of Neurology, University of Southern California, Keck School of Medicine, 1975 Zonal Avenue, KAM 410, Los Angeles, CA 90033. FAX: 323-442-3015; e-mail: lweiner@hsc.usc.edu.** *Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS

Available to study structure and function of thrombin, tPA, and related enzymes involved in blood coagulation, fibrinolysis, complement, and embryonic development. Expertise in structural/computational biology, molecular biology, or enzymology is required. Contact: **Enrico Di Cera, Department of Biochemistry and Molecular Biophysics, Washington University School of Medicine, Box 8231, St. Louis, MO 63110. E-mail: enrico@caesar.wustl.edu.**

POSTDOCTORAL POSITION available to investigate mechanisms of host defense against intracellular pathogens. Candidates should have Ph.D. or M.D. degree with a strong background in immunology, cell biology, and molecular biology. Send curriculum vitae, names of three references, and a brief description of research experiences and interests to: **Yasuhiro Suzuki, Ph.D., Department of Immunology and Infectious Diseases, Research Institute, Palo Alto Medical Foundation, 795 El Camino Real, Ames Building, Palo Alto, CA 94301. FAX: 650-329-9853.**

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to study heparin-binding proteins. Will involve use of molecular biology to develop novel therapeutic agents. Applicants must have training in molecular biology. Experience working with animals and in protein and/or carbohydrate chemistry desirable. Requires Ph.D. in molecular biology, biochemistry, or related discipline and interest and ability to work across disciplines. Send curriculum vitae and three reference letters to: **Prof. John M. Weiler, 200 Hawkins Drive, University of Iowa, Iowa City, IA 52244. E-mail: john-weiler@uiowa.edu.** *Professors John M. Weiler and Robert J. Linhardt: web-sites: www-heparin.pharmacy.uiowa.edu and ictg.uiowa.edu/clab/clab.htm. University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

POSTDOCTORAL POSITION CANCER GENOMICS

Postdoctoral position or **JUNIOR RESEARCH SCIENTIST POSITION** is available in an expanding group studying the molecular basis of head and neck and thyroid cancers. Work will involve positional cloning, molecular-cytogenetic analysis, and DNA microarray analysis. Candidates must have a Ph.D. or equivalent with a significant background in molecular biology. Please submit your curriculum vitae and names of three references to: **Bhuvaneswari Singh, M.D., Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. FAX: 212-717-3302. Memorial Sloan-Kettering Cancer Center is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION

Position available to study structure/function relationships in potassium channels. The project will use protein biochemical and electrophysiological techniques to study functional properties of the prokaryotic KcsA potassium channel. Experience in molecular biology, protein biochemistry, or electrophysiology required. Interested applicants should send curriculum vitae and the names of three references to: **Lise Heginbotham, Department of Molecular Biophysics and Biochemistry, Yale University, 260 Whitney Avenue, New Haven, CT 06520-8114. E-mail: lise.heginbotham@yale.edu.**

Two **POSTDOCTORAL POSITIONS** to examine the impact of feeding on gustatory-evoked responses in the cerebral cortex of nonhuman primates. Expertise in single neuron extracellular recording essential. Familiarity with taste, feeding, and chronic recording techniques desirable but not essential. Send curriculum vitae and names of three references to: **Dr. Thomas Pritchard, The Pennsylvania State University, Department of Behavioral Science, 500 University Drive, Hershey, PA 17033. E-mail: tcp1@psu.edu.** *Penn State is committed to Affirmative Action, Equal Opportunity, and the diversity of its workforce.*

POSTDOCTORAL POSITIONS are available to study the structure-function relation of ion channels using a combined approach of molecular and structural biology, biochemistry, and electrophysiology. Candidates with expertise in electrophysiology and structural biology are desired. Please send curriculum vitae along with names and telephone numbers of three references to: **Dr. Zhe Lu/Ms. Angela Klem, Department of Physiology, University of Pennsylvania, Philadelphia, PA 19104-6085. E-mail: aklem@mail.med.upenn.edu.**

POSTDOCTORAL POSITION available immediately at Harvard Medical School to study the mechanism of HIV-1 integration. Projects focus on viral preintegration complexes, human host cell cofactors, and HIV-based vectors for gene therapy. Forward curriculum vitae and three reference letters to: **Dr. Alan Engelman, Department of Cancer Immunology/AIDS, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. FAX: 617-632-3113; e-mail: alan_engelman@dfci.harvard.edu.** *Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITION PROTEOMICS AND CANCER CELL BIOLOGY

Unique opportunity to join multidisciplinary research program applying mass spectrometric methods (ESI-FTICR and EST-TOF) and 2-D PAGE to investigation of laser capture microdissected human urologic cancer cells and cells in culture. Research spans departments of pathology (**Joy Ware, Ph.D.**) and chemistry (**David Muddiman, Ph.D.**). Requires Ph.D. and experience in either protein biochemistry or mass spectrometry. Competitive salary commensurate with experience. Send curriculum vitae, statement of interests, and three letters of reference to: **Functional Genomics Program, c/o Ms. Angela Moulton, P.O. Box 980-662, Medical College of Virginia Campus of Virginia Commonwealth University, Richmond, VA 23298.** Applications should be received by June 30, 2000. *Equal Opportunity Employer. Women and minorities are encouraged to apply.*

POSTDOCTORAL POSITION HARVARD MEDICAL SCHOOL

A position is available immediately to study molecular/cellular aspects of leukocyte-endothelial interactions pertinent to allorecognition and inflammation. Research studies focus on immune mechanisms of antigen processing as well as nonimmune mechanisms of inflammation. Desired qualifications include recent Ph.D. and/or M.D. degree and practical experience in cellular and/or molecular biology. Please send curriculum vitae, statement of interests, and names of three references to: **David M. Briscoe, M.D., Division of Nephrology, Children's Hospital, 300 Longwood Avenue, Boston, MA 02115. E-mail: briscoe@al.tch.harvard.edu.**

POSTDOCTORAL POSITIONS available to study the pathogenesis of HIV and human cytomegalovirus (CMV). Areas of HIV research examine factors that impact on mother-to-infant transmission and the role of macrophages, dendritic cells, and chemokine receptor genotypes in HIV pathogenesis including CNS impairment. Research projects on CMV study the cell types, molecular mechanisms, and pathogenic significance of CMV latency and reactivation. Spoken and written fluency in English required. Applicants should provide curriculum vitae and three letters of recommendation to: **Stephen A. Spector, M.D., University of California, San Diego, Stein Research Building, 9500 Gilman Drive, La Jolla, CA 92093-0672. FAX: 858-534-7411; e-mail: saspector@ucsd.edu.**

A **POSTDOCTORAL POSITION** is available to study the regulation of potassium channels in the myometrium during pregnancy. This laboratory uses a multidisciplinary approach to study how potassium channels modulate smooth muscle cell excitability and contractility. A Ph.D. or M.D. is required. The salary is competitive and negotiable, and fringe benefits are included. The successful applicant should be highly motivated with experience in electrophysiological techniques. Send curriculum vitae to: **Dr. Sarah K. England, Department of Physiology and Biophysics, 5-660 Bowen Science Building, The University of Iowa, Iowa City, IA 52242-1109.** *The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.*

POSTDOCTORAL POSITION in bioinorganic chemistry is currently open to study de novo metal-binding proteins as potential selective artificial endonucleases. Experience in protein expression and purification and/or oligonucleotide labeling and sequencing preferred. Send curriculum vitae and three letters of reference to: **Professor Sonya J. Franklin, Department of Chemistry, University of Iowa, Iowa City, IA 52242.** For further information, see website: www.uiowa.edu/~chemdept/faculty/franklin/. *The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*



FACULTY OF HEALTH SCIENCES

Professorship in Cellular and Functional Anatomy of the Immune System

At the Institute of Medical Anatomy a permanent position as professor in Cellular and Functional Anatomy of the Immune System is open for appointment as soon as possible.

The duties will cover teaching of medical students within the anatomical curriculum. At the fall of year 2000 a new curriculum is implemented which includes organ courses covering the musculoskeletal system, internal organs, and the head and neck as major topics.

The applicant shall have documented a high degree of original scientific production at an international standard within cellular immunology including structural and functional aspects of the immune system

The salary equals DKK 420.269,00 annually. In addition the University will grant an annual increment of DKK 41.436,91 (per 1st April 2000).

Closing date of applications:
16 June 2000 at 12 a.m.

This call for applications is an extract on which the application cannot be based. If you consider applying for the position, read the full text of the advertisement on the Internet address <http://www.sund.ku.dk> or ask for it at the Personnel Office, tel. +45 35 32 26 45.

Positions available at Göteborg University

SENIOR LECTURER/ASSOCIATE PROFESSOR IN GENETICS

at the Department of Cell and Molecular Biology (CMB)

The CMB invites applications for a Lecturer/Associate Professor position from individuals with a record of significant research achievements in Genetics. Especially encouraged to apply are those employing state-of-the-art molecular genetic approaches applied on Genetic Model Organisms, Cancer Genetics, Mammalian Genomics or related areas. The position is placed at CMB-Genetics, where the main activities are directed towards research in mammalian genomics, in cancer susceptibility genes, in genes involved in the development of cancer, and physical and linkage mapping in rat and other mammals. The Lundberg laboratory is currently recruiting scientists in the fields of functional genomics and bioinformatics. It is expected that the successful applicant will devote time both to teaching and to his/her own research program.

Eligibility: A Ph.D. or equivalent with postdoctoral experience is required for the position. The applicant should have an active and independent research program capable of attracting external funding and a commitment to excellence in teaching.

A person who is offered a position as senior lecturer/associate professor may be employed as full professor if she or he has requested this and is subsequently judged to be sufficiently competent (Higher Education Ordinance chapter 4, 12 §).

Criteria of ranking: In ranking eligible candidates importance will be attached to scientific and teaching skills. Documented ability to inform about research and development will be taken into account. Importance will also be attached to administrative skills.

The University is striving for an even balance of genders in its teaching positions.

Please submit three copies of each of the following:

1. Signed and witnessed curriculum vitae and list of scientific publications, indicating up to ten publications considered most representative of your scientific achievements.
2. A short account of scientific and teaching experience including a research programme, pointing out scientific results and other merits such as current funding situation that should be given special attention by the Recruitment Committee.
3. Documentation of degrees obtained and other relevant documents.
4. The 10 publications indicated in item 1 (two copies)

For further information about the position, please contact Professor Göran Levan, phone +46(31) 773 3290, e-mail: Goran.Levan@gen.gu.se or chairman of department professor Gunnar Bjursell tel +46(31) 773 3800, e-mail: Gunnar.Bjursell@molbio.gu.se or our homepage <http://www.cmb.gu.se>.

The application should be addressed to the Registrar and must arrive at Göteborg University, Registrars Office, Box 100, 405 30 Göteborg, Sweden, no later than **15 June 2000** and state on the application **ref no E324 1530/00**

Trade-union representatives: SACO Sören Sagne phone +46(31)773 19 89, TCO-OF Peter Brandt phone +46(31)773 11 69 and SEKO Lennart Olsson phone +46(31)773 11 73.



**GÖTEBORG
UNIVERSITY**

POSITIONS OPEN

POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS ELECTROPHYSIOLOGY/ IMMUNOCYTOCHEMISTRY

Two positions are available immediately for a foreign graduate with a Ph.D. obtained since 1998 or a Canadian Ph.D. (no time limit). The applicants should be trained in some of the techniques. The positions are for at least two years and involve (1) whole cell, patch, and single channel recordings of astrocytes to measure chloride currents and the effect of intracellular chloride changes on potassium currents and (2) immunocytochemical staining of brain slices to evaluate reactive gliosis using a stroke model. The salary will be based on experience with a minimum of \$28,000 (the university policy on benefits will apply). Please send curriculum vitae and names of references to: **Dr. Wolfgang Walz, Department of Physiology, University of Saskatchewan, 107 Wiggins Road, Saskatoon, SK S7N 5E5 Canada. Telephone: 306-966-6551; FAX: 306-966-6532; e-mail: walz@sask.usask.ca; website: http://www.usask/~walz/.**

POSTDOCTORAL FELLOW EMORY

The NIAID Tetramer Core Facility division of Yerkes Regional Primate Research Center and Emory University has immediate opportunity for a Postdoctoral Fellow to explore the generation and developing applications for MHC Class II tetramers. Experience with recombinant protein expression, especially in eukaryotic or insect cells, is preferred. Position offers dynamic opportunities for collaboration on current problems in viral immunology and autoimmunity with several investigators within Emory's immunology program (see website: <http://www.biomed.emory.edu/IMP/IMP.html>) and outside of Emory. Applicants must be eligible to work in the United States Salary commensurate with experience; full benefits. Please forward curriculum vitae, a letter describing research interests, and names of three references to: **Dr. John Altman, NIAID Tetramer Core Facility at Emory University, 954 North Gatewood Road, Atlanta, GA 30329. Website: www.emory.edu. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS MOBILE SELF-SPICING INTRONS

Dynamics of self-splicing introns are studied at the levels of RNA, DNA, and protein accessories. Projects include analysis of catalytic RNAs, DNA-based intron mobility, and intron evolution using genetic, biochemical, and structural approaches. Broad choices of projects. Experience in genetics, DNA recombination, RNA splicing, protein structure, and/or nucleic acid chemistry desirable. Competitive, federally funded salary (through Health Research, Inc.).

Candidates forward curriculum vitae and three letters of reference to: **Dr. Marlene Belfort, Wadsworth Center, New York State Department of Health and Department of Biomedical Sciences, State University of New York, Box 22002, Albany, NY 12201-2002. FAX: 518-474-3181; Telephone: 518-473-3345; e-mail: carl@wadsworth.org. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION: A position is available immediately to study the interrelationship between protein structure and function. Molecular biology techniques including directed evolution will be utilized to create altered enzymes to study specific aspects of their catalytic and regulatory mechanisms. The mutant enzymes will be characterized by kinetics and spectroscopy, as well as X-ray diffraction. Candidates with a Ph.D. degree in enzymology or molecular biology or crystallography that want to extend their experience to the other areas are particularly encouraged to apply. Send curriculum vitae and names and telephone numbers of three references to: **Dr. Evan R. Kantrowitz, Department of Chemistry, Boston College, Chestnut Hill, MA 02467. E-mail: evan.kantrowitz@bc.edu.**

POSITIONS OPEN

UIC

POSTDOCTORAL AND RESEARCH ASSISTANT PROFESSOR POSITIONS The University of Illinois at Chicago

Several research positions are currently available for biophysical studies of the structure and function of proteins of the serpin gene superfamily. Positions at the **POSTDOCTORAL ASSOCIATE/FELLOW** level, which require a Ph.D. and/or M.D., are available for several NIH-funded projects, including a newly funded program project grant aimed at understanding key serpin regulators of blood coagulation, inflammation, apoptosis, and host defense. Projects are headed by **Drs. Peter Gettins and Karl Volz** in the College of Medicine and **Drs. Steven Olson and Philip Patston** in the College of Dentistry. The approaches emphasized are NMR, X-ray crystallography, spectroscopy, rapid kinetics, and thermodynamics. Experience in biophysical and molecular biology studies of proteins is desirable. One position is available at the **RESEARCH ASSISTANT PROFESSOR** level, which involves oversight of protein and molecular biology core facilities. This position requires a Ph.D. and several years of experience with the molecular biology and protein expression/purification of recombinant proteins. The positions offer a stimulating research environment with an established collaborative team of investigators and state-of-the-art equipment. Further information is available at website: www.uic.edu/depts/mcbtp/gettins.htm. Applicants should send their curriculum vitae and three letters of reference to: **Ms. Barbara Poltzer, Department of Biochemistry and Molecular Biology M/C 536, University of Illinois at Chicago College of Medicine, 1853 West Polk Street, Chicago, IL 60612. FAX: 312-413-0364. University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.**

TWO POSTDOCTORAL POSITIONS PROGRAM IN PHARMACOGENOMICS University of California, San Francisco

Two positions are available in the laboratory of **Dr. Wolfgang Sadee** in the Department of Biopharmaceutical Sciences, Program in Pharmacogenomics, at the University of California in San Francisco. The qualifications for each position are as follows: (1) to develop expression DNA arrays for membrane proteins (in particular transporters) and parallel analysis of polymorphisms affecting drug response and (2) molecular pharmacology of receptors (GPCRs) and ion channels, receptor polymorphisms, coupling to ion channels, and protein-protein interactions in membranes.

A Ph.D. is required with emphasis in any of the following fields: molecular biology, protein chemistry, receptor signaling, and/or bioinformatics. Send résumé and names of three references to: **Wolfgang Sadee, Ph.D., Program in Pharmacogenomics, Department of Biopharmaceutical Sciences, University of California, San Francisco, San Francisco, CA 94143-0446. E-mail: sadee@cgl.ucsf.edu; website: http://itsa.ucsf.edu/~wsadee/. The University of California is an Equal Opportunity Employer. Minorities and women are encouraged to apply.**

POSTDOCTORAL POSITION, University of Illinois, Champaign/Urbana, Illinois, to study the molecular mechanisms of soy phytoestrogens on bone and the reproductive tract. Experience in molecular biology, reproductive physiology, and/or nutrition required. Send résumé and three references to: **Dr. Janice Bahr, 326 Animal Sciences, 1207 West Gregory Drive, Urbana, IL 61801. E-mail: jbahr@uiuc.edu. Or send to: Dr. Elizabeth Jeffery, 352 Food Science and Human Nutrition, 1101 West Peabody, Urbana, IL 61801. E-mail: ejeffery@uiuc.edu. University of Illinois is an Equal Opportunity Employer.**

POSITIONS OPEN

The Matrix Metalloproteinase Unit (MMPU) of the National Institute of Dental and Craniofacial Research (NIDCR) is seeking **POSTDOCTORAL FELLOWS** to join the ongoing research program.

The research of the MMPU is focused on understanding the role of proteolytic enzymes in tissue remodeling during development, in homeostasis, and in disease with specific emphasis on morphogenesis and pathophysiological processes associated with tissue destruction. The laboratory has an expanding field of interest in characterization of metalloproteinases originating in a long-standing research effort on characterization of matrix metalloproteinases (MMPs), their activation, biological function, and inhibition by tissue inhibitors of metalloproteinases (TIMPs).

Candidates with a strong background in one or more of the following relevant areas (mouse and human molecular genetics, protein biochemistry, cell biology, and experimental disease models) are encouraged to submit their applications, including curriculum vitae, relevant publications, and names of individuals who can provide letters of recommendation. Applications should be sent to: **Ms. Sharon Wentzel, NIDCR, Building 30, Room 132, 30 Convent Drive MSC 4326, Bethesda, MD 20892-4326. NIH is an Equal Opportunity Employer.**

POSTDOCTORAL POSITION Two Postdoctoral positions will be available in the summer and fall of 2000 to participate in studies of the molecular bases of bacterial cell division and the bacterial cell cycle. (1) Proteins involved in bacterial cell division. The work will involve *in vitro* and *in vivo* studies of protein interactions involved in division site placement and cell division (**Rothfield and Zhao, Cell 84:183-186, 1996; Rowland et al. Mol. Microbiol. 182:613-619, 2000**) using molecular biological and biochemical approaches combined with cellular localization by fluorescence microscopy. (2) Interactions of the *E. coli* chromosomal origin of replication with the cytoplasmic membrane. The work will involve a combination of molecular biology, membrane fractionation, and *in vitro* DNA-binding studies, with emphasis on proteins involved in chromosome sequestration and in replication initiation (**Shakabai et al. Proc. Natl. Acad. Sci. U.S.A. 95:11117-11123, 1998**). Send curriculum vitae, brief description of prior research experience, and the names of several references to: **Dr. L. Rothfield, University of Connecticut Health Center, Farmington, CT 06032.**

POSTDOCTORAL RESEARCH ASSOCIATE: Outstanding candidates are invited to work on signal transduction centered around protein kinase C and associated elements using both *in vitro* and cell culture models. Interest centers around the role of protein-protein interactions in the control of cell signaling using molecular biological, fluorescence confocal imaging, and other approaches. The position would suit a recently qualified Ph.D. with qualifications and experience in one or more of the following: molecular biology (vector construction), biochemistry (protein purification and analysis), and cell biology/biophysics (cell culture, imaging, etc.). Please apply directly to: **Dr. C. D. Stubbs, Department of Pathology, Anatomy, and Cell Biology, Thomas Jefferson University, Room 271 JAH, 1020 Locust Street, Philadelphia, PA 19107. Equal Opportunity Employer.**

POSTDOCTORAL POSITION

Postdoctoral positions are currently available to study the structural basis of pulmonary surfactant protein functions at the University of Cincinnati. Molecular biology (site-directed mutagenesis, insect cell expression); protein; lipid oxidation chemistry; and transgenic development and characterization experience preferred. Applicants with a Ph.D. or M.D. degree are invited to send curriculum vitae and names of three references to: **Dr. F. X. McCormack, Pulmonary and Critical Care Medicine, University of Cincinnati, P.O. Box 670564, Cincinnati, OH 45267-0564. E-mail: frank.mccormack@uc.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS CANCER RESEARCH

EPPLLEY CANCER INSTITUTE
University of Nebraska Medical Center

Several Postdoctoral positions exist within the Epplley Cancer Institute, an integral component of the University of Nebraska Medical Center Epplley Cancer Center, an NCI-designated cancer center. Investigators with open positions include:

Dr. James D. Shull (jshull@unmc.edu): estrogens and breast cancer, genetics of breast cancer susceptibility, estrogen action in the regulation of pituitary biology (two positions).

Dr. J. Alan Diehl (adiehl@unmc.edu): cell cycle regulation, nucleocytoplasmic transport of cyclins, growth regulation and cancer (two positions).

Dr. M. A. Hollingsworth (mahollin@unmc.edu) and **Dr. H. Clausen (hc@odont.ku.dk):** international collaborative project on molecular and cellular biology of mucin Type O-glycosylation (two positions); travel involved between Denmark and the United States).

Additional information regarding the research of the Investigators can be found at **website: <http://www.unmc.edu>**. Qualified applicants holding the Ph.D., M.D., or D.V.M. degrees should send curriculum vitae, representative publications, and names/addresses/telephone numbers of three references to the attention of the Investigators named above at: **Epplley Institute for Cancer Research, University of Nebraska Medical Center, 986805 Nebraska Medical Center, Omaha, NE 68198-6805. UNMC is an Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS IN REPRODUCTIVE BIOLOGY NORTHWESTERN UNIVERSITY Evanston, Illinois

POSTDOCTORAL POSITIONS are available in reproductive biology for highly qualified applicants. A diverse but integrated program offers research training in molecular, biochemical, cellular, physiological, and behavioral aspects of reproduction. Participating faculty include: **Erwin Goldberg** (molecular biology of the testis), **Mary Hunzicker-Dunn** (ovarian signal transduction), **J. Larry Jameson** (hormonal regulation of gene expression), **Jon Levine** (neuroendocrinology of peptidergic neurons), **Daniel Linzer** (molecular endocrinology), **Kelly Mayo** (gene regulation in reproductive systems), **Fred Turek** (seasonal cycles/circadian clocks), **Teresa Woodruff** (ovarian physiology and molecular endocrinology), and **Catherine Woolley** (hormonal regulation of plasticity in brain). Send curriculum vitae and names of three references to: **Dr. Teresa K. Woodruff, Department of Neurobiology and Physiology, Northwestern University, 2153 North Campus Drive, Evanston, IL 60208-3520**. Applicants must be eligible for NIH training support (U.S. citizen or permanent resident). An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available immediately to participate in NIH-sponsored projects investigating the molecular mechanisms regulating ceramide-dependent biologies. Projects include (1) interactions between sphingolipid and tyrosine kinase-signaling pathways in regulating neuronal survival and death, (2) regulation of adipogenesis by ceramide, and (3) identifying molecular mechanisms regulating altered neurotrophism in diabetic neuropathy. A Ph.D. degree and strong background in molecular biology and biochemistry are required. Send curriculum vitae with three references to: **Dr. Rick Dobrowsky, University of Kansas, Department of Pharmacology and Toxicology, 5064 Malott Hall, Lawrence, KS 66045. E-mail: dobrowsky@ukans.edu. Equal Opportunity/Affirmative Action.**

POSTDOCTORAL POSITION: Two years of research training in immune tolerance in lupus; laboratory of **Bevra Hahn** at UCLA. Stipend: \$30,000 to \$50,000 per year. Require M.D. with training in rheumatology or Ph.D. with recent experience in relevant basic research. Contact e-mail: swaelder@mednet.ucla.edu; FAX: 310-206-8606.

POSITIONS OPEN

NMR POSTDOCTORAL POSITION

An NMR Postdoctoral position is available in the Chemistry Department at Wake Forest University, Winston-Salem, North Carolina. This position will combine day-to-day operation of the Departmental NMR facility with the opportunity to teach an NMR spectroscopy course. The position is available immediately.

The NMR facility is equipped with two newly installed (1999) Bruker AVANCE shielded NMR systems consisting of a three-channel 500MHz spectrometer with z-axis gradients, TBI and BBO probes, and VT capability, as well as a 300MHz system with a quad probe.

The NMR position of the position involves working with the instrument manager on routine maintenance of the NMR spectrometers, training students on the use of instrumentation, implementing new experiments, collaborating with research faculty on NMR experiments, and maintaining the SGI workstations in the facility.

The successful candidate should have a Ph.D. in chemistry or biochemistry with considerable experience in NMR instrumentation and methods, including multidimensional heteronuclear experiments. The term for the Postdoctoral position is one year, renewable upon mutual consent. Candidates should send curriculum vitae, three letters of reference, and a one-to-two-page statement of research experience and professional goals to:

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POSTDOCTORAL POSITION immediately available in a cell biology laboratory in the Department of Cellular and Structural Biology at the University of Colorado Health Sciences Center to study the structure and function of the Golgi complex (*J. Cell Biol.* 139:339, 1998; *Electrophoresis* 18:2601, 1997). We have taken a global proteomics approach to identify a nonbiased protein complement of the organelle in various cell types. We have identified multiple proteins of unknown function and are seeking a Postdoctoral Fellow with solid experience in cell biology, molecular biology, and/or biochemistry to work on the functional characterizations. Techniques include cell fractionation and immunoisolations, 2-D gel electrophoresis, mass spectrometry, cell culture, and electron and light microscopy. Send (or FAX) curriculum vitae, two letters of reference, and a statement of interest to: **Dr. Kathryn Howell, Department of Cellular and Structural Biology, University of Colorado Health Sciences Center, 4200 East Ninth Avenue B-111, Denver, CO 80262. Telephone: +1-303-315-6248; FAX: +1-303-315-4729; e-mail: christine.wu@UCHSC.edu. The University of Colorado is an Equal Opportunity/Affirmative Action Employer.**

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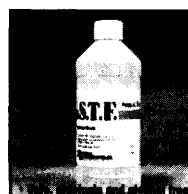
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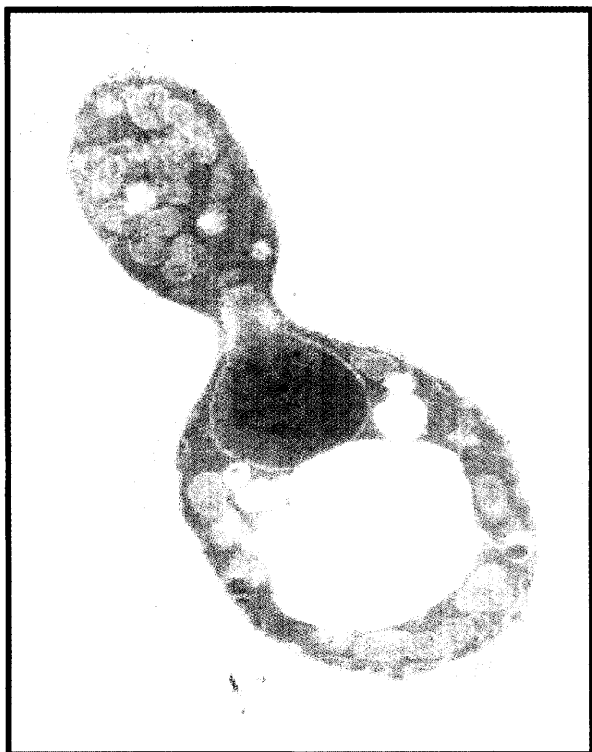
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1. Martzen, M, *et al.* (1999) *Science* 286 (5442) : 1153.

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Ref: 1. Erdeniz N, Mortensen UH, Rothstein R. (1997) *Genome Research* 12, 1174-83.

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