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NEW PRODUCTS

APOPTOSIS MRNA QUANTITATION

New kits are available to quantitate the mRNA levels of genes involved in apoptosis. The Amplifluor Apoptosis Gene Systems make use of reverse-transcriptase polymerase chain reaction (RT-PCR) featuring novel fluorescence energy transfer-labeled primers that fluoresce only upon their incorporation into the PCR product. Unincorporated Amplifluor primers are "silent," permitting homogeneous fluorescence PCR signal amplification. A key advantage of this homogeneous reaction is that PCR and fluorescence detection can occur within the reaction vessel without further processing steps (such as purification or capture strategies) prior to quantitation. Detection can be achieved using a choice of fluorescence measuring devices, including most real-time measuring instruments and endpoint instruments such as fluorometers, spectrofluorometers, and fluorescence imaging gel systems.

Intergen

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can occur within the reaction vessel without further processing steps (such as purification or capture strategies) prior to quantitation. Detection can be achieved using a choice of fluorescence measuring devices, including most real-time measuring instruments and endpoint instruments such as fluorometers, spectrofluorometers, and fluorescence imaging gel systems.

HYBRIDIZATION KIT

The Super Hyb Kit offers high hybridization sensitivity in Northern, Southern, and dot-blot hybridization. It is a complete system that includes hybridization, prehybridization, and wash solutions. The high sensitivity of the kit allows detection of rare mRNA in total RNA and eliminates the need to isolate poly A⁺ RNA. The kit increases hybridization efficiency by blocking nonspecific binding of probes and by several-fold augmentation of the binding of probes to target sequences. High-stringency posthybridization washes can be performed at room temperature.

Molecular Research Center

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ANTIBODIES

The Anti-Luciferase pAb is a goat polyclonal antibody to detect luciferase expression in situ. A new antibody is available to detect phospho-specific (serine 473) Akt, an important enzyme for the study of cell survival. The antibody, Anti-pS⁴⁷³ Akt pAb, is a rabbit polyclonal antibody. Both of these antibodies are designed for

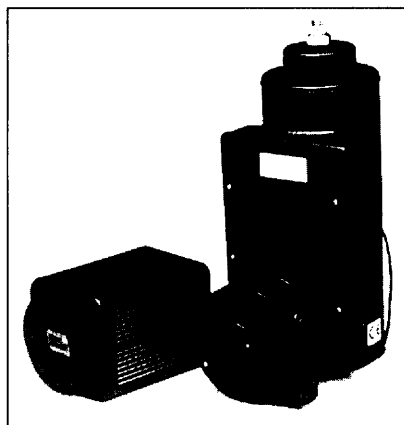
Promega

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use in immunocytochemistry and protein immunoblot analysis. A new antibody is also available to detect release of cytochrome C, an important electron-carrier protein identified as essential to the mitochondrial respiratory process and to apoptosis. The Anti-Cytochrome C monoclonal antibody is for use in immunocytochemistry applications.

CCD-BASED SPECTROSCOPY

Spec-10 is a high-performance, ultra-low-noise, charge-coupled device-based (CCD) detection system designed for spectroscopy. The Spec-10 offers a number of exclusive front- and back-illuminated CCDs that boast an optimal pixel size (20 μ m by 20 μ m) for maximum full well and spectral resolution, as well as rectangular array formats to provide fast spectral rates (small



heights) and full spectral coverage (large widths). The Spec-10 is particularly well-suited for Raman, fluorescence, chemiluminescence, and emission spectroscopy.

FILTER PLATES

AcroWell filter plates with BioTrace NT and BioTrace polyvinylidene fluoride (PVDF) membranes strongly bind biomolecules such as DNA and protein. The upstream binding membrane is supported and protected by hydrophobic polytetrafluoroethylene (PTFE). The lower membrane acts as a barrier to passive flow, allowing long incubations with the wells filled with hy-

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bridization and immunodetection solutions. A central hole in the hydrophobic PTFE layer of each well allows fluid to pass under applied vacuum or centrifugation. The small hole size prevents solution loss during extended or high temperature incubations. The double-layer membranes are sealed to the bottom of the plate using a proprietary sealing technology that eliminates cross-talk between wells, allowing adjacent wells to contain different probe mixtures without cross-contamination.

LITERATURE

Biovision Quality Products for Apoptosis Research is a brochure featuring apoptosis detection kits and reagents for research and pharmaceutical applications. Products include a mitochondrial apoptosis detection kit, a complete selection of caspase assay kits, active recombinant human caspases, ready-to-use caspase inhibitors, various annexin V apoptosis detection kits, a quick apoptotic DNA ladder detection kit, an in situ DNA fragmentation assay kit, apoptosis inducers, a quick cell proliferation assay kit, a cytotoxicity assay kit, and many apoptosis-related antibodies.

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The Medical University of South Carolina is the state's largest medical complex and comprises six academic colleges: Dental Medicine, Graduate Studies, Health Professions, Medicine, Nursing and Pharmacy, and the University Medical Center. The campus occupies over 50 acres and 117 buildings. The University has an annual budget of \$900 million including \$100 million in extramural research and sponsored programs. The University employs over 9,000 staff, including 1,300 faculty members and 600 house staff, and serves 2,300 students. The Vice President for Medical Affairs and Dean of Medicine is the Chief Medical Officer for the Medical Center, providing leadership for academic functions for its programs. As chief academic and administrative official for the College of Medicine, the Dean will guide the development and articulation of the vision for the College, encouraging programs consistent with the mission and promoting high standards of accomplishment. The Vice President/Dean has overall responsibility for the College of Medicine and leading the College's strategic and long-range plans, recruiting chairs and directors, maintaining a faculty of excellence and educational programs of the highest quality, enhancing the already extensive research initiatives, facilitating linkages between the clinical and basic sciences, integrating the clinical system, working with academic hospital partners, interacting with state legislature and public at large, and promoting the quality of life on the Medical University campus for both faculty and students. Qualified applicants should demonstrate (1) a distinguished record of scholarly and professional achievement that merits an appointment with tenure at the rank of FULL PROFESSOR; (2) senior experience that indicates ability to lead a complex academic medical center; (3) recognition for excellence in academic clinical practice and leadership; (4) commitment to excellence in research and experience with linking biomedical research activities to clinical practice; (5) commitment to excellence in education at all levels of the medical experience; (6) ability to raise resources for the activities of an academic medical center; (7) ability to plan strategically and work collaboratively with others, both within MUSC and outside; and (8) effectiveness in representing the programs and needs of an academic medical center to governmental and other groups. Please send letters of inquiry, nominations, and applications to:

Peter Cotton, M.D., F.R.C.P.
Chair, Search Committee for Vice President/
Dean College of Medicine
c/o Office of the Provost
Medical University of South Carolina
171 Ashley Avenue, Suite 200-H
P.O. Box 250002
Charleston, SC 29425

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SENIOR POSTDOCTORAL POSITION in cancer research available immediately. Project involves analysis of genes expressed in anticancer drug resistance. A Ph.D. and a strong background in molecular biology techniques are required, as is familiarity with mammalian and yeast cell culture techniques. Salary is commensurate with experience. Please send or e-mail a letter providing a brief synopsis of research experience and plans, current curriculum vitae, and names of three references to: William T. Beck, Ph.D., Departments of Molecular Genetics and Pharmaceutics/Pharmacodynamics, University of Illinois at Chicago (M/C 669), 900 South Ashland Avenue, Chicago, IL 60607-7173. E-mail: wtbeck@uic.edu. The University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

DEPARTMENT OF BIOCHEMISTRY

The Department of Biochemistry at the University of Alberta is undergoing a rebuilding and invites applications for academic positions, preferably at the ASSISTANT PROFESSOR level. The positions are entries into the regular tenure-track progression of the University. Successful candidates are expected to secure extramural funding to support high-quality research programs. We are particularly interested in applicants whose research program is in areas like computational biology, mass spectroscopy, proteomics, peptide design, single cell biology, membrane structural biology, and cryoelectron microscopy. (See website: www.biochem.ualberta.ca for existing strengths.) We offer an outstanding research environment. Department members participate in a strong graduate program and have modest undergraduate teaching responsibilities. An attractive start-up package, including four years of initial salary support, will be provided. Individuals with a Ph.D. or equivalent and appropriate postdoctoral experience should send a letter of application, curriculum vitae, brief description of research plans, and arrange to have three letters of reference sent by July 31, 2000, to: Dr. B. D. Sykes, Chair, Department of Biochemistry, 474 Medical Sciences Building, University of Alberta, Edmonton, Alberta T6G 2H7 Canada. The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIP). The University of Alberta hires on the basis of merit. We are committed to the principle of Equity in Employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and aboriginal persons. In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. If suitable Canadian citizens and permanent residents cannot be found, other individuals will be considered.

ASSISTANT/ASSOCIATE PROFESSOR LEVEL TWO POSITIONS OPEN

The Department of Pharmacology and Neuroscience at the University of North Texas Health Science Center is seeking applications for two full-time tenure-track faculty positions at the Assistant/Associate Professor level. Successful applicants will be expected to develop an independent but interactive research program, an active graduate/postgraduate training program, and participate in the professional course offerings of the Department. The Department intends to expand its active and well-funded research and training programs in the areas of neurobiology of aging, drug discovery, behavioral pharmacology, molecular pharmacology, and substance abuse/addiction. Applicants should submit a letter of intent, current curriculum vitae, and the names of at least three references to: Dr. James W. Simpkins, Professor and Chair, Department of Pharmacology and Neuroscience, University of North Texas Health Science Center, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107-2699.

The University of North Texas Health Science Center at Fort Worth enjoys a smoke-free campus and is an Equal Employment Opportunity/Affirmative Action Institution.

ANTICIPATED ASSISTANT PROFESSOR VETERINARY ANATOMY AND CELL BIOLOGY

Required qualifications: Ph.D. or equivalent degree in a biological science or biomedical sciences; postdoctoral experience; research background in cell/molecular biology; ability to teach in a departmental course in the professional curriculum; have or will have extramural funding. Salary will be competitive. Application deadline is July 28, 2000, or until candidate is selected. Submit letter of application and résumé to: Gary E. Wise, Ph.D., Veterinary Anatomy and Cell Biology, Louisiana State University, Reference #000878, Baton Rouge, LA 70808. Telephone: 225-346-3246.

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NATIONAL INSTITUTES OF HEALTH
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Post-doctoral Fellow: Infectious
Diseases Research in Virology

Position will be available in the Respiratory Viruses Section of the Laboratory of Infectious Diseases. The research involves human respiratory syncytial virus and focuses on the use of new recombinant virus recovery systems to examine basic questions of molecular virology, viral pathogenesis, host responses and vaccine development. This full-time research position offers a unique opportunity to work on investigations that range from basic molecular biology to applied vaccinology. The project provides excellent training for postdoctoral scientists within five to seven years of receiving their Ph.D. and for M.D.s at all levels of training who plan a career in infectious diseases research. The position involves collaborative research between Drs. Peter Collins and Brian Murphy. Starting salary ranges from \$31,500 to \$45,500 and will be commensurate with experience. Please send curriculum vitae and three letters of reference to:

Dr. Peter L. Collins
LID, NIAID, NIH
Bldg. 7, Room 104
7 Center Drive, MSC 0720
Bethesda, MD 20892
Fax: 301-496-8312
Email: pcollins@niaid.nih.gov

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The Neuro-Oncology Branch of the National Cancer Institute and National Institute of Neurologic Disorders and Stroke of the National Institutes of Health are currently recruiting several postdoctoral level scientists to work in the area of experimental protein therapeutics, vector targeting, and glial tumor cell biology. The successful candidates should have an M.D. or Ph.D. and have received training in molecular/cellular biology and/or protein chemistry. Laboratory projects include the study of primary glial neoplasms and neural stem cells for the purpose of identifying novel anti-tumor targets, development of high throughput screens, peptide antagonists, and genetic vectors. Experience with either viral or non-viral vectors, creation and screening of cDNA or peptide libraries, phage display, expression array technology, or stem cell biology would be desirable.

Please send curriculum vitae, statement of research interests and two letters of reference to:

Karen Berlane
Neuro-Oncology Branch
National Cancer Institute
10 Center Drive, MSC1911
Building 10, Room 12S245
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Ph.D. Biochemical Pharmacology- CNS

The successful candidate will provide leadership in areas of receptor, ion channel, and/or transporter biochemistry. Will work in accordance with CNS Portfolio priorities, to aid in structure activity relation studies on newly synthesized molecules, and candidate profiling during lead identification. Responsibilities include secondary assay development; assay automation & implementation, providing a technology base (esp. FLIPR) and data management & communication.

This position requires 3 or more years of experience in drug discovery and development, esp. in CNS disorders, demonstrated ability to develop and/or run biochemical assays, and a record of scientific excellence as demonstrated by publications on the subject of drug interaction with ion channels, receptors, and transporters. Several of the following technical capabilities are also required: assay automation; ELISAs; radiochemical assays; receptor binding assays; second messenger assays; enzyme assays; fluorescence (including FLIPR), absorbance assays, and luminescence assays; cell culture; molecular biology. Must also have experience with databases and data management and an understanding of the drug discovery process, esp. lead identification and the prediction of side-effect liability of candidate molecules. Ideal applicants will possess strong written and oral communication skills, be able to work well independently and as a team member. Preferred degree: Ph.D. or equivalent degree in biochemistry, biology or related discipline. This position is ideally suited for a pharmacologist experienced in structure activity relationships.

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CENTER FOR BEHAVIORAL NEUROSCIENCE Postdoctoral Positions Available

The Center for Behavioral Neuroscience invites applications for postdoctoral fellowships. The Center for Behavioral Neuroscience, a National Science Foundation Science and Technology Center, has been established by a consortium of institutions in the Atlanta metropolitan area, including Clark Atlanta University, Emory University, Georgia State University, Georgia Institute of Technology, Morehouse College, Morehouse School of Medicine, Morris Brown College and Spelman College. The Center represents an interdisciplinary effort to define the interaction between brain processes and complex behaviors, especially social behaviors. The Center will sponsor 10-12 postdoctoral fellows each year to be an integral part of the Center's interdisciplinary research teams, technology cores and educational outreach programs. Applicants must hold an MD or PhD or equivalent degree from a recognized institution of higher learning. Successful applicants will be those who have a strong science background and are committed to developing (1) an interdisciplinary approach for addressing questions fundamental to behavioral neuroscience or (2) innovative education strategies for teaching behavioral neuroscience. Fellows will be eligible for 2-3 years of Center support commensurate with achieving goals agreed to by the Center, mentor(s) and fellow. Fellows will be expected to submit NRSA or equivalent application for support beyond the period of Center support.

Please visit the Center website at www.cbn-atl.org to identify specific projects or collaboratories of interest.

Applications can be sent at any time. First review date is June 15, 2000. To apply, please submit (1) official copies of graduate transcripts; (2) CV; (3) a statement regarding career goals and how a Center postdoctoral fellowship will help achieve these goals; and (4) three letters of recommendation. Submit materials to: **Thomas R. Insel, MD, Center for Behavioral Neuroscience, Yerkes Research Center, Emory University, Atlanta, GA 30322.** Women and minorities are particularly encouraged to apply. AA/EOE

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Candidates should apply by submitting a curriculum vitae and the names of three references by June 30, 2000 to:

Marc Lalande, Ph.D.
Professor and Chair
Department of Genetics and
Developmental Biology
The University of Connecticut
Health Center
School of Medicine
Farmington, CT 06030-3301

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Direct a CV, statements of research experience and specific future goals, and references to oliver@helix.nih.gov, or chandra@nhgri.nih.gov.

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Division of Cancer Treatment and Diagnosis Diagnostics Research Branch

Opening Date: 5/24/00 Closing Date: 7/19/00

Announcement Number: NCI-00-2312

GS-601/602/401/403/1320-13/14

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To obtain the mandatory course requirements and other necessary application information, please visit: <http://careerhere.nih.gov>, vacancy announcement, NCI-00-2312. You may also call (301) 594-2953 to request a fax copy of the vacancy announcement, (Fax ID: 1911). Send application to:

NIH/NCI/HRMCB, Executive Plaza South, Suite 550, 6120 Executive Blvd., MSC 7209, Rockville, MD 20852-7209 by the closing date of 7-19-2000.

For more information, contact Barbara A. Conley, M.D., at (301) 496-1591.

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Postdoctoral Research Associate

The Medical Department of Brookhaven National Laboratory currently has a research associate position available in the Space Radiobiology Group. This group, under the direction of M. Vazquez, will examine the molecular and cellular responses of neuronal cells to the space environment. Emphasis is placed on the effects of radiation (heavy ions) and neurotoxins using in vitro neuronal cell systems. Additional responsibilities include support of users for a NASA sponsored space radiobiology research program. Requires a Ph.D. in cell/molecular biology and several years' postdoctoral and other research experience in the field of radiobiology and/or neurobiology. Candidates should have expertise in a wide range of molecular and cellular activities, including cell culture methods, cloning, immunocytochemistry and flow-cytometry. Expertise in the areas of in vitro neurotoxicology and heavy ion radiobiology is highly desirable.

Interested candidates should send their CV and three letters of reference, referring to position MK 8587, to M. Kipperman, Brookhaven National Laboratory, Bldg. 185, P.O. Box 5000, Upton, NY 11973-5000. BNL is an equal opportunity employer committed to workforce diversity. Visit our website: www.bnl.gov.

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ON-LINE LECTURER IN BASIC SCIENCES DEPT.

The Basic Sciences Dept. at the University of Health Sciences Antigua School of Medicine is extending an invitation to individuals with Ph.D. or M.D. or a combination of both Ph.D. and M.D. degrees with teaching experience in one of the following fields:

- | | |
|-----------------|---------------------------------|
| 1. Anatomy | 7. Microbiology |
| 2. Physiology | 8. Immunology |
| 3. Biochemistry | 9. Biostatistics & Epidemiology |
| 4. Neuroanatomy | 10. Community Health |
| 5. Histology | 11. Pathology |
| 6. Embryology | 12. Medical Jurisprudence |

The participants would provide On-Line Basic Science Lecture Presentations (OLBSLP) to our first and second year medical students. OLBSLP is a global feature added to our curriculum and specifically designed for sharing of knowledge with faculty from different parts of the world. Individuals chosen are expected to continue to hold their position if presently employed.

If interested, send CV and references to:

Search Committee
University of Health Sciences Antigua
School of Medicine, Dept. of Basic Sciences
Dowhill Campus, Piccadilly
P.O. Box 510, St. John's, Antigua, West Indies
Tel. 1-268-460-1391; Fax: 1-268-460-1477
E-mail: fmcp@uhsa.edu.ag
uhsa@candw.ag

Research Scientist Stem Cell Biology

Diacrin Inc., a leader in cellular transplantation, is seeking a highly motivated scientist to develop novel cell-based therapies using human stem cells. You will be responsible for expanding our current efforts to develop proprietary methods for isolation, expansion and differentiation of stem cells. These stem cells are to be used to meet the clinical demands for treating Parkinson's disease, stroke, focal epilepsy, intractable pain, spinal cord injury repair, cardiac repair and other diseases.

A Ph.D. in the field of cell biology or neuroscience and a strong track record of innovative research are essential. A published history of research in stem cells derived from neural, hematopoietic, mesenchymal or other tissue sources is also required.

Diacrin is a publicly traded biotechnology company which is developing transplantable cells for the treatment of human diseases characterized by cellular dysfunction or cell death for which current therapies are either inadequate or nonexistent. Please send curriculum vitae to:

Ms. Joslyn Pulles,
Diacrin, Inc.,
Building 96, 13th
Street, Charlestown,
MA 02129. E-mail:
jpulles@diacrin.com.
Fax: (617) 242-0070.
EOE
www.diacrin.com



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R&D PROFESSIONALS

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If you have an intense desire to make our next innovation your claim to fame, opportunities are now open at the following operating company.



Ortho Biotech Inc., located in Raritan, New Jersey, markets products derived from biotechnology research including PROCIT, to treat anemia in a range of medical conditions including HIV, cancer and preoperative patients.

Scientist/Senior Scientist

In this role, you will develop and validate a cell-based bioassay for quality control testing of a biopharmaceutical product, and transfer the method to other laboratories. Additionally, you will design and conduct investigations to resolve assay performance problems, develop improved bioassay test methods to replace existing methods, and perform testing to support process validations.

To qualify, you must have a master's degree in a scientific discipline and at least 5 years of experience in an industrial laboratory setting, or a Ph.D. Knowledge of bioassay techniques and experience with quality control testing for biotechnology products in a GMP environment is preferred. A background with laboratory automation is desired, as is a familiarity with word processing programs, spreadsheets and databases. Excellent oral/written communications, organizational and interpersonal skills are essential. **Req. Code 000370SCI**

Scientist/Senior Scientist

In this role, you will be responsible for maintaining analytical methods development and validation; providing technical support and troubleshooting for current release methods.

To qualify, you must have a bachelor's degree (preferably in biochemistry or a related science) and 7+ years of experience (or a master's degree and 2+ years of experience, or a Ph.D.). A background in protein chemistry and analytical methodologies (such as HPLC) is required, as are good computer skills. Previous experience characterizing proteins and carbohydrates is a plus. Familiarity with LIMS and chromatography data acquisition systems (such as Chemstation) is desired. Excellent oral/written communications, organizational and interpersonal skills are essential. **Req. Code 000372SCI**

As a valued team member, you'll receive a competitive salary and great benefits including medical/dental, a 401(k), a pension plan and a comprehensive wellness program. Please apply directly on-line at our web site www.jnj.com or forward a scannable resume, noting operating company as Ortho Biotech Inc. and **Req. Code**, to: **Johnson & Johnson Recruiting, P.O. Box 16597, New Brunswick, NJ 08906-6597**. Please note, resumes received electronically via www.jnj.com are reviewed within 24 hours. Mailed resumes are reviewed within 3 business days after receipt. We are an equal opportunity employer totally committed to diversity.

Johnson & Johnson

FOR FURTHER DETAILED INFORMATION REGARDING JOB RESPONSIBILITIES,
WE HIGHLY RECOMMEND YOU VISIT OUR WEB SITE.

www.jnj.com

THE UNIVERSITY OF OKLAHOMA



Chair, Department of Pharmaceutical Sciences

The College of Pharmacy of the University of Oklahoma Health Sciences Center invites applications and nominations for the position of **Chair, Department of Pharmaceutical Sciences**. The Department comprises the disciplines of Pharmacology, Toxicology, Pharmaceutics, Medicinal Chemistry and Nuclear Pharmacy. Applications must have a Ph.D. or equivalent degree and recognized success in research, teaching, and faculty leadership in a basic science department. Candidates with a research background relevant to the areas listed above will be considered. The successful candidate is expected to be committed to a strong research program in the Department and to professional and graduate training. The position provides open faculty lines, an expanding graduate program, and outstanding laboratory space. Applications will be accepted and reviewed until the position is filled. The review of applications will begin August 1, 2000. Please submit a curriculum vitae, reprints of seminal manuscripts, and names and addresses of three references to:

Laurence D. Fechter, Ph.D./Chair, Search Committee
Professor and Director, Center for Toxicology
University of Oklahoma Health Sciences Center
P.O. Box 26901, Oklahoma City, OK 73190
<http://www.cpb.uokhsc.edu>

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

Funding Now Available for Research on the

Neurobiology of the ATM Protein

- Up to \$75,000 per year
- Rapid, 30-day peer review decision process
- Early start date possible
- Application process not too burdensome

Grants are now available to support efforts aimed at understanding the neurodegeneration seen in patients with ataxia-telangiectasia (A-T), as well as efforts focused on identifying therapeutic interventions. A major objective of new grant awards will be to elucidate the functional role of the ATM protein in the development and maintenance of the brain, in collaboration with other labs that have already developed reagents such as ATM knock-out mice, monoclonal antibodies and biochemical assays for ATM activity.

Competitive awards will be given to researchers for one- and two-year projects to be funded up to a total direct cost of \$75,000 per year. No administrative overhead or fixed costs are supported.

Scientific excellence, originality and direct relevance to A-T neurodegeneration are the paramount criteria in award decisions. There is no formal deadline date for the submission of proposals. Decisions will be made within 30 days after proposals are received and grant periods can begin as early as 15 days after the grants are awarded.

For grant proposal guidelines, contact the A-T Children's Project or visit our web site.



668 South Military Trail
Deerfield Beach, FL 33442-3023 U.S.A.
Web site: www.atcp.org

Phone: (954) 481-6611
Fax: (954) 725-1153
E-mail: rosa@atcp.org

**FACULTY POSITIONS
MOLECULAR NEUROSCIENCE
THE UNIVERSITY OF IOWA**

The Department of Physiology and Biophysics invites applications for one or more tenure-track faculty positions in the area of molecular neuroscience. Neuroscience at The University of Iowa is committed to continuous growth that builds on strengths in gene therapy, neurodegenerative disorders, and neurogenetics. The Department has programs of excellence in molecular, cellular, and integrative physiology and participates in interdisciplinary research centers and programs throughout the University. Applicants who complement current departmental research in gene regulation and development, signal transduction, and membrane function are especially encouraged to apply. Applicants must have a Ph.D. and/or M.D. degree, at least two years of relevant postdoctoral training and a strong record of research accomplishment supported by publication. Excellent salary and start-up support is provided. For more information, see www.physiology.uiowa.edu.

To apply, send a curriculum vitae, statement of research plans, representative publications and three letters of reference to:

**Neuroscience Search Committee
Department of Physiology and Biophysics
University of Iowa College of Medicine
Iowa City, IA 52242-1109
email neurosearch@physiology.uiowa.edu**

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

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PROGRAM DIRECTOR OF SPORES

NCI-00-3120 - GS-601/602-13/14 - Opening Date: May 15, 2000 - Closing Date: June 26, 2000

The National Cancer Institute is seeking qualified applicants for a Program Director position at the Organ Systems Branch (OSB). The OSB manages an extramural multi-disciplinary translational research program termed Specialized Programs of Research Excellence (SPORES). SPORES are teams of extramural basic, clinical, and population scientists who focus on a single organ-site cancer and dedicate themselves to translational research that will have an impact on early detection, prevention diagnosis and treatment of human cancer. The NCI defines translational research as the movement of laboratory discoveries into patient and population research settings or observations in patients and populations back into research laboratories. The incumbent will function as a key member of the OSB extramural staff and will be responsible for the management, planning, implementation, and coordination of breast, ovarian, prostate, lung, gastrointestinal, head and neck, brain tumor, lymphomas and leukemia SPORES. In addition, the incumbent will be responsible for promoting and facilitating interactions among SPORES, between SPORES and the scientific community, and between the SPORE program and other extramural units of the NCI, and the NIH.

BASIC QUALIFICATIONS:

U.S. Citizenship is required. Applicants must meet the basic experience and educational qualifications for U.S. Government Medical Officer and or Health Scientist Administrator positions. In order for qualifications to be validated and considered, it is mandatory that you submit the following with your application: a) an undergraduate and graduate transcript or course list which includes grades and semester hours received per course for all courses; b) a current curriculum vitae; and, c) a description of your proficiency in the following Knowledge, Skills, and Abilities (KSAs):

- 1) Knowledge of Federal grant application, review and management process, including site visit planning, organization and execution.
- 2) Knowledge of basic, clinical and/or population cancer research.
- 3) Ability to plan, develop, and evaluate research programs, including the formulation of program objectives and goals and assessing research programs.
- 4) Ability to establish and maintain professional relationships with scientists in academia, industry and government.
- 5) Ability to communicate scientific information orally and in writing.

SALARY RANGE AND FRINGE BENEFITS:

Salary ranges from \$60,890 to \$106,071 per annum.
Benefits include health and life insurance, retirement, paid holidays, vacation and sick leave.
Salary includes locality pay.

NIH is an Equal Opportunity Employer



Organ Systems Branch

APPLICATION PROCEDURES:

The NCI recruitment bulletin for this position contains complete application procedures and lists all mandatory information which you must submit in your application. To obtain the recruitment bulletin, call 1-800-728-JOBS (for local calls, 301-594-2953). When prompted, enter the "Fax ID Number" 1937. You will be prompted for your fax machine number. If you have any questions on qualification requirements or application procedures, or if you wish to obtain a position description or other information, please call (301) 402-2812.

PREVIOUS APPLICANTS NEED NOT REAPPLY.

Please submit your resume, SF-171 Application for Federal Employment or OF-612 Optional Application Form by the closing date to:

National Cancer Institute
National Institutes of Health
Human Resource and
Consulting Branch
6120 Executive Boulevard,
MSC 7211
Executive Plaza South, Suite 550
Rockville, Maryland 20852-7211



UNIVERSITY OF FLORIDA

Institute of Food and Agricultural Sciences

IFAS seeks to fill several faculty positions.

The Institute of Food and Agricultural Sciences (IFAS), I'-fus, is one of the nation's largest agricultural and natural resources research and education organizations. IFAS includes 21 academic departments, 14 research and education centers located throughout Florida, Cooperative Extension units in each of the 67 counties and the Seminole Tribe, and 5 interdisciplinary units. IFAS embodies the land-grant component of the University of Florida, an institution with an enrollment of more than 43,000 students and a member of the Association of American Universities. The website <http://www.ifas.ufl.edu/> provides additional information.

"Florida **FIRST**" is the combined mission and planning effort of IFAS; it stands for **F**ocusing **I**FAS **R**esources on **S**olutions for **T**omorrow. This public-private partnership draws on core strengths and values to enhance the IFAS land-grant mission of shaping Florida's future and serving its people. Key focus areas are the expansion of domestic and international business; enhancement of natural resources; providing consumers with the wide variety of safe and affordable foods; supporting community development; providing enhanced environments for homes, work places and vacations; maintenance of a sustainable food and fiber system; and improving the quality of life.

Assistant Professor positions are currently available in the following subjects:

- | | |
|---------------------------------|---|
| • Robotics | • Food Chemistry |
| • Food Safety/Animal Production | • Biotechnology/Genomics |
| • Landscape Plant Entomology | • Environmental Horticulture |
| • Family & Consumer Economics | • Forestry (Silviculture) |
| • Estuarine Ecology | • Statistical Genomics |
| • Forest Hydrology | • Agricultural & Biological Engineering |
| • Food Service/Food Retail | • Forest Management |

For further description of the positions and application procedures, please access the IFAS Personnel Affairs web site <http://personnel.ifas.ufl.edu/> or contact the IFAS Personnel Office (352) 392-4777.

The University of Florida is an equal opportunity, equal access, affirmative action employer. The "government in the sunshine" laws of Florida require that all documents relating to the search process, including letters of application/nomination and reference, be available for public inspection. Persons with disabilities have the right to request and receive reasonable accommodation.



ProteinChip® Technology

Ciphergen Biosystems is currently expanding its US and European operations and looking for ambitious, commercially minded Ph.D. biochemists/biologists with excellent communication skills and proven problem solving abilities, at the following locations:

Chicago, Atlanta, Washington, D.C., plus major European cities in France, Germany, Denmark, Switzerland, and Benelux.

In addition, Ciphergen is also looking for an experienced Program Sales Manager for the Central US region, Germany, Switzerland and Benelux.

Field Scientist

Preferably you will have substantial experience in **protein analysis, purification and/or characterisation** in one or more of the following disciplines:

- **Receptor-ligand interactions**
- **Proteomics / Biomarker discovery**
- **Immunology**
- **Protein chemistry**
- **Immunoassay development**

Your role will involve working alongside our clients' scientists, in both industry and academia, developing protocols and rapidly solving biological problems using Ciphergen's proprietary ProteinChip technology.

As well as being a talented research scientist, capable of strong analytical thinking and creativity, you will need good leadership and interactive skills as well as the ability to communicate effectively at all levels. The position involves extensive travel in your local area and occasionally trips to the head office in California.

Program Manager

Your role will be to manage your region's Field Scientists, liaising with customers, organizing demonstrations and most importantly selling Ciphergen's technology to new customers.

Join the Protein Renaissance

This is a unique opportunity to join a young, rapidly growing company that is working at the forefront of the 'Protein Renaissance'. You will have the opportunity of working alongside our existing team of field scientists, as well as with our customers who are involved at the leading edge of research into the diagnosis, treatment and cure of the most challenging diseases facing us today.

We offer an excellent compensation package, including stock options. Please visit our website at www.ciphergen.com and send your resume to:

US Resumes:
Ciphergen Biosystems, Inc.
Attn: Human Resources
490 San Antonio Road
Palo Alto, CA 94306

European Resumes:
Ciphergen Biosystems Ltd
Attn: Human Resources
Surrey Technology Centre
The Surrey Research Park
Guildford, Surrey GU2 7YG
UK

Or e-mail resume to
cv@ciphergen.com
EOE



Ciphergen

fellowships

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

Science Policy >>> Opportunities in Washington, DC

The American Association for the Advancement of Science invites applications for one year public policy fellowships, which will bring scientists to Washington, DC, beginning in September 2001, to work in the Congress, the Department of State, the Agency for International Development, the Environmental Protection Agency, the Department of Agriculture, the Food and Drug Administration, the Department of Defense, and the RAND Science and Technology Policy Institute. The programs are designed to provide each Fellow with a unique public policy learning experience and to bring scientific backgrounds and external perspectives to decision-making in the U.S. Government. Applicants must be U.S. citizens and must have a Ph.D. at the time of application (January 2001) from any physical, biological, or social science or any relevant interdisciplinary field. Federal employees are not eligible for the fellowships. Stipends vary, with most in the \$50,000 range.

Application Deadline >>>

January 10, 2001

Information >>>

For further information & application instructions call, e-mail, or visit our Web Site.

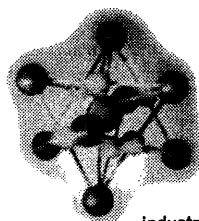
Phone 202/326 6700

E-mail science_policy@aaas.org

Web fellowships.aaas.org



AMERICAN ASSOCIATION FOR THE
ADVANCEMENT OF SCIENCE



SEATTLE

ZymoGenetics, Inc. is a biotechnology company located in Seattle's historic Lake Union Steam Plant. As a subsidiary of NOVO NORDISK, the world's largest producer of industrial enzymes, ZymoGenetics' mission is to identify protein therapeutic opportunities and to take selected projects as far as clinical proof of concept studies.

SCIENTIST/SR. SCIENTIST - #33R100

We are seeking an experienced Scientist/Sr. Scientist-level protein chemist to join the Protein Biochemistry Department. This position requires a Ph.D. in Chemistry/Biochemistry with experience in folding of recombinant proteins expressed in microbial systems. A solid background in protein purification and all protein analytical techniques is essential. Relevant knowledge should be demonstrated via publications, presentations and/or applicable industrial experience. We are looking for an individual who enjoys working in a team environment and has a strong set of interpersonal skills to interact with various levels of scientists throughout our research community. The successful candidate will actively work with a group of Research Associates. Experience in directing the efforts of a small team is desired.

RESEARCH ASSOCIATE/ASSOCIATE SCIENTIST - #43R100

We are currently seeking a senior Research Associate/Associate Scientist to join our Biophysical Analysis & Preformulation group in the Bioprocess Research Department. The successful candidate will develop and apply biophysical assays supporting bioprocessing, formulation, and in vivo evaluation of protein therapeutic candidates. This includes developing quantitative HPLC methods to determine production/purification yields, determining the stability-indicating nature of assay methods, evaluating in-process & purified protein stability, and identifying formulations suitable for preclinical/clinical evaluations. A strong working knowledge and proficiency with protein HPLC analysis is required. Additional experience with UV-Vis spectroscopy, circular dichroism, light scattering, calorimetry, electrophoresis, and other protein biophysical analysis techniques is preferred. A fundamental understanding of protein chemistry, protein stability, and protein formulation development is essential. Qualified applicants will possess a BS-MS in the Life Sciences or related field with several years of biopharmaceutical development or research-related experience.

We offer intellectual challenge, state-of-the-art facilities and a generous benefits package in a growth-oriented environment. For confidential consideration, forward your resume and cover letter to ZymoGenetics, Human Resources, Job Reference #, 1201 Eastlake Avenue East, Seattle, WA 98102; Fax: (206) 442-6658; E-mail: jobs@zgi.com. We are an equal opportunity employer and encourage applications from women and minorities.

ZYMO GENETICS

ANIMAL PROGRAM DIRECTOR

The National Institute on Drug Abuse (NIDA), National Institutes of Health (NIH) invites applications for a laboratory animal veterinarian to serve as Animal Program Director of an AAALAC International accredited animal care and use program. The Program includes primates, rodents and other species and is located at NIDA's Intramural Research Program (IRP), on the Johns Hopkins Bayview Campus in Baltimore, Maryland.

The successful candidate will oversee the staff of the current animal resources service of NIDA, and will provide expert supervision in laboratory animal medicine, routine diagnostics, surgical support for the research program, and training of animal program staff.

The selectee must possess experience with supervision of a transgenic animal breeding program. The supervisory and regulatory responsibilities of this position require the applicant to hold a veterinary degree (D.V.M., V.M.D., or equivalent). The well-qualified candidate must also have experience in a supervisory and management role with oversight and maintenance of an AAALAC International accredited research animal program. Also desirable is experience in design of a state-of-the-art animal facility. Prior experience with a variety of nonhuman primates (*Macaca mulatta*, *Saimiri sciureus*) and possession of or eligibility for board certification in laboratory animal medicine are highly desirable.

The starting salary is commensurate with qualifications and experience, and includes a full Federal benefits package. Relocation expenses may be paid.

How to Apply:

Applicants should send a curriculum vitae with bibliography of publications, three (3) letters of reference (at least two from non-collaborators), and a copy of doctoral degree to:

NIH/NIDA/IRP
5500 Nathan Shock Drive
Baltimore, MD 21224
Attention: Morgan DuBrow, Chief
Human Resources Management Section
Building C, Room 247
(e-mail: MDUBROW@intra.nida.nih.gov)

Closing Date:

No closing date for receipt of applications - open until filled. However, a cut-off for Search Committee review and evaluation will be established as necessary. Questions may be addressed to Mr. DuBrow on 410-550-1638 or by e-mail.

NIDA is an Equal Opportunity Employer. Applications from minorities and women are encouraged.

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.

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.

Vical, The Naked DNA Company™, is rapidly growing in anticipation of the launch of our first product and the expansion of product applications leveraging our patented nonviral gene delivery technology. Due to our growth we have the following opportunities at our **SAN DIEGO**, CA facility:

RESEARCH SCIENTIST

Requires a Ph.D with a minimum of 3 years post-doctoral experience with animal models, as well as experience with *in vivo* studies in rodents. Must possess a strong background in animal physiology, oncology and animal models of metabolic disease. A strong publication record in peer reviewed journals is essential. Additional responsibilities include: conducting original and applied *in vivo* research in the field of plasmid DNA gene delivery.

Job Code: 1157

RESEARCH SCIENTIST (PHARMACOLOGIST/TOXICOLOGIST)

Requires a Ph.D in Pharmacology/Toxicology with 2-3 years post doctoral experience or MS with 4-5 years experience. Must have experience in conducting pre-clinical, GLP pharmacology, toxicology and safety studies in animals. Strong background in animal physiology, pharmacology, toxicology, and experience with the preparation of regulatory submissions is essential. *Job Code: 1158*

For consideration, please send your resume (indicating position of interest) to: Vical Inc., Human Resources, 9373 Towne Centre Dr., Ste. 100, San Diego, CA 92121, or E-mail: cgoodall@vical.com EOE.



NATIONAL INSTITUTES OF HEALTH
NATIONAL EYE INSTITUTE

Job Opportunities

The National Eye Institute Intramural Program at the NIH campus, Bethesda, MD., is seeking highly qualified Postdoctoral Fellows, Research Associates and Staff Scientists in the following areas:

- Molecular Biology
- Cell Biology
- Immunology
- Psychophysics
- Biochemistry
- Epidemiology
- Biostatistics

Salaries range from \$29,000 to \$118,400 per annum, based on experience and type of appointment.

NEI offers an extensive benefits package that you may be eligible for, depending on the appointment mechanisms: Health Benefits, Life Insurance, Retirement Benefits, Annual and Sick Leave, Formal Training Program, Recruitment Bonus, Retention Allowance, Relocation Allowance, Loan Repayment Program, and Travel Benefits.

Candidates interested in specific job opportunities at the NEI may visit the NEI web site at <http://www.nei.nih.gov/> listing the most current positions available.

NIH/NEI is an Equal Opportunity Employer

Rapid Access to Intervention Development "RAID"

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

RAID, Office of Associate Director
Developmental Therapeutics Program, NCI
6116 Executive Blvd., Suite 500
Rockville, MD 20852
Tel: 301.496.8720; Fax: 301.402.0831
Email: sausville@nih.gov



WELCOME TO
THE WORLD
OF INFINITE
POSSIBILITIES.

We're Baxter Healthcare Corporation, a leading health care company and one of the world's foremost providers of critical therapies for life-threatening conditions. Our pioneering medical technology has resulted in innovative health care that has improved human life around the world. Our Hyland Immuno Division, a global leader in the pharmaceutical manufacturing industry, currently seeks talented individuals to join us at our Duarte, CA facility:

Manager II, Research

The successful candidate will lead, manage and coordinate execution of Process Development projects. Specific duties will include developing detailed project plans, including timelines, milestones and deliverables; acting as the technical expert on multiple function project teams; and providing leadership, mentoring and career development for staff including Ph.D. level scientists. This role will support Manufacturing as needed with a clear understanding of requirements and expectation of project goals. Candidates will possess a Ph.D. in Biochemistry or related science, with 1-2 years post doctoral and 4-7 years industrial experience. Experience in an international/global setting and knowledge of clinical research, drug regulations and global marketing strategies are desired. Strong interpersonal skills and demonstrated management/administrative capabilities are required.

Associate Research Scientist

The selected candidate will be responsible for biochemical and biophysical characterization of recombinant proteins. Specifically, you will work on purification of recombinant protein fragments and their characterization using mass spectroscopy. Qualified candidates will possess a Ph.D. degree in Protein Chemistry or Biochemistry, with 1-2 years of relevant post-Ph.D. experience. An in-depth knowledge of protein mass spectrometry and broad experience in protein chemistry a must. A solid background in HPLC, UV/VIS/fluorescence spectroscopy and protein/peptide analyses are also essential. A significant publication record is expected.

Research Associate II

The selected candidate will join a team of accomplished scientists to develop/execute bio-analytical procedures that characterize recombinant proteins. Qualified candidates will possess an MS degree and 2-4 years of relevant experience in biochemistry, to include proficiency with the biochemical analyses of proteins (HPLC, ELISA, SDS-PAGE, Western Blotting, UV/VIS spectroscopy).

As a global leader dedicated to building the best team in health care, Baxter offers competitive compensation and full benefits. For consideration, please send/fax your resume, indicating position of interest, to Attn: Marty Blinde: 626-305-5020 (fax); marty_blinde@baxter.com (e-mail)
• www.baxter.com • EOE M/F/D/V

Baxter

POSITIONS OPEN

DEPARTMENT OF COMPUTER ENGINEERING AND COMPUTER SCIENCE: BIOINFORMATICS University of Missouri-Columbia

We are soliciting applications for a senior position in bioinformatics at the **ASSOCIATE** and **FULL PROFESSOR** level funded by the MU Mission Enhancement of Life Sciences. This position will be located in the Department of Computer Engineering and Computer Science but will be required to interact with various departments and research projects in crop genomics, in particular the Missouri Maize Genome Project. The main research emphasis will be computational biology and biological databases. Candidates must have an outstanding research and excellent funding record in computer science or computational biology. The successful candidate will be expected to establish a quality research program and teach both graduate and undergraduate courses in the Department. Send résumé, a statement of teaching and research plans, and three references to: **Professor Su-Shing Chen, Chair, Department of Computer Engineering and Computer Science, University of Missouri-Columbia, Columbia, MO 65211-2060.** Review of applications will begin August 1, 2000, and will continue until the position is filled. *The University of Missouri is an Affirmative Action/Equal Opportunity/Americans With Disabilities Act Institution. Immigration status of non-U.S. citizens should be stated.*

PROGRAM OFFICER FOR GRADUATE STUDIES Organization for Tropical Studies (OTS)

This position will be based in Durham, North Carolina, and will work closely with the Academic Director and other OTS staff in the administration of the graduate education portfolio of OTS. This portfolio includes over 10 graduate courses in Costa Rica, Brazil, and Peru; an active research Fellowship program; and several new interdisciplinary initiatives. Duties include providing leadership in the support, recruitment, and outreach efforts of the OTS graduate education program and assisting the Academic Director in ongoing review of education goals and performance and tracking financial conformance. Position requires a minimum of a Master's degree in environmental science, resource management, environmental education, or related field; excellent verbal and written communication skills; and Spanish language capability. Salary and benefits are competitive; initial term of appointment is two years. To apply, send résumé or curriculum vitae with cover letter and names, addresses, and e-mail addresses of two references to: **Academic Director, Organization for Tropical Studies, Box 90630, Durham, NC 27708-0630.** Application deadline: June 23, 2000. *OTS/Duke University is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITIONS CANCER RESEARCH Nebraska

The Department of Oral Biology of the University of Nebraska Medical Center (UNMC) College of Dentistry is expanding its research focus in cancer biology. Three full-time (12-month) **TENURE-TRACK FACULTY POSITIONS** are available beginning July 1, 2000. Selected candidates will be expected to build strong, externally funded research programs in the molecular mechanisms of cancer. Competitive salaries, start-up packages, and modern research laboratories are included. A Ph.D. or equivalent and postdoctoral experience are required with academic rank commensurate with qualifications. Collaboration with researchers at the UNMC Eppley Institute for Research in Cancer is anticipated. Review of applicants will continue until the position(s) are filled. Send curriculum vitae; selected reprints; a statement of research plans; and the names, addresses, and telephone numbers of three references to: **Office of the Dean, Position #0-0050, UNMC College of Dentistry, 40th and Holdrege, Lincoln, NE 68583-0740.** *UNMC is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

TENURE-TRACK APPOINTMENT UNIVERSITY OF TORONTO DEPARTMENT OF CHEMISTRY

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

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

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

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

NEUROSCIENCE FACULTY

Clarke College, a growing Catholic coeducational liberal arts college in Dubuque, Iowa, seeks qualified candidates for a nine-month full-time tenure-track **ASSISTANT PROFESSOR** position in the Biology Department beginning fall 2000. Ph.D. required. Candidates should be specialists in neuroscience to teach courses for physical therapy and biology majors. Other teaching responsibilities may include human physiology, general biology, and supervision of undergraduate research projects. Opportunity exists to develop and teach upper-level courses in area of expertise. Screening of candidates continues until position is filled. Please send letter of introduction, undergraduate and graduate transcripts, curriculum vitae, statements of research interest and teaching philosophy, and three reference letters to: **Clarke College Human Resources Department, 1550 Clarke Drive, Dubuque, IA 52001-3198.** Visit Clarke at website: www.clarke.edu. *Clarke College is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION STRUCTURAL BIOLOGY

An NIH-funded Postdoctoral position is available immediately to work on computational aspects of high-resolution cryoelectron microscopy. Experience with image processing techniques is a plus. Biologists/biochemists with interest in cryoelectron microscopy and computational techniques are encouraged to apply. Candidates should send an application including names and e-mail addresses of two references to: **Dr. Pawel Penczek, Department of Biochemistry and Molecular Biology, University of Texas-Houston Medical School, 6431 Fannin, MSB 6.218, Houston, TX 77030.** E-mail: pawel@wadsforth.org. *The University of Texas is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

POSTHARVEST PHYSIOLOGIST. The Department of Horticulture, Oregon State University, seeks exceptional candidates to employ innovative investigation of fundamental problems in postharvest chemistry or biology relating to horticultural crops, particularly as these apply to the Pacific Northwest. A 12-month tenure-track position will be available October 1, 2000. The successful candidate will develop a strong program of basic research supported by extramural funding in an area of molecular biology, genomics, chemistry, horticulture, or other area of plant biology that underlies important postharvest problems in horticultural crops; participate actively in the teaching programs of the Department, both undergraduate and graduate, based on a course in postharvest physiology; and collaborate with professional colleagues and industry commodity commissions to identify and address relevant important postharvest problems in crops of the Pacific Northwest. Qualifications include a Ph.D. in biochemistry, chemistry, horticulture, molecular biology, plant physiology, or closely related field; excellent training and accomplishments at the postdoctoral level; and experience in postharvest research as part of this training. Applicants must submit a statement of interest, curriculum vitae, transcripts, and three letters of reference. For additional information, call or e-mail: **Dr. William Proebsting; Telephone: 541-737-5454; e-mail: proebstw@bcc.orst.edu.** The Department website is: www.orst.edu/dept/hort. Send all application materials to: **Viki Freeman, Department of Horticulture, OSU, 4017 ALS, Corvallis, OR 97331-7304.** For full consideration, all materials must be received by September 1, 2000; open until filled. *Oregon State University is an Affirmative Action/Equal Employment Opportunity Employer and has a policy of being responsive to dual-career needs.*

TWO TENURE-TRACK APPOINTMENTS UNIVERSITY OF TORONTO DEPARTMENT OF CHEMISTRY

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

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

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

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

TECHNICIAN II: Scientific technician with experience and/or desire in animal care. Duties will include breeding and maintenance of rodents and minor animal experiments. Skills in molecular or cell biology are also desirable. Require minimum of Bachelor of Science or higher. Send curriculum vitae and references to: **Dr. Raymond Yeung, Department of Surgery, University of Washington School of Medicine, Box 356410, Seattle, WA 98195.** *An Equal Opportunity Employer.*

**NATIONAL INSTITUTES OF HEALTH
National Institute of Allergy and
Infectious Diseases**

**Post-doctoral Fellow: Infectious
Diseases Research in Virology**

Position will be available in the Molecular Viral Biology Section of the Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases. The research activities involve (1) elucidation of the molecular events that occur during replication and transcription of the genome of mosquito-borne flaviviruses; (2) detailed definition of the processing of the viral polyprotein into individual functional viral proteins; (3) the use of new "rescue" systems for these viruses to examine basic questions of viral genetics, molecular virology, viral pathogenesis, and the molecular basis of attenuation; (4) production of interesting and informative viral mutants that might prove useful in immunization of humans; and (5) evaluation of the immunologic determinants of resistance to infection and illness caused by these flaviviruses. This full-time research position offers a unique opportunity to work on investigations that range from basic molecular virology to applied vaccinology, and provides excellent laboratory-based experiences for post-doctoral scientists within seven years of receiving the Ph.D. and for M.D.s at all levels of training who plan a career in research in infectious diseases. The project will be supervised by Drs. Robert Chanock and Ching-Juh Lai. Starting salary ranges from \$31,000 to \$122,400 commensurate with experience/present salary. Please send curriculum vitae and three references to: **Dr. Robert M. Chanock, Chief, Laboratory of Infectious Diseases, NIAID, Bldg. 7, Room 100, 7 Center Drive, MSC 0720, Bethesda, MD 20892. FAX: (301) 496-8312 E-mail: rchanock@niaid.nih.gov.**

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SYMPOSIA

**International Symposium on Heat Shock Proteins
in Biology and Medicine**

November 6-8, 2000, Woods Hole, MA

Conference Chairman: Stuart K. Calderwood, Ph.D.

Scientific Committee Chairman: Alexander Asea, Ph.D.

Speakers

- **Robin L. Anderson**, Peter MacCallum Cancer Institute, Melbourne, Australia
- **Olivier Bensaude**, INSERM, Paris, France
- **James R. Cassidy**, Lahey Clinic Medical Center, Burlington, USA
- **Daniel R. Cioeca**, Center Scientific Technological Research, Mendoza, Argentina
- **Mark W. Dewhirst**, Duke University Medical Center, Durham, USA
- **Wolfgang H. Dillmann**, University of California, San Diego, USA
- **Herman Eisen**, Massachusetts Institute of Technology, Cambridge, USA
- **Robert W. Finberg**, University of Massachusetts Medical Center, Worcester, USA
- **Karl H. Hecker**, Transgenomic Inc., San Jose, USA
- **Lawrence E. Hightower**, University of Connecticut, Storrs, USA
- **Jeffrey D. Hasday**, University of Maryland, Baltimore, USA
- **Jonathan King**, Massachusetts Institute of Technology, Cambridge, USA
- **Andrei Laszlo**, Washington University, St. Louis, USA
- **Peter Libby, M.D.**, Brigham and Women's Hospital, Harvard Medical School, Boston, USA
- **Gabriele Multhoff**, University Hospital, Regensburg, Germany
- **Jorma Paavonen**, University of Helsinki, Helsinki, Finland
- **Barbara Polla**, Laboratoire de Biologie, Physiologie de la Respiration, Paris, France
- **Elizabeth A. Repasky**, Roswell Park Cancer Institute, Buffalo, USA
- **Hansjorg Schild**, University of Tübingen Medical School, Tübingen, Germany
- **Marvin Siegel**, StressGen Biotechnologies, Victoria, Canada
- **Pramod K. Srivastava**, University of Connecticut School of Medicine, Farmington, USA
- **Kenneth Tanabi**, Massachusetts General Hospital, HMS, Boston, USA
- **Willem van Eden**, Utrecht University, Utrecht, Netherlands
- **Richard A. Voellmy**, University of Miami School of Medicine, Miami, USA
- **Georg Wick**, Austrian Academy of Science, Innsbruck, Austria
- **Steven S. Witkin**, Weill Medical College of Cornell University, New York, USA
- **Richard A. Young**, Whitehead Institute for Biomedical Research and MIT, USA

For registration information contact:

Dr. Alexander Asea, Dana-Farber Cancer Institute, Harvard Medical School, 44 Binney Street (D816), Boston, MA 02115, USA, alexander_asea@dfci.harvard.edu; Tel: (617) 632-4574; Fax: (617) 632-4599; <http://www.dfc.harvard.edu/hsp2000/>



**MAYO CLINIC
POSTDOCTORAL RESEARCH ASSOCIATE
GASTROINTESTINAL NEUROSCIENCE**

A postdoctoral research associate position in gastrointestinal neuroscience is immediately available for an outstanding scientist to work on the molecular basis underlying the role of G-protein coupled receptors in human gastrointestinal function and diseases. The applicant should have a strong background in protein chemistry and/or molecular biology and previous experience in receptor biology. The successful applicant will participate in a collaborative translational research effort among world-recognized clinical investigators and basic researchers. Research facilities include several state-of-the-art biochemistry, genetics, morphology, structural biology, and transgenic mouse cores.

Mayo Clinic offers very competitive salary and benefits packages. Send a curriculum vitae, a description of research experience, and three academic references to:

Raul Urrutia, MD/Michael Camilleri, MD

**Mayo Clinic
Alfred 2-435**

**200 First Street SW
Rochester, MN 55905**

E-mail: urrutia.raul@mayo.edu

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

ANNOUNCEMENTS

ANGIOGENESIS

RESOURCE CENTER

The Developmental Therapeutics Program (DTP, DCTD, NCI) has recently put into operation its Angiogenesis Resource Center. This effort was recommended by the Advisory Committee to the Director, NCI to facilitate research into the mechanisms of tumor angiogenesis and the development of drugs that target the essential tumor vasculature.

The Center currently serves qualified investigators in the scientific community by providing human umbilical endothelial cells (HUVEC) and the reference agent TNP470. Additionally, anti-angiogenesis testing is available without charge for pure natural products or synthetic compounds submitted by suppliers in universities, research institutes, government agencies, and pharmaceutical or biotechnology companies.

For additional information on receiving any of these supplies and services, please visit our website at <http://dtp.nci.nih.gov>

or contact the following individuals:

Mr. Richard F. Camalleri
Biological Testing Branch
DTP, DCTD, NCI
Fairview Center, Suite 205
1003 West 7th Street
Frederick, MD 21701-8527
Tel (301) 846-5607
Fax: (301) 846-6183
email camalleri@mail.nih.gov

Dr. Ravi K. Varma
Drug Synthesis and Chemistry Branch
DTP, DCTD, NCI
EPN Room 831
6130 Executive Blvd
Rockville, MD 20892
Tel (301) 435-9159
Fax: (301) 480-4817
email varmar@dtpepn.nci.nih.gov



- Developmental Therapeutics Program -

POSITIONS OPEN

FACULTY POSITION YALE UNIVERSITY Department of Molecular Biophysics and Biochemistry

The Department of Molecular Biophysics and Biochemistry seeks applicants for a position at the rank of **TENURED PROFESSOR** in the area of macromolecular crystallography. Our Department, which is located in both the Faculty of Arts and Sciences and the School of Medicine of the University, spans a broad range of areas including biochemistry, biophysical chemistry, structural biology, molecular biology, and molecular genetics. Applications should include curriculum vitae, a statement of research interests, three letters of reference, and reprints or preprints. Completed applications should be sent to:

Faculty Search Committee
Department of Molecular Biophysics
and Biochemistry
Yale University
260 Whitney Avenue, P.O. Box 208114
New Haven, CT 06520-8114
Telephone: 203-432-5593

Application deadline: August 1, 2000.

Yale University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR, Department of Neurosurgery, Baylor College of Medicine, seeks a candidate for a research position in the investigation of mechanisms of spinal cord injury and injury repair, with particular emphasis on neural-glial interactions in repair. Qualifications include a Ph.D. degree and postdoctoral experience in spinal regeneration studies including experience with microsurgery, tissue culture, and confocal microscopy. The successful candidate will be expected to establish and maintain an extramurally funded program in spinal regeneration research and to contribute to the educational programs of the Department. Submit curriculum vitae and a letter describing research interests and plan, mailing addresses, and telephone numbers of three references to: **Department of Neurosurgery, Baylor College of Medicine, Scurlock Tower, 6560 Fannin, Suite 944, Houston, TX 77030.** *Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.*

RESEARCH FELLOW SURFACE SCIENCES

Institute for Biological Detection System of Auburn University has an opening for Research Fellow to design and develop biosensors based on Langmuir-Blodgett and molecular self-assembly techniques. Candidates must have a Ph.D. in a field such as physical chemistry, applied physics, or chemical engineering. Two years of postdoctoral experience in a related field are desired. Applicants whose research is in surface sciences are especially encouraged. Send letter, résumé, and names and addresses of three references to: **Mr. Tommy Waldrop, Human Resources, Langdon Hall, Auburn University, Auburn, AL 36849.** *Auburn University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

PLANT GENETICIST. TENURE-TRACK POSITION available January 2001. Ph.D. with training in plant genetics required. Responsibilities include coordinating and teaching plant biology to nonmajors and genetics and development of research involving undergraduates and Master's-level graduate students. Research space and greenhouse available. Send letter of application; curriculum vitae; and names, addresses, and telephone numbers of three references to: **Dr. Marian Wilson-Cramer, Department of Biological Sciences, Chicago State University, 9501 South King Drive, Chicago, IL 60628-1598.** Deadline for receipt of applications is September 2000. *Chicago State University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

POSITIONS OPEN



The USDA, Agricultural Research Service, Plant Sciences Institute, Horticultural Crops Quality Laboratory, Beltsville, Maryland, is seeking a permanent full-time **RESEARCH FOOD TECHNOLOGIST/PLANT PHYSIOLOGIST**, GS-12/13. Salary is commensurate with experience (\$51,204 to \$79,155 per year) plus benefits. *Must be U.S. citizen.* Conducts food technology research to improve methods for maintaining microbial safety and quality of fresh-cut fruits and vegetables that are cut, sliced, or diced and then packaged for commercial and retail use without further preparation. Develops packaging technology and postharvest handling systems and implements strategies discovered from research on the interactions among human pathogens, plant pathogens, and their fruit and vegetable hosts to maintain microbial safety during preparation and marketing. Basic research includes elucidation of the regulatory mechanisms involved in plant senescence processes, including chlorophyll degradation, membrane changes, water loss, content of various volatile compounds, susceptibility to decay, and texture/flavor changes as these processes relate to quality and microbial safety. Appropriate qualifying education in food technology/plant physiology and/or professional research experience is required. For research program information, contact: **Dr. Ken Gross; Telephone: 301-504-6128; e-mail: kgross@asrr.arsusda.gov.** To address specific qualification requirements and application instructions, applicants **MUST** call **Telephone: 301-504-1484** to request announcement ARS-DOE-0224 or via Internet at **website: <http://www.ars.usda.gov/afm/hrd/resjobs.htm>**. Applications must be postmarked by July 31, 2000. *USDA/ARS is an Equal Opportunity Employer and Provider.*

FACULTY POSITION PHARMACOLOGY

The Department of Pharmacology at the University of Nebraska Medical Center invites applications for a tenure-track faculty position at the level of **ASSISTANT PROFESSOR or DOQ**. The Department, which currently consists of 12 full-time and 14 adjunct faculty, seeks individuals with research interests complementary to current Departmental research efforts on signal transduction in the areas of neuroscience, cancer biology, and cardiovascular biology using cellular, molecular, or genetic approaches. The position is supported by a competitive start-up package and a 12-month state-supported salary. Further information on the Department can be obtained at **website: <http://www.unmc.edu/Pharmacology/>**. Review of applications will begin August 1, 2000, and continue until the position is filled. Applicants should submit curriculum vitae, a summary of research accomplishments and future research plans, and names of three references to: **Chair, Search Committee, Department of Pharmacology, University of Nebraska Medical Center, Omaha, NE 68198-6260.** *The University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer. Women and minority researchers are particularly invited to apply.*

ASSISTANT PROFESSOR: food animal research veterinarian. University of Delaware Department of Animal and Food Sciences, University of Delaware. Twelve-month tenure-track faculty position. Applicants should hold a D.V.M. or equivalent and a Ph.D. with postdoctoral training. Expertise in reproductive physiology (ruminants) preferred. Applications to: **L. Griffiths, Search Committee Co-Chair, College of Agriculture and Natural Resources, 114 Townsend Hall, University of Delaware, Newark, DE 19717-1303. FAX: 302-831-6758; e-mail: lesa@udel.edu.** For more information, see **website: <http://www.udel.edu/udjobs/faculty.html>**.

The University of Delaware is an Equal Opportunity Employer that encourages applications from minority group members and women.

POSITIONS OPEN

ASSISTANT SCIENTIST III (MANAGER, CELL AND HYBRIDOMA FACILITY) Office of Biotechnology Iowa State University

The Cell and Hybridoma Facility manager has the following major duties: (1) manage, promote, plan, and implement future development; (2) supervise daily operations and personnel; (3) operate and maintain instruments; (4) advise users relative to sample preparation, experimental design, and data interpretation; and (5) prepare appropriate reports, grant proposals, and related documents. A strong educational component is emphasized and includes presentations of training workshops, seminars, and university courses. Required qualifications: Ph.D. in biological sciences; experience directly relevant to flow cytometry. Preferred qualifications: Experience with a multiuser environment. Management experience. Exposure to plant, animal, and bacterial samples. Application deadline: July 1, 2000. Send résumé and the names of three references to:

Dr. Stephen P. Ford
Office of Biotechnology
1210 Molecular Biology Building
Iowa State University
Ames, IA 50011-3260
Telephone: 515-294-4779
FAX: 515-294-4629
E-mail: tlpeters@iastate.edu

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

PHARMACOKINETIC MODELER

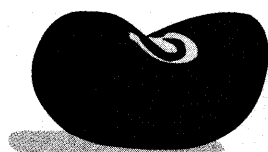
A challenging position combining laboratory research with physiologically based pharmacokinetic (PBPK) modeling is available in the Dayton, Ohio, area. Minimum requirements: Ph.D. in toxicology or related biomedical discipline plus two years of experience in PBPK modeling; expertise in kinetics and toxicology of xenobiotics; familiarity with personal computers and use of software that supports PBPK modeling; and excellent analytical, verbal, and written communication skills. *Applicant must be a U.S. citizen or have resident alien status.* Preferred candidates will have proven expertise and publication record in PBPK modeling and risk assessment, experience in development and application of PBPK models including laboratory experience in collecting data for model validation, and demonstrated project management skills. See job description on **website: www.mantech.com**. (See career opportunities; OH; project/research scientist: #4242-01.) Send résumé to: **HR/4242-01, ManTech Environmental Technology, Inc., P.O. Box 31009, Dayton, OH 45437.** *Equal Employment Opportunity; Minorities/Females/Disabled/Veterans urged to apply.*

BioArray Solutions, a rapidly growing biotech company in central New Jersey, develops bead microarray technology for genomics, proteomics, and cellular biology applications. We offer a competitive compensation package and equity position. Please send résumé to **e-mail: jobs@bioarrays.com** with subject of SciBio.

DIRECTOR OF GENOMICS AND PROTEOMICS: Ph.D. or M.D. with more than 10 years of research and development and management experience in genomics, proteomics, diagnostics, and cell-based assay development. Experience with microarray technology is preferred. You will direct overall assay development for the microarray application and coordinate research and development with business development.

RESEARCH SCIENTIST IN MOLECULAR BIOLOGY. Ph.D. in molecular biology/genetics with microarray experience and/or bioinformatic knowledge. You will be responsible for assay development targeting genotyping and gene expression profiling.

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e-mail: descobrir@mckinsey.com - site: www.mckinsey.com.br/Descobrir

DESCOBRIR

América do Norte

Workshop em Montreal - agosto de 2000

Europa

Workshop em Paris - outubro de 2000

FELLOWSHIPS

PEW
Latin American
FELLOWS
PROGRAM in the
BIOMEDICAL
S · C · I · E · N · C · E · S

The Pew Latin American Fellows Program in the Biomedical Sciences provides support for young scientists from Latin America for post-doctoral training in the United States.

Ten Fellows will be selected in 2001. An award of \$50,000 will be provided as a salary stipend for the fellow during the period of training (2 years) and will be administered by the sponsoring U.S. institution. The sponsoring institution is expected to supplement the stipend with at least \$5,000 a year and to provide medical benefits for the fellow. Following the two year fellowship, the Program will issue an additional \$35,000 award to the sponsoring institution to purchase equipment and supplies for the fellow to establish a laboratory in his or her home country.

Applicants must have held a Ph.D. and/or M.D. degree, or equivalent, for no more than five years as of July 1, 2001. Applicants may not have had previous post-doctoral training outside of Latin America nor may they already hold a post-doctoral position in the U.S. Applicants are not required to have a commitment of a position and laboratory space after the fellowship. However, applicants must submit a written statement of intent to return to Latin America. Fellows must accept a position and have confirmed laboratory space in Latin America by the end of the fellowship period in order to obtain the \$35,000 portion of the award.

Fellows will be selected on the basis of their promise as outstanding investigators, as well as the scientific merit of their research proposal, their record of training and how well their interests coincide with the laboratory of their sponsor in the United States. If potential applicants need assistance with the identification of an appropriate sponsoring laboratory in the United States, they may contact the Program Office before August 1, 2000. The program will accept applications from Mexico, Central and South America. Applications may be obtained from the Regional Committee contact listed here for each country or from our website at <http://futurehealth.ucsf.edu/pewlatin.html>

The application deadline is October 1, 2000. Winners will be notified in April 2001 and the fellowship should begin no later than August 2001.

APPLICATION DEADLINE IS OCTOBER 1, 2000

ARGENTINA

Ana Belen Elgoyhen, Chair
Instituto de Investigaciones en Ingenieria Genetica y Biologia Molecular
Phone: (5411)(4) 783-2871
Fax: (5411)(4) 786-8578
E-mail: elgoyhen@dna.uba.ar

BRASIL

Sergio T. Ferreira, Chair
Universidade Federal do Rio de Janeiro
Departamento de Bioquímica Médica, ICB/CCS
Phone: (021)270-5988 ext 161; Fax: (021)270-8647
E-mail: ferreira@bioqmed.ufrj.br

CHILE

Manuel Kukuljan, Chair
Programa de Fisiologia y Biofisica
Instituto de Ciencias Biomedicas
Facultad de Medicina
Universidad de Chile
Tel: (56)(2) 678-6310 Fax: (56)(2) 777-6916
email: kukuljan@bitmed.med.uchile.cl

MEXICO

Mario Zurita, Chair
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POSITIONS OPEN

VISITING BIOLOGISTS

St. Mary's College of Maryland, a public honors college for the liberal arts located an hour and a half southeast of Washington, D.C., invites applications for two one-year appointments at the **ASSISTANT PROFESSOR** level to begin August 2000. Teaching responsibilities include introductory courses for non-majors and participation in the lower-level biology core requirements and upper-level elective courses in biology. Preference will be given to biologists capable of teaching animal behavior or molecular evolution. Applicants should have or expect a Ph.D. before the starting date. Please submit a cover letter, résumé (including e-mail address), a statement of teaching philosophy, and arrange to have three letters of recommendation sent to: **Chair, Biology Search Committee, 18952 East Fisher Road, St. Mary's College of Maryland, St. Mary's City, MD 20686-3001.** Visit our website: <http://www.smc.edu/>. Review of applications will begin immediately and continue until the positions are filled. *St. Mary's College is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL ASSOCIATE. Position available immediately to participate in an NIH-funded study on the nature, role, and integration of protein phosphorylation-dephosphorylation events in the cyanobacterium *Synechocystis* PCC6803 using genomic, biochemical, and molecular genetic approaches. Experience in one or more of the following areas required: molecular biology, protein chemistry, enzymology, genetics. Competitive salary and benefits. To apply, send curriculum vitae and the names and telephone numbers of two references to: **Peter J. Kennelly, Department of Biochemistry, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061.** *Virginia Tech does not discriminate against employees, students, or applicants on the basis of race, color, sex, sexual orientation, disability, age, veteran status, national origin, religion, or political affiliation. Anyone having questions concerning discrimination should contact the Equal Opportunity and Affirmative Action Office.*

Two **POSTDOCTORAL POSITIONS** with **T. W. Sturgill** in cellular signaling available now for either the regulation and function of downstream MAP-KAP kinases by MAP kinases or the enzymology and function of Target of Rapamycin (TOR) kinase in cancer. Both mammalian and yeast systems in use; either background appropriate and especially welcomed would be protein biochemists. Send curriculum vitae and three references (e-mail and telephone numbers) to: **T. W. Sturgill, Box 800577, Health Sciences Center, Department of Pharmacology, University of Virginia, Charlottesville, VA 22908.** E-mail: tw57w@virginia.edu. *The University of Virginia is an Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS available immediately to study signal transduction pathways regulating proliferation and differentiation of blood progenitors in mouse and *Drosophila*. We use genetic and genomics approaches to (1) define blood cell lineages, (2) sort out potential cross-talk between parallel signaling pathways in these cells, and (3) study hemocyte requirement in *Drosophila* innate immunity. Contact: **Bernard Mathey-Prevot, Ph.D., Dana-Farber Cancer Institute, Division of Pediatric Oncology, 44 Binney Street, Boston, MA 02115.** E-mail: bernard_mathey-prevot@dfci.harvard.edu.

POSTDOCTORAL POSITIONS available immediately to study (1) biological functions of the tumor suppressor BRCA1 in preventing development of familial breast and ovarian cancers and (2) control of chromosomal DNA replication. Highly motivated individuals with experience in molecular biology and biochemistry are encouraged to apply. Send curriculum vitae and the names of three references to: **Rong Li, Ph.D., Department of Biochemistry and Molecular Genetics, Health Sciences Center, University of Virginia, Charlottesville, VA 22908.** E-mail: rl2t@virginia.edu.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR UNIVERSITY OF TENNESSEE, KNOXVILLE

The Department of Ecology and Evolutionary Biology will fill up to three positions to start no later than August 1, 2001. Positions are at the Assistant Professor or, in special circumstances, Associate Professor level. Postdoctoral experience or the equivalent is preferred.

Position I: Computational/theoretical ecology or evolution. Current research emphases include complex ecological and evolutionary systems, problems at large spatial extent, computational phylogenetics, and individual-based models. The successful candidate will participate in courses in mathematical ecology or mathematical evolution and enhance the current Departmental emphases in theoretical ecology and evolution.

Position II: Vertebrate evolution. The specific research field is open (e.g., molecular systematics, comparative analyses, phylogeography). Primary teaching responsibility is a one-semester upper-level course in comparative vertebrate anatomy.

Position III: Interdisciplinary ecology, evolution, or behavior. Research interests in conservation biology, ichthyology, and aquatic communities are particularly attractive, but other applicants are welcome. Applicants should have strong interdisciplinary skills and are encouraged to develop a research plan that includes using available regional natural resources. Teaching will include an undergraduate ecology course and a discipline-specific graduate course.

A description of the Department can be found at website: www.bio.utk.edu/cebwebsi.nsf/. Interested candidates should indicate the position(s) they are applying for and send curriculum vitae; representative reprints; a statement of research goals and teaching experience; and names, addresses, telephone numbers, and e-mail addresses of three references to: **Dr. Dan Simberloff, Nancy Gore Hunger Chair of Environmental Studies, Department of Ecology and Evolutionary Biology, University of Tennessee, Knoxville, TN 37996.** Review of applications will begin on September 15, 2000, and will continue until the positions are filled. *University of Tennessee Knoxville is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/Americans with Disabilities Act/Age Discrimination in Employment Act Institution in the provision of its education and employment programs and services.*

POSTDOCTORAL POSITION in microbial pathogenesis available to investigate heme acquisition systems used by *Haemophilus influenzae*. Emphasis will be placed on identification and characterization of *H. influenzae* outer membrane proteins, which interact directly with human heme carrier proteins and on *H. influenzae* gene products involved in the regulation of expression of these proteins. Experience with recombinant DNA techniques is required; this project makes extensive use of mutant analysis in conjunction with a relevant animal model. Position includes salary, fringe benefits, and the opportunity to work in a dynamic research environment. Position available after July 1, 2000. Send curriculum vitae and the names and telephone numbers of three references to: **Dr. Eric J. Hansen, Department of Microbiology, The University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75390-9048.** FAX: 214-648-5905. E-mail: hansen01@utsw.swmed.edu. *University of Texas Southwestern is an Equal Opportunity/Affirmative Action Employer.*

ENGINEER

Energetic **PROJECT ENGINEER** with medical device experience needed for emerging technology start-up company. Bachelor's degree in mechanical or electrical engineering required. Requires CAD experience, catheter design experience, project planning, physician contact, and creativity! MRI understanding and materials knowledge a plus. Send applications to: **Human Resources, Attention: Engineering, 9250 Rumsey Road, Suite 100, Columbia, MD 21045.**

POSITIONS OPEN

LABORATORY COORDINATOR: Prepare and maintain teaching laboratories for human anatomy, human physiology, and exercise physiology for university in Ohio. Responsibilities include designing and setting up classroom laboratories using state-of-the-art equipment and techniques. Schedule laboratory sessions and coordinate with department faculty to provide the laboratory component for scheduled classes. Order supplies and maintain laboratory budget. Maintain laboratory equipment and computers, performing regular maintenance and minor repairs as needed. Provide instruction in proper use of equipment and laboratory procedures (for example, calorimetry, microscopy, and isokinetic dynamometry) including revising and editing laboratory manuals. Provide in-class assistance to instructors and teaching assistants by operating equipment and handling biohazard materials and live animals. Maintain safety in the laboratory classroom. Required: Master's degree in physiology or exercise physiology or related field. No experience required. Academic courses must include human anatomy, human physiology, and exercise physiology with laboratory components and include force transduction, testing for neuromuscular development, cardiovascular (EKG) evaluation, and EMG analysis. Bachelor's degree and two years of experience in the same or related occupation is acceptable in lieu of Master's degree. 40 hours per week; 8 a.m. to 5 p.m.; Monday through Friday; \$34,077 per year. Send two résumés and cover letters (no calls) to: **ES Sp. Prgrms., Reference #5775D, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.**

POSTDOCTORAL FELLOWSHIP NATIONAL CANCER INSTITUTE NATIONAL INSTITUTES OF HEALTH

A Postdoctoral fellowship is available immediately to study proteins involved in V(D)J and class-switch recombination, DNA damage assessment, and signaling cell cycle checkpoints. Transgenic and gene-targeting methods are used to create overexpression, dominant negative, and loss-of-function mutants in mice (see *Nature* 404(6777):510-514, 2000).

Applicants should submit curriculum vitae, brief statement of research interests, and names of three references to:

Andre Nussenzweig, Ph.D.
Experimental Immunology Branch
Building 10, Room 4B17
Bethesda, MD 20892-1360
FAX: 301-496-0887
E-mail: andre_nussenzweig@nih.gov

NIH is an Equal Opportunity Employer.

POSTDOCTORAL/ASSOCIATE RESEARCH SCIENTIST POSITIONS MOLECULAR BASIS OF CANCER

Positions available to join research group cloning and characterizing novel genes mediating apoptosis, cancer progression and suppression, tumorigenesis, and cell differentiation. Training in molecular biology with emphasis on gene cloning; transgenic mice; and/or protein analysis, purification, or interaction studies required. Send curriculum vitae and three references to: **Dr. P. B. Fisher, Columbia University, College of Physicians and Surgeons, BB 15-1501, 630 West 168th Street, New York, NY 10032.** FAX: 212-305-8177; e-mail: pbfl@columbia.edu. *Columbia University takes Affirmative Action toward Equal Employment Opportunity.*

POSTDOCTORAL POSITION available immediately to study immunologic and molecular mechanisms of ischemic kidney injury. Candidates should be skilled in modern laboratory techniques and interested in applying these to disease-based research. Send curriculum vitae and the names of references to: **H. Rabb, M.D., Associate Professor of Medicine, University of Minnesota, Minneapolis Medical Research Foundation, 914 South Eighth Street, Minneapolis, MN 55404 U.S.A.** FAX: 612-347-2003; e-mail: rabbx003@tc.umn.edu.

**Assistant Professor
THE UNIVERSITY OF FLORIDA
Department of Neurological
Surgery**

The Department of Neurological Surgery, University of Florida, College of Medicine is seeking an Assistant Professor to carry out research in stereotactic and optical guided neurosurgery, and to participate in surgical procedures involving stereotactic and computer assisted neurosurgery. The anticipated start date is July 20, 2000.

Qualifications: Ph.D. in physics or engineering with background in medical physics. Experience in optical guidance, computer tomography, magnetic resonance and ultrasound imaging, working knowledge of UNIX and C.

Applicants should submit a cover letter, a curriculum vitae, and three letters of reference by June 30, 2000 to:

**Francis J. Bova, Ph.D.
Department of Neurological Surgery
P.O. Box 100265
University of Florida
Gainesville, FL 32610-0265
bova@neurosurgery.ufl.edu**

*Equal Opportunity/Affirmative Action
Employer.*

**THE CHINESE ACADEMY OF MEDICAL SCIENCES and
THE FU WAI HOSPITAL
In collaboration with the
MAX DELBRÜCK CENTER FOR MOLECULAR MEDICINE
(MDC) BERLIN-BUCH**

invite applications for the following position:

**Independent Group Leader Position
(5 years, Tenure track)**

In the field of Genetic Epidemiology and Genome Screening

We are seeking applications from outstanding individuals with research interests in the area of genetic epidemiology. Applicants should have a strong background in molecular biology, molecular and population genetics as well as in epidemiology and biostatistics. Expertise in the study of human disease is desirable.

Appropriate space, positions, and funds for a laboratory and its operation will be provided within the Sino-German-Laboratory at the Fu Wai Hospital, which is jointly supported by the Chinese Academy of Medical Sciences and the MAX DELBRÜCK CENTER FOR MOLECULAR MEDICINE (MDC) BERLIN-BUCH as well as Hoffmann-La Roche, Basel. Application for extramural funding from other sources is expected.

Applications (CV, list of publications and an outline of past research projects and future research plans) should be sent to:

**Hui Rutai, MD, PhD - Scientific Director
Cardiovascular Institute & Fu Wai Hospital
Chinese Academy of Medical Sciences
167 Bellishilu
Beijing 100037, China
Fax: 0086-10-68 33 1730 (e-mail: Huirutai@bj.col.com.cn)**

The deadline for applications is June 25, 2000.

The Fu Wai Hospital belongs to the Chinese Academy of Medical Sciences and is supported by grants from the Ministry of Science and Technology and the Ministry of Public Health of China.

The MDC is a member of the Hermann von Helmholtz-Association of National Research Centres supported by the Federal Government of Germany and by the city of Berlin.

For further information about the MDC please visit our web site: <http://www.mdc-berlin.de>.

MIT

MIT RESEARCH POSITIONS

**(1) Research Scientist, (2) Research Engineer,
and (3) Technical Assistant**

The Center for Space Research seeks enthusiastic candidates with expertise in cell culture to work in the Division of Health Sciences and Technology on the implementation of scientific requirements in the design and development of a Cell Culture System. The system is being designed to serve as a basis for ten years of biological research aboard the International Space Station. The specific project tasks include scientific design and testing of serial prototypes using a variety of microbial, plant and mammalian cells and tissues.

Requirements:

(1) a Ph.D. in cell biology, experience in bioreactor cultivation of cells and tissues, supervisory experience and ability for team work. Preference will be given to candidates with expertise in suspension cultures. **Job number 00-0497**

(2) a B.S. or M.S. degree in bio/engineering or biology, experience in cell culture and use of laboratory bioreactors, ability for team work. **Job number 00-0496**

(3) a B.S. degree in bio/engineering or biology, outstanding laboratory skills (cell culture, bioreactors, biochemical analytics), ability for team work. **Job number 00-0495**

Interested candidates should submit a resume and cover letter referencing the appropriate job number and containing the names and telephone numbers of three references to: James McCarthy, MIT Human Resources, P.O. Box 39129, Cambridge, MA 02139-0013. To apply on-line: web.mit.edu/personnel/www/resume.htm.



MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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web.mit.edu/personnel/www



Max Planck Institute for Demographic Research

For information about
research activities
and
open positions,
please see

<http://www.demogr.mpg.de>



POSITIONS OPEN

POSTDOCTORAL FELLOWS DEVELOPMENTAL AND CANCER BIOLOGY

Two NIH-funded positions are available immediately for individuals interested in studying hedgehog signaling in development and disease using skin as a model system. Our research program is based on two interrelated projects: One centers on understanding how deregulated hedgehog signaling gives rise to basal cell carcinomas (*Nature Genet.* 24:216–217, 2000); a second focuses on defining the function of this pathway during skin appendage development (*Dev. Biol.* 205:1–9, 1999). Applicants should have a solid background in molecular and cell biology, with experience in transgenic models desirable but not required. Send curriculum vitae, cover letter, and names of three references to: **Dr. Andrzej Dlugosz, University of Michigan, Dermatology Department and Comprehensive Cancer Center, 3310 CCGC-Box 0932, 1500 East Medical Center Drive, Ann Arbor, MI 48109-0932. E-mail: dlugosza@umich.edu.** *The University of Michigan is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL HUXLEY FELLOWSHIP BEHAVIORAL ECOLOGY/ EVOLUTIONARY BIOLOGY

The Department of Ecology and Evolutionary Biology at Rice University invites applications for a Huxley Research Fellowship/Instructorship. This is a two-year appointment for a recent Ph.D. for research (75%) and teaching (25%). Preference may be given to candidates who can work collaboratively with other evolutionary biologists in the Department. Please send curriculum vitae, research and teaching statements, and three reference letters to: **Dr. Joan Strassmann, Department of Ecology and Evolutionary Biology, MS 170, Rice University, P. O. Box 1892, Houston, TX 77251-1892 by 15 June 2000.** Position will remain open until it is filled. *Rice University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION IN MOLECULAR DIAGNOSTICS

Neo Gen Screening, a private laboratory specializing in detection of inborn metabolic diseases, has a two-year Postdoctoral position involving molecular diagnosis of congenital adrenal hyperplasia. Candidates with recent Ph.D. or M.D. and a strong background in molecular biology are desired. Send curriculum vitae and three references to: **Dr. Steven F. Dobrowolski, Director of Molecular Research, Neo Gen Screening, 110 Roessler Road, Pittsburgh, PA 15220. E-mail: sdobrowolski@neogenscreening.com.** *Neo Gen Screening is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION available at the University of Southern California Keck School of Medicine, Los Angeles, to study cell cycle control, signal transduction, and transcriptional regulation in osteoblasts in the context of normal differentiation, glucocorticoid treatment, and cancer. For further information, go to **website: www.usc.edu**, enter PIBBS at the search engine, and visit the **Frenkel Laboratory** Web page. E-mail applications/inquiries to **e-mail: frenkel@hsc.usc.edu.**

POSTDOCTORAL POSITION available immediately for recent Ph.D. in genetics or molecular biology. Selected candidate will apply oligonucleotide microarray technology to DNA polymorphism detection in pharmacogenetics. Familiarity with genomic databases is essential. Experience working with human DNA samples is desirable. Send curriculum vitae and names of three references to: **Dr. Greer Murphy, Psychiatry Neuroscience, MSLS P-104, Stanford University School of Medicine, Stanford, CA 94305-5485. E-mail: gmurphy@stanford.edu.**

POSITIONS OPEN

We are seeking individuals with a strong background in physics (electron transport, micro- and nanofabrication technology), chemical engineering (fluid dynamics, microfluidics), or molecular biology (microinjection, cell culture, cytometry) who have an interest in developing electronic biosensors on microfluidic chips. Individuals will work with faculty from Departments of Physics (**Prof. L. Sohn**), Chemical Engineering (**Prof. J. Carbeck**), and Molecular Biology (**Prof. D. Nottelman**) on this multidisciplinary project. Successful applicant must hold a Ph.D. in physics, applied physics, electrical or chemical engineering, or molecular biology and have demonstrated ability for independent research. Two positions are available immediately. Initial appointment is one year with renewal based on progress and mutual agreement. Send curriculum vitae, publication list, and three letters of reference to: **The Princeton Microfluidic Chip Project, c/o Prof. Lydia L. Sohn, Department of Physics, Jadwin Hall, Princeton University, Princeton, NJ 08544 U.S.A.**

Faculty position: The Department of Neurological Surgery, University of Washington, has an opening for a full-time Basic Scientist/faculty member at the **ASSISTANT** or **BEGINNING ASSOCIATE PROFESSOR** level. Applicants must have Ph.D. or comparable degree. Duties include research in the area of stem cell neurobiology; teaching of residents, postdoctorals, and graduate students; and developing an independent research program. Excellent opportunities exist for collaboration and interaction with other investigators pursuing a broad spectrum of neuroscience research issues. A three-year start-up package is to be negotiated with the Chairman; subsequent research support will be generated from research grants and contracts. Applicants should send curriculum vitae and names of at least three references by July 15, 2000, to: **P. A. Schwartzkroin, Chair, Search Committee, University of Washington, Department of Neurological Surgery, Box 356470, Seattle, WA 98195. E-mail: pas@u.washington.edu.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION available immediately to study polarized membrane trafficking and the SNARE membrane fusion machinery in epithelial cells. The focus will be on loss of cell polarity in diseases such as carcinomas and polycystic kidney disease. For more information, please see **website: http://www.lerner.ccf.org/~weimbst/**. A background in cell biology and molecular biology is preferred. Please send application to: **Thomas Weimbs, Ph.D., Department of Cell Biology, Lerner Research Institute/NC10, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195 U.S.A. FAX: 216-444-9404; e-mail: weimbst@ccf.org.**

POSTDOCTORAL RESEARCH ASSOCIATE POSITION AVAILABLE IMMEDIATELY

Doctoral degree (Ph.D. or M.D.) obtained within past five years in area of biochemistry or molecular biology as well as experience in expression, purification, and characterization of recombinant proteins required. Knowledge and experience in lung surfactant biology preferred. Please send résumé and names of three references to: **Avinash Chander Jerath, Ph.D., Department of Pediatrics, State University of New York at Stony Brook, Stony Brook, NY 11794-8111. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS are available to study signal transduction mechanisms underlying ion channel regulation in central neurons using combined electrophysiological and molecular biological approaches. Candidates with background in neuroscience and experience in electrophysiological recording are preferred. Send curriculum vitae and names of references to: **Dr. Zhen Yan, Department of Physiology and Biophysics, State University of New York, Buffalo, NY 14214-3005. E-mail: zyan@research.buffalo.edu.**

POSITIONS OPEN

TENURE-TRACK FACULTY POSITIONS THE DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOPHYSICS Washington University School of Medicine (Professor Carl Frieden, Wittcoff Professor and Head)

We are seeking to fill several tenure-track faculty positions at the **ASSISTANT PROFESSOR** level with individuals whose interests are in the areas of biochemistry or molecular biophysics. The successful candidates will develop independent research programs to address important biological problems. Candidates should have an enthusiasm for participating in a diverse scientific community and an interest in graduate student teaching. The anticipated start date for these positions is spring/summer 2001. Applicants should submit curriculum vitae, selected reprints, a short summary of future research plans, and the names of at least three references to:

**Kathleen B. Hall, Ph.D.
Chair, Faculty Search Committee
Washington University School of Medicine
Department of Biochemistry and
Molecular Biophysics
Box 8231, 660 South Euclid Avenue
St. Louis, MO 63110**

The Division of Nephrology at Mayo Clinic invites applications from an **ACADEMIC NEPHROLOGIST** to conduct laboratory-based research in the field of growth factors (IGF-I, HGF, and VEGF) and translational clinical research in renal disease. Applicants must have experience with clinical studies with the use of growth factors in renal failure. Responsibilities include teaching medical residents and students, supervision of Fellows in the laboratory, and development of extramurally funded research programs. Candidates must be Board-certified in internal medicine and Board-certified/eligible in nephrology with a scientific degree (Ph.D./Master's) and a strong commitment to academic medicine. A substantial research track record and established grant funding is required. Interested applicants should submit their curriculum vitae, a statement of research interests and long-term goals, and names of three references by August 30, 2000, to: **Vicente E. Torres, M.D., Chair, Division of Nephrology, Mayo Clinic, Rochester, MN 55905. Mayo Foundation is an Affirmative Action/Equal Opportunity Employer and Educator.**

COMPUTATIONAL BIOLOGIST

This position is for a scientist with a passion for protein structure prediction. The ideal candidate should have some formal training in computer science and molecular biology, including protein structure. A Ph.D. in one of these or a related subject is strongly desired, but exceptionally talented predoctoral candidates will be considered. The candidate must also be a disciplined and creative computer programmer, with extensive experience at solving cpu-intensive numerical problems in C++. Familiarity with Beowulf clusters, UNIX (especially Linux or FreeBSD), and Python is also helpful. Tecolote Research is a small computational biology start-up founded in 1996 in San Diego, California. Enjoy competitive salary and benefits in a beautiful city. For more information and to submit a résumé, contact: **John C. Wathey, Tecolote Research, 4341 Miami Court, San Diego, CA 92117. Telephone: 858-270-6867; e-mail: wathey@salk.edu.**



St. Jude Children's Research Hospital

ALBAC • Danny Thomas, Founder

POSTDOCTORAL RESEARCH ASSOCIATE

Postdoctoral position is available for NIH funded research for a recent Ph.D graduate to join our group in the study of insulin-like growth factor signaling on growth and survival of malignant cells (Cancer Res 59:886,1999; Mol. Pharmacol 54: 815, 1998; Science 277:99, 1997). Applicants should have a strong background in molecular pharmacology and molecular/cell biology techniques. Send curriculum vitae with names of 3 references to: **Dr. Peter Houghton, Dept. of Molecular Pharmacology, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105-2794. E-mail: peter.houghton@stjude.org**

Equal Opportunity/Affirmative Action Employer

EUROPEAN OPPORTUNITIES

Hoechst Marion Roussel

For our international research center near Paris, we are currently seeking an experienced

HEAD OF INFORMATION SYSTEMS For pharmaceutical R & D

To succeed in this role you must be able to :

- Manage an information system group of 30 people plus 15 contractors
- Develop and deploy applications for R&D and introduce associated business process changes
- Coordinate information technology (IT) activities across R&D departments through a steering committee process
- Be, and be seen as, a leader in implementing IT to improve the performance of R&D
- Acts as champion for the evaluation and introduction of new and emerging information technologies
- Develop programs and annual and long range plans needed to achieve stated objectives
- Work independently to resolve major issues, problems, and needs
- Organize and manage large, cross-departmental project teams to develop and deploy complex applications
- Represent IT needs throughout R&D. Resolve conflicts and leverage synergistic opportunities
- Manage a 130 million FF budget.

Requirements

- 10+ years in leadership position for scientific computing for Pharmaceutical research
 - Demonstrated track record for the introduction of scientific computing applications
 - Broad understanding of the R&D processes
 - Broad understanding of information technology and its application to R&D
 - Excellent knowledge and expertise in scientific computing for R&D
 - Recognized in the pharmaceutical industry as a leader
 - Active in industry associations
 - Excellent people skills including facilitation
 - PhD in biological/physical sciences
- Advanced education or demonstrated expertise in information technology.

If you are interested, please forward your resume to:

HOECHST MARION ROUSSEL

Marie-Christine LACHAIZE

102 Route de Noisy

93235 ROMAINVILLE CEDEX - FRANCE.

Hoechst

Hoechst Marion Roussel
The Pharmaceutical Company of Hoechst

GLOBAL OPPORTUNITIES



SANTA FE INSTITUTE International Research Fellowship Opportunities October 1, 2000

The Santa Fe Institute (SFI) will award six two-year fellowships to outstanding junior and senior scholars from academic institutions in the countries of **China, India, and Russia**. Participants will be selected based on interest in interdisciplinary research in the physical, biological, computational, or social sciences as they relate to complex adaptive systems. Short-term visits to SFI are included in the Fellowship.

Additional information:

<http://www.santafe.edu/sfi/education/indexInternational.html>

Application information: Cover letter including statement of purpose, current curriculum vitae (CV), and two letters of recommendation from scientists who know your work. Include your email address and fax number.

International Fellowship Program
Santa Fe Institute
1399 Hyde Park Road
Santa Fe, New Mexico 87501 USA
(505) 984-8800 ext. 235 (voice)
(505) 982-0565 (fax)
email: cate@santafe.edu

Application deadline: June 30, 2000

EUROPEAN OPPORTUNITIES



ALBERT-LUDWIGS-UNIVERSITÄT FREIBURG

An der Medizinischen Fakultät der Albert-Ludwigs-Universität Freiburg/Br. ist zum 01.04.2001 eine

C 4-Professur für Humangenetik (Nachfolge Prof. Dr. U. Wolf)

zu besetzen.

Die Stelleninhaberin/ der Stelleninhaber vertritt das Fach Humangenetik in Forschung und Lehre. Mit der Professur ist die Leitung des Instituts für Humangenetik und Anthropologie verbunden. Gesucht wird eine führende Forscherpersönlichkeit, die auf einem aktuellen Gebiet der Humangenetik ausgewiesen ist. Die Medizinische Fakultät der Albert-Ludwigs-Universität bietet ein dynamisches, forschungsaktives Umfeld. Derzeit existieren folgende Forschungsschwerpunkte: Zelluläre Funktionen dynamischer Proteinwechselwirkungen (SFB 388), Neuronale Differenzierung und Neurotransmission (SFB 505), Molekulare und zelluläre Grundlagen der Tumorthherapie (SFB 364), Gendefekt und Genfunktion (SFB-Initiative 1850), Signalmechanismen in Embryogenese und Organogenese (SFB-Initiative 1877), Immundefizienz und Immundysregulation (SFB-Initiative 1917). Eine intensive Kooperation mit dem Max-Planck-Institut für Immunbiologie, Freiburg ist möglich. Die erfolgreiche Bewerberin/ der erfolgreiche Bewerber beteiligt sich in der Lehre neben der Ausbildung von Medizinstudenten am Aufbau neuer Lehrangebote (z.B. Aufbaustudiengang Bioinformatik). Am Institut ist eine humangenetische Beratungsstelle angesiedelt, die von einem Facharzt für Humangenetik verantwortlich geleitet wird.

Die Universität Freiburg strebt eine Erhöhung des Anteils von Frauen in Forschung und Lehre an und fordert daher entsprechend qualifizierte Wissenschaftlerinnen ausdrücklich auf, sich zu bewerben. Bei der ersten Berufung in ein Professorenamt wird das Dienstverhältnis zunächst grundsätzlich befristet. Ausnahmen sind möglich bei Bewerbungen aus dem Ausland oder aus Bereichen außerhalb der Hochschulen. Bewerberinnen und Bewerber sollten einen Bewerbungsbogen im Dekanat der Medizinischen Fakultät anfordern und die Bewerbungsunterlagen bis zum 30. Juni 2000 richten an den Dekan der Medizinischen Fakultät der Albert-Ludwigs-Universität Freiburg/Br., 79085 Freiburg/Br. Den Bewerbungsbogen erhalten sie unter Tel: ++49-761-270-7235, Fax: ++49-761-270-7236; e-mail: hoch@gl.uni-freiburg.de.

POSITIONS OPEN

POSTDOCTORAL POSITIONS IN CANCER BIOLOGY

Two Postdoctoral positions are available to investigate signal transduction mediated by transforming growth factor- β (TGF- β), TGF- β -induced inhibition of cell proliferation, and mechanisms of resistance to TGF- β -induced antiproliferation in cancer cells in a dynamic and highly stimulating research environment. Candidates should have a Ph.D. or equivalent degree and experience with recombinant DNA techniques. Positions are available after August 1, 2000. Highly motivated candidates are encouraged to send curriculum vitae and the names, telephone numbers, and e-mail addresses of three references to: **Xianxin Hua, M.D., Ph.D., Abramson Cancer Research Institute, Department of Cancer Biology, University of Pennsylvania School of Medicine, 415 BRBII/III, 421 Curie Boulevard, Philadelphia, PA 19104-6160. E-mail: hua@wi.mit.edu or to: Ms. Cindie Marinelli; Telephone: 215-746-5524; FAX: 215-746-5525; e-mail: cynthiam@mail.med.upenn.edu. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.**

RESEARCH SCIENTIST for neurotology research laboratory. Under supervision from laboratory director, the researcher will design experiments and implement research protocols; screen and select subjects to be tested; collect and analyze data; prepare scientific articles, grant proposals, and reports. The scientist will train research technician to perform some experimental tests and to analyze parts of the collected data and, in collaboration with physicist, will maintain and update equipment including a postural control sway platform, a centrifuge, two rotational chairs, and an ocular video recording system. Rate of pay: \$23.13 per hour. Requirements: Ph.D. with major study in vestibular physiology and signal processing. Four years of professional experience in a research environment as a biomedical engineer. Must have published at least three peer-reviewed articles reporting experiments performed in patients with vestibular disorders. Must have written a minimum of 5,000 lines of signal processing routines in Matlab. Experience required may have been accrued concurrently. This position is to be filled in Portland, Oregon. Résumé/cover letter must address each and every requirement or the application will be rejected. Applicants must have legal authority to permanently work in the United States. Send résumé to: **Employment Department, Attention Job Order Number 5552021, 875 Union Street N.E., Room 201, Salem, OR 97311.**

NIH-funded **POSTDOCTORAL POSITION** available in molecular oncology to study function and regulation of tumor suppressor genes *TSC1* and *2*. Candidates should have strong background in molecular and cellular biology and/or biochemistry. Applicants should have a Ph.D. and not more than three years of postdoctoral experience. Send curriculum vitae and references to: **Dr. Raymond Yeung, Department of Surgery, University of Washington School of Medicine, Box 356410, Seattle, WA 98195. An Equal Opportunity Employer.**

RESEARCH ASSOCIATE position is available immediately at the Molecular and Cellular Cardiology Division. Candidates should have skills and experience in patch clamp techniques applied to cardiomyocytes. Knowledge of PKC signaling is desired. Salary commensurate with experience. Please send curriculum vitae and three references to: **Dr. M. Boutjdir, Research and Development Office (151), VA Medical Center, Brooklyn, NY 11209. FAX: 718-630-3796; e-mail: boutjdir@sprynet.com.**

POSITIONS OPEN

FACULTY POSITION in molecular arbovirology. Title/salary dependent on qualifications. Ph.D. degree (or equivalent clinical degree with outstanding postdoctoral experience) in virology. Postdoctoral training relevant to the molecular biology/genetics of arthropod-borne viruses. Documented research record or potential to develop basic research program in molecular arbovirology desirable but candidates with experience investigating nonarboviruses and interest in developing research program focused on arthropod-borne viruses encouraged to apply. Ability to secure and maintain extramural research support critical. Desire to contribute to multidisciplinary team while maintaining independent research program. Excellent interpersonal and communication skills. Demonstrated aptitude in teaching preferred.

As part of the University of California Davis Arbovirus Research Unit in the Center for Vector-Borne Disease Research (CVEC), supervise BL-3 containment facility; direct research projects of graduate students and Postdoctoral Fellows; design/maintain program and author research papers focused on molecular biology/genetics of arboviruses; and obtain extramural funds to support the research. Collaborate with investigators on studies of virus biology, prevention of viral diseases, and molecular epidemiology. Depending on qualifications, may include teaching responsibilities.

Applications accepted through August 1, 2000, or until filled. Submit (1) letter of intent outlining interest in position, overall qualifications and experience, and career goals; (2) curriculum vitae; and (3) names and addresses of three professional references to: **John D. Edman, Director, Center for Vector-Borne Disease Research, School of Veterinary Medicine, University of California, Davis, CA 95616. Affirmative Action/Equal Opportunity Employer.**

RESEARCH SCIENTIST

The Laboratory for Structural Biology at The University of Alabama in Huntsville invites applications for a Research Scientist with skills in protein expression and purification. The position will include appointment as a **RESEARCH ASSISTANT PROFESSOR** in the Chemistry Department. This NASA-funded position will support crystallography studies of bone and cartilage-related proteins. The successful candidate will have expertise in expression vector construction, recombinant gene expression, and protein purification. Experience in protein crystallization would be a plus. Applicants should have a Ph.D. and postdoctoral experience.

Applicants should submit curriculum vitae and the names of three references to: **Dr. Edward Meehan, Director, Laboratory for Structural Biology, MS Building 235, The University of Alabama in Huntsville, Huntsville, AL 35899. The position is available immediately.**

An Equal Opportunity/Affirmative Action Employer. Applications from women and minority candidates are encouraged.

SENIOR POSTDOCTORAL or RESEARCH SCIENTIST with a strong background in chemical biology. The successful candidate will head up a team of students/Postdoctorates carrying out research on peptides, lipids, and derivatives as lead compounds in drug discovery applied to cardiovascular disease. (*PNAS* 95:1568, 1998; *Circ. Res.* 84:1, 1999; *J. Physiol.* 524:807, 2000). Experience with standard techniques of organic synthesis/spectroscopic analysis of amino acids, peptides, lipids, or phorbol esters and good communication/organization skills are required. The University of Wisconsin offers a stimulating research atmosphere in chemical biology including a state-of-the-art biotechnology center with MALDI/electrospray mass spectrometry, combinatorial chemistry, and peptide synthesis capabilities. Salary: \$35,000 to \$50,000 depending upon qualifications. Please send curriculum vitae and names, addresses, and telephone numbers of three references to: **Dr. Jeffery W. Walker, Department of Physiology, 1300 University Avenue, Madison, WI 53706. E-mail: jwalker@physiology.wisc.edu.**

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP

Nuclear Architecture and Gene Regulation

A Postdoctoral Fellowship is available to study the role of nuclear architecture in cell differentiation and disease. Gene targeting procedures are being used to manipulate the expression of key components of the mammalian nuclear envelope to determine their requirement in regulating gene expression (see **Sullivan et al., J. Cell Biol.** 147:913, 1999), nuclear integrity, cell proliferation, and their contribution to congenital diseases. Applicants should have experience in techniques of molecular biology and/or cell biology.

The Cancer and Developmental Biology Laboratory is fully equipped to pursue research on the genetic manipulation of mouse embryogenesis, cell function, and gene expression. More information about the CDBL and its research programs may be found at its website: <http://web.ncicrf.gov/research.cdbi>.

These positions are part of the Division of Basic Sciences of the National Cancer Institute and are located at the Frederick Cancer Research and Development Center in Frederick, Maryland. Salary range for these positions is \$31,500 to \$38,020.

If interested, please send a cover letter, your curriculum vitae, and three letters of recommendation to: **Colin L. Stewart, Ph.D., Chief, Cancer and Developmental Biology Laboratory, National Cancer Institute, Frederick Cancer Research and Development Center, P.O. Box B, Building 539, Room 121, Frederick, MD 21702. E-mail: stewartc@mail.ncicrf.gov. The National Institutes of Health is an Equal Opportunity Employer and encourages all qualified women and minorities to apply. Selection for this position will be based solely on merit, with no discrimination for nonmerit reasons such as race, marital status, physical or mental disability, age, sexual orientation, or membership or nonmembership in an employee organization.**

POSTDOCTORAL POSITIONS FUNCTIONAL GENOMICS OF HYPERTENSION

Postdoctoral positions are available in the Center on Functional Genomics of Hypertension using transgenic, knockout, recombinase, gene transfer, and microarray systems to examine the genetics of hypertension. Postdoctorals can expect to apply many aspects of molecular genetics, molecular biology, and whole animal physiology in their projects. A Ph.D. in genetics, molecular biology, physiology, or related discipline is required. Send curriculum vitae and names of three references to:

**Curt D. Sigmund, Ph.D., Director
Center on Functional Genomics of Hypertension
2191 ML, University of Iowa
Iowa City, IA 52242
E-mail: curt-sigmund@uiowa.edu**

POSTDOCTORAL POSITIONS BIOSYNTHETIC CHEMISTRY

Memorial Sloan-Kettering Cancer Center

Candidates are sought for three Postdoctoral positions in the laboratory of biosynthetic chemistry to assist in our studies to understand and exploit enediyne biosynthesis and prokaryotic glycosyltransferases. Individuals with experience in expressing and purifying glycosyltransferases, mechanistic enzymology, and/or the genetic manipulation of actinomycetes are particularly encouraged to apply. Candidates should send curriculum vitae and three letters of recommendation to: **Dr. Jon S. Thorson, Laboratory of Biosynthetic Chemistry, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, Box 309, New York, NY 10021. Applications must be received by June 20, 2000.**

Postdoctoral positions, Respiratory Research AstraZeneca R&D Lund, Sweden

AstraZeneca is one of the world's leading pharmaceutical companies, with approximately 50,000 employees. Operations are based on innovative R&D of pharmaceuticals in a number of therapeutic areas. AstraZeneca has a global discovery organisation largely focused in Sweden, the US and the UK with significant investments in state of the art technologies. For further information, see: www.astrazeneca.com.

AstraZeneca R&D Lund is the world-wide center for respiratory drug development and has approx. 1,000 employees.

We are looking for dynamic, self motivated scientists to work within a leading respiratory research environment. Applicants must have the ability to lead their own research and work effectively with scientists from various disciplines.

Respiratory Research on COPD Pathology Ref.no. 92/00

A postdoctoral position is available to analyse the molecular and pathological basis of Chronic Obstructive Pulmonary Disease (COPD). Experience with molecular and/or histological analysis techniques is required, and experience with small animal models or tissue culture techniques would be helpful. Contact: Charles Sentman, phone: +46 46 33 76 48, e-mail: charles.sentman@astrazeneca.com

Analysis of Elastolytic Protease Activity in Complex Biological Samples Ref.no. 93/00

We are seeking a biochemist/enzymologist with a background in protease biology. You will be working on the purification and functional analysis of proteolytic enzymes in human cells/tissues in health and disease. With the objective to discover and validate novel proteases as candidate drug targets, primarily for the treatment of asthma and COPD. Experience in working with enzymes in biological samples and cell culture experience is an advantage. Contact: Zsafia Berke, phone: +46 46 33 74 44, e-mail: zsafia.berke@astrazeneca.com

Synthetic Organic/ Combinatorial Chemist Ref.no. 97/00

This position involves development and application of combinatorial chemistry for synthesis of novel directed libraries related to emerging targets. You will interact closely with medicinal, computational and combinatorial chemists. Qualified candidates should have a Ph.D. in organic or medicinal chemistry with extensive experience in synthetic organic chemistry. Contact: Thomas Hansson, phone: +46 46 33 70 62, e-mail: thomas.hansson@astrazeneca.com

Epithelial Cell Activation and Differentiation Ref.no. 103/00

A position is available to study the importance of respiratory epithelial cell activation/differentiation in the pathophysiology of Chronic Obstructive Lung Disease. You will have access to the latest molecular (incl. micro arrays) and histological techniques. Experience with in vitro cell cultures with respiratory epithelial cells, is required as well as knowledge about molecular biology techniques and preferably histological analysis. Contact: Elisabet Wieslander, phone +46 46 33 60 00, e-mail: elisabet.wieslander@astrazeneca.com

Inhalation Positions

Nasal and pulmonary administration routes are currently being used for topical delivery of drugs used to treat respiratory diseases. We seek candidates to work on characterisation of the dynamic pulmonary barrier from a pharmacokinetic/ bio-science point of view.

In vitro models Ref.no. 94/00

Emphasis on cell biology and molecular biology. Establishment of respiratory barrier models (eg epithelial cell monolayers). Applied research on the relation between the biological barrier and physico-chemical properties of drugs and drug transporters important for inhalation therapy. Contact: Ursula Hultkvist Bengtsson, phone: +46 46 33 62 36, e-mail: ursula.hultkvistbengtsson@astrazeneca.com

In vivo/ex vivo models Ref.no. 95/00

Emphasis on animal physiology/pathophysiology. Perfused organ models, in vivo inhalation models and disease models are used. Applied research on pulmonary drug transport and metabolism for design of new inhalation therapies. Contact: Ursula Hultkvist Bengtsson, phone: +46 46 33 62 36, e-mail: ursula.hultkvistbengtsson@astrazeneca.com

Bioanalytical specialist Ref.no. 96/00

Emphasis on LC-MS/MS applications for the subnanomolar quantitation in biological matrices, including blood and tissue. Experience in capillary electrophoresis in connection with MS is a merit. Contact: Ursula Hultkvist Bengtsson, phone: +46 46 33 62 36, e-mail: ursula.hultkvistbengtsson@astrazeneca.com



Please send a complete curriculum vitae, list of publication, and the names of three references to Nina Åsvatne, Human Resources, AstraZeneca R&D Lund, SE-221 87 Lund, Sweden, no later than June 26.

POSITIONS OPEN

YALE UNIVERSITY SCHOOL OF FORESTRY AND ENVIRONMENTAL STUDIES

The School seeks to fill a **FACULTY POSITION** with an outstanding scholar and leader in the field of energy, particularly as regards the relationship of energy and the environment. The individual should have a distinguished record of research and be recognized internationally both for leadership and scholarship within the energy-environment community. The specific discipline is less important than is the cutting-edge engagement of the individual with science and policy issues affecting the future of energy supply, provisioning, and consumption; the interplay between science and society in energy policy and management; and/or the search for approaches in the United States and abroad for energy alternatives that meet economic needs while also meeting environmental objectives, including work related to local and regional air pollution and to climate change. The individual will be expected to pursue original scholarship relating to his/her area of expertise. Involvement with interdisciplinary research teams both within and outside the School to examine important energy-related issues is also anticipated. Teaching is expected to include graduate-level courses covering energy and the environment and more advanced topics relevant to the individual's background. An interest in undergraduate instruction at Yale College would be welcomed.

Applicants should send their curriculum vitae, a statement of their scholarly research and teaching interests, a list of three references, and representative examples of their publications by August 15, 2000, to: **Energy and Environment Position, Dr. Thomas E. Graedel, Search Committee Chair, Yale University, School of Forestry and Environmental Studies, 205 Prospect Street, New Haven, CT 06511 U.S.A.** Additional information on this position may be obtained by contacting: **Dr. Thomas E. Graedel; Telephone: 203-432-9733; FAX: 203-432-5556; e-mail: thomas.graedel@yale.edu.**

Yale University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are especially encouraged to apply.

POSTDOCTORAL RESEARCH FELLOW position available immediately until filled with the Interdisciplinary Faculty of Toxicology at Texas A&M University. There is potential to train in multiple laboratories associated with the Superfund Basic Research Project and the Center for Environmental and Rural Health in the areas of molecular, reproductive and developmental, and environmental toxicology. Send curriculum vitae and names and addresses of three references to: **Stephen H. Safe, Ph.D., Interdisciplinary Faculty of Toxicology, 4461 TAMUS, College Station, TX 77843-4461. E-mail: ssafe@cvm.tamu.edu.** Texas A&M University is an Equal Opportunity Employer. This position is restricted to permanent residents or citizens of the United States.

POSTDOCTORAL POSITION Indiana University Medical Center IUPUI, Indianapolis

Candidates with outstanding potential and desire to continue a career in cellular electrophysiology are invited to apply for a Postdoctoral position available on July 1, 2000. Applicants are expected to participate in research projects focused on the physiological regulation of intercellular communication through gap junctions. Experience in whole cell voltage clamping is desired. Send curriculum vitae and three references to: **Dr. Alonso P. Moreno; e-mail: amoreno@iupui.edu.** An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study functional significance of the early N-glycosylation genes in development and differentiation. Knowledge of molecular biology and mouse transgenics required. Additional expertise in cell signaling is preferred. Submit curriculum vitae and names of three references to: **Maria Kukuruzinska, Ph.D., Associate Professor, Department of Molecular and Cell Biology, Boston University School of Dental Medicine and School of Medicine, Boston, MA 02118. E-mail: mkukuruz@bu.edu; Telephone: 617-638-4859; FAX: 617-414-1041.**

POSITIONS OPEN

MOLECULAR BIOLOGIST

The USB Corporation is a world leader in the development of enzymes, reagents, and kits for the analysis of RNA and DNA. We have openings for two creative individuals with extensive experience in molecular biology. One individual will join our research and development program; extensive experience in RNA or DNA analysis is a must, with experience in cDNA synthesis and cloning desirable. Qualified scientists must have a Ph.D. and several years of relevant postdoctoral research experience. The other individual will join our enzyme manufacture group; experience in protein purification or enzyme assay development is desirable. Qualified individuals must have a four-year college degree and several years of relevant laboratory experience. Both individuals must have good computer skills and good English writing and verbal communication skills. Salary and benefits are highly competitive, and we offer an excellent opportunity for growth. Applications must be received by the end of June 2000. To apply, submit the names and telephone numbers of three references along with curriculum vitae to: **Human Resources, USB Corporation, 26111 Miles Road, Cleveland, OH 44128. E-mail: lmaisel@usbweb.com.**

Mayo Clinic POSTDOCTORAL FELLOWSHIP POSITION(S) in biochemistry and molecular biology. A Postdoctoral position(s) is available immediately in the Department of Biochemistry and Molecular Biology to investigate the action of transforming growth factor beta (TGF- β). Research topics include (1) the identification and characterization of endocytic motifs in the TGF- β receptor complex, (2) defining the relationship between receptor trafficking and TGF- β signaling, and (3) determining the role of rab proteins and AP family members in TGF- β receptor action. See *J. Biol. Chem.* 275:13149-13154, 2000; *J. Biol. Chem.* 273:31770-31777, 1998; *J. Biol. Chem.* 273:23118-23125, 1998; *Mol. Biol. Cell* 8:2133-2143, 1997 for recent related studies.

A Ph.D. (or M.D./Ph.D.) is required, and experience in cell and/or molecular biology is preferable. Please forward your curriculum vitae, statement of research interests, and three letters of recommendation to: **Edward B. Leof, Ph.D., Department of Biochemistry and Molecular Biology, Mayo Clinic, Guggenheim 642-C, 200 First Street S.W., Rochester, MN 55905. E-mail: leof.edward@mayo.edu.** Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.

POSTDOCTORAL POSITION in microbial genomics available June 1, 2000. The candidate will have significant responsibility for sequencing and annotating the genome of a microbial pathogen. The candidates should be experienced in informatics (including PHRED and PHRAP), genomics, and molecular biology. The salary will be commensurate with experience, with appointment for two to three years. Send curriculum vitae and three references to: **Dr. Floyd Dewhirst, Department of Molecular Genetics, The Forsyth Institute, 140 The Fenway, Boston, MA 02115. E-mail: fdewhirst@forsyth.org.** Affirmative Action/Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.

RESEARCH ASSOCIATE/POSTDOCTORAL POSITION available to study the molecular mechanism of phytoestrogen actions. Candidate must have a Ph.D. in biochemistry, molecular biology, or allied field. Experiences in standard molecular biology and biochemistry techniques are essential. Please send curriculum vitae and three letters of recommendation to: **Dr. Wesley G. Gray, Department of Chemistry and Environmental Toxicological Program, Southern University, P.O. Box 9716, Baton Rouge, LA 70813-2566. E-mail: DRIWGGRAY@AOL.COM.** Southern University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP: The Epigenetic Regulation of Imprinted Gene Expression and Its Role in Mammalian Development and Cancer

A Postdoctoral Fellowship is available to study the regulation of imprinted gene expression and epigenetic modifications leading to transcriptional silencing. Candidates should have experience either in chromatin structure, transcriptional regulation, or epigenetics.

The Cancer and Developmental Biology Laboratory is fully equipped to pursue research on the genetic manipulation of mouse embryogenesis, cell function, and gene expression. More information about the CDBL and its research programs may be found at its website: <http://web.ncicrf.gov/research.cdbbl>.

These positions are part of the Division of Basic Sciences of the National Cancer Institute and are located at the Frederick Cancer Research and Development Center in Frederick, Maryland. Salary range for these positions is \$31,500 to \$38,020.

If interested, please send a cover letter, your curriculum vitae, and three letters of recommendation to: **Colin L. Stewart, Ph.D., Chief, Cancer and Developmental Biology Laboratory, National Cancer Institute, Frederick Cancer Research and Development Center, P.O. Box B, Building 539, Room 121, Frederick, MD 21702. E-mail: stewartc@mail.ncicrf.gov.** The National Institutes of Health is an Equal Opportunity Employer and encourages all qualified women and minorities to apply. Selection for this position will be based solely on merit, with no discrimination for nonmerit reasons such as race, marital status, physical or mental disability, age, sexual orientation, or membership or nonmembership in an employee organization.

Two NIH-funded **POSTDOCTORAL POSITIONS:** molecular biology/biophysics at The University of Texas Medical School, Galveston, Texas, to study transcriptional regulation of potassium ion channels and neurotransmitter receptors in basolateral membranes of sensory hair cells of the ear. Qualifications: Ph.D. or M.D., solid background in molecular biology, patch clamp techniques preferred but can be acquired. Excellent written and verbal communications skills (in English) are required. Reply to: **Manning Correia, Ph.D., University of Texas Medical Branch, 301 University Boulevard, MRB 7.102, Galveston, TX 77555-1063. E-mail: correia@enterprise.utmb.edu.** UTMB is an Equal Opportunity/Affirmative Action Employer; Minorities/Females/Disabled/Veterans. UTMB hires only individuals authorized to work in the United States.

A **POSTDOCTORAL POSITION** in eukaryotic protein biosynthesis is open in the laboratory of: **Dr. William Merrick, Department of Biochemistry, Case Western Reserve University, Cleveland, OH 44106-4935.** Methods of analysis include studies of protein/RNA interactions, protein/protein interactions, and *in vitro* translation. Candidates should have experience in molecular biology, gel electrophoresis, and *in vitro* assays. Applicants should contact **Dr. Merrick** by mail or e-mail: wcm2@po.cwru.edu. Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer and encourages the applications of qualified women and minorities.

BACTERIAL GENETICISTS

Two **POSTDOCTORAL POSITIONS** available to study exciting newly discovered aspects of DNA replication in a strong research environment. Expertise in bacterial genetics/molecular biology required. Please write: **M. Zafri Humayun, Ph.D., Professor of Microbiology and Molecular Genetics, University of Medicine and Dentistry of New Jersey-New Jersey Medical School, MSB F-607, 185 South Orange Avenue, Newark, NJ 07103. E-mail: humayun@umdnj.edu.** Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL RESEARCHERS needed for cancer gene therapy and HIV oral infection. Experience in molecular biology and animals is required. Ph.D. or equivalent; *U.S. citizenship preferred*. \$25,000 to \$35,000 per year depending on experience and skills. Please send curriculum vitae by mail or e-mail: shemp@dent.ucla.edu.

GLOBAL OPPORTUNITIES

CHIEF SCIENTIST

To Lead Research in Chemistry and/or Physics of Complex Systems: Permanent Position
RIKEN (The Institute of Physical and Chemical Research)

RIKEN invites applications for the position of Chief Scientist to direct a new laboratory for experimental research on the chemistry and/or physics of complex systems. Individuals with expertise in the creation, utilization, or dynamics of heterointerface, multiphase systems, disorder systems, etc., are encouraged to apply, although excellent candidates in related areas will also be seriously considered. The successful candidate will be responsible for the overall management of the laboratory and research strategy and implementation of research projects, as well as the more general aspects of the Institute's management and research planning activities. The post is a permanent appointment subject to RIKEN's mandatory retirement age of 60. Terms and conditions of employment shall include a director-level salary and shall be in accordance with RIKEN's procedures for appointing Chief Scientists. The successful applicant will be expected to take up this position from April 1, 2001. Applicants should submit complete curriculum vitae with a photograph; a list of publications; one copy each of five key publications; a statement detailing research experience, reasons for her/his application, and proposals for research at RIKEN (the total length for these last items should not exceed five pages of regular-sized paper); and the names and addresses of three references. All applications are to be received by September 30, 2000. Further details are available from the address below. Address materials to:

Dr. Yasuo Wakatsuki, Head of the
Chief Scientist Nominating Committee
Organometallic Chemistry Laboratory, RIKEN
Hirosawa 2-1, Wako-shi, Saitama,
351-0198, Japan

E-mail: waky@postman.riken.go.jp

Information about RIKEN is available at website: <http://www.riken.go.jp/>.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS IN IMMUNOLOGY 2001-2004

The Irvington Institute for
Immunological Research

The Irvington Institute for Immunological Research awards 12 Postdoctoral Fellowships in basic immunology for three consecutive years of work in a laboratory or a hospital in the United States.

M.D.s, Ph.D.s, and M.D./Ph.D.s are encouraged to apply. Candidates with not more than three years of laboratory experience will receive priority. *The Irvington Institute does not have a citizenship requirement; however, applicants from abroad must first obtain sponsorship by a senior scientist in the United States before applying for an Irvington award.*

Stipends are as follows: \$37,000, \$40,000, and \$43,000 for years one, two, and three. Fellowships will begin January and/or July 1, 2001.

The deadline for filing applications is Friday, July 7, 2000. (Applications will not be accepted beyond 3 p.m., July 7, 2000.) Applicants will be notified of the status of their application by late October 2000.

To obtain an application, please write, FAX, or e-mail: Alma I. Ramon, Fellowship Coordinator, The Irvington Institute for Immunological Research, 245 Fifth Avenue, Room 2101, New York, NY 10016. FAX: 212-576-1006; e-mail: irving1@ix.netcom.com.

POSITIONS OPEN

POSTDOCTORAL TRAINING PROGRAM IN NEUROBIOLOGY Columbia University

Emphasis is placed on the analysis of the cellular and molecular basis of neural development, behavior, and behavioral plasticity. Training faculty include Richard Axel, Jane Dodd, Vincent Ferrera, Claude Ghez, Daniel Goldberg, James Goldman, Jacqueline Gottlieb, Lloyd Greene, Robert Hawkins, René Hen, Joy Hirsch, Thomas Jessell, Eric Kandel, John Koester, Arnold Kriegstein, Irving Kupfermann, Ronald Liem, Amy MacDermott, John Martin, Carol Mason, Ning Qian, Stephen Rayport, Lorna Role, Samuel Schacher, Claudia Schmauss, James Schwartz, Michael Shelanski, Steven Siegelbaum, and Dominique Toran-Allerand. Applicants for this NIMH-sponsored program must have the M.D., Ph.D., or D.V.M. degree and be either U.S. citizens or have permanent residency status. Send curriculum vitae, a letter describing your research interests, and three letters of reference to: Admissions Committee, Postdoctoral Training Program, Center for Neurobiology and Behavior, 1051 Riverside Drive, Unit 87, New York, NY 10032. Columbia University takes Affirmative Action to ensure Equal Opportunity.

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U.S. Patents 5,108,182; 5,263,048; 5,450,707
5,459,073; 5,449,517; 5,811,094; others pending



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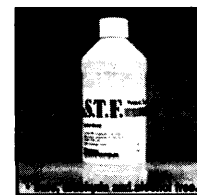


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U.S. Patents 5,108,182 and 5,260,048

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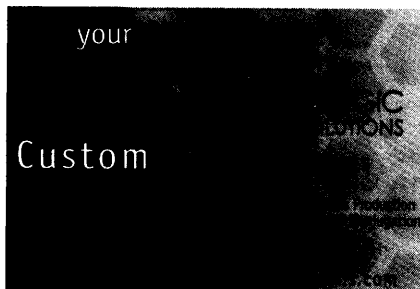
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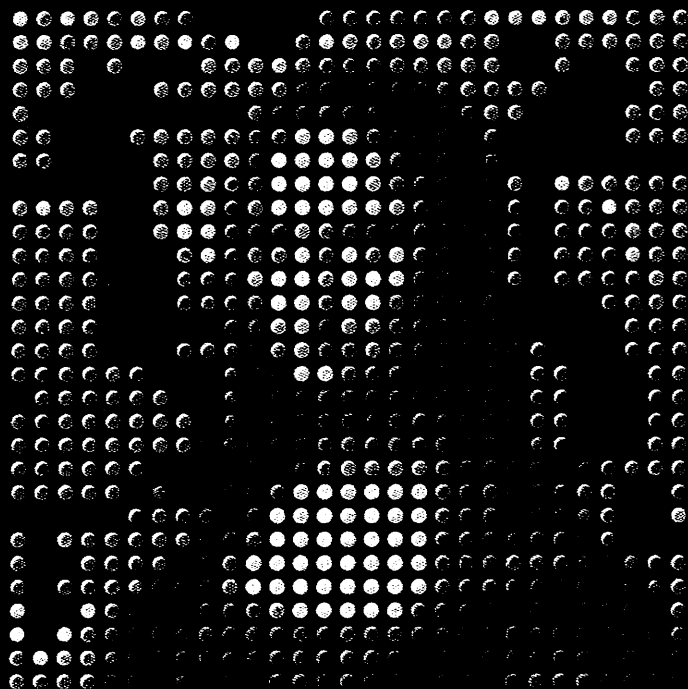
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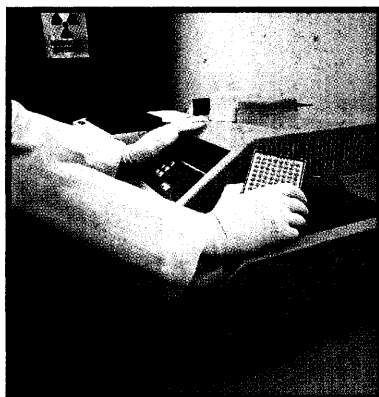
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