

NEW PRODUCTS

SysQuake 1.3 Calerga

Lausanne, Switzerland
\$570 (academic), \$1400
41-21-648-7392
www.calerga.com

INTERACTIVE MODELING

SysQuake is a program to assist engineers and scientists with the complex processes of automatic control and signal processing. The program is used for three main purposes: understanding basic concepts, designing systems, and developing and/or testing new design

methods. SysQuake uses specialized scripts in a fairly simple language that allows one to display graphics and change the means of updating them. The software is useful as a teaching tool because its graphics dynamically respond to manipulation of variables.

A 372-page manual comes with the program disk and includes examples from preloaded data sets that the user can modify with scripts. SysQuake supports interactive design by instantly updating graphics describing the effects of varying input parameters on the output variables. One example illustrates how the height of a building affects the amplitude of its oscillation during an earthquake. Changing the height immediately produces changes in the oscillations. After a display is selected and the system's numerical parameters are entered, the program generates the graphics. Data can then be manipulated by the user to achieve the desired performance.

The many sample files and the examples in the manual are excellent illustrations of both the capabilities of the program and its nuances. Accessing a frequency-response graph pair in a sampling rate file readily demonstrates that clicking and dragging any sample point or vertical sampling rate line will change the curves and responses of both graphics. By right-clicking within a graph, one can easily modify the type of plot and its axis scale (e.g., log versus normal). The novice will especially appreciate many special features, including the Undo command. Rather than merely offering to undo the last action, this command will allow back-stepping through all of the previous actions to place intermediate steps in the viewing area. The submenus on the menu bar change depending on the file and offer extensive options for analyzing and changing not only the graphics but also the image files. To stretch SysQuake's capabilities to the fullest through either modification of pre-existing models or design of new ones, the user must learn the program's interpreter, file structure, and programming. This is actually no more difficult than producing graphics in high-level languages such as SAS or Mathematica, and the code is readily recycled.

SysQuake is easy to learn and use, and it offers an unusual approach to software-based systems design and process learning. The program is available in PC and Macintosh versions; more information and a demo version are available at the Web site.

—John A. Wass

Abbott Laboratories, Architect Immunochemistry R&D, Abbott Park, IL 60064, USA.
E-mail: John.Wass@add.ssw.abbott.com

Genotech

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PROTEASE COCKTAIL

FOCUS-Protease Arrest is a protease cocktail developed for sample preparation for two-dimensional studies such as iso-electric focusing and two-dimensional gel electrophoresis. No EDTA is used, which allows optimal action of nuclease activity for removing nucleic acids from the samples. It

contains agents to inhibit serine, cysteine, metallo-proteases, and calpains protease. It contains both irreversible and reversible protease inhibitors. Due to the optimized concentration of the various inhibitors, it shows excellent inhibition of protease activities and is therefore suitable for the protection of proteins from animal tissues, plants, yeast, and bacteria.

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SEQUENTIAL EXTRACTION KIT

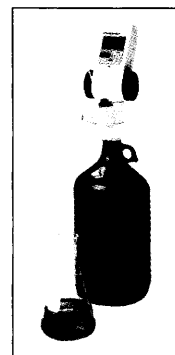
The ReadyPrep sequential extraction kit is a ready-to-use extraction kit based on the differential solubility of proteins. The kit produces two-dimensional (2D) arrays in which the entire proteome is better represented due to more complete solubilization of proteins. Moreover, the standardization of both protocol and reagents results in 2D arrays that are reproducible run to run.

Brinkmann

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This Bottletop Buret makes manual titration safer and easier, with more reliable results. Titrant delivery is controlled by turning a wheel, and the amount dispensed is instantly displayed—from 10 μ l to 999.9 ml. The design eliminates the errors of reading the meniscus and volume graduations of conventional hanging glass burets. There is no exposed glassware to break, and direct connection to the reagent bottle avoids the need to pour dangerous chemicals. A safety recirculating valve eliminates reagent waste during priming of the buret before use. A telescoping discharge tube allows for easy dispensing into flasks of all sizes.



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SimplyBlue SafeStain is a ready-to-use Coomassie G-250 stain formulated to give fast, sensitive, and safe staining results. After just 5 min in the SimplyBlue staining reagent, 1 μ g of protein can be detected. An optional water-based destaining step can be performed to achieve sensitivity as low as 7 ng of protein. SimplyBlue does not require acid/alcohol fixatives or destains and is nonhazardous.

Labconco

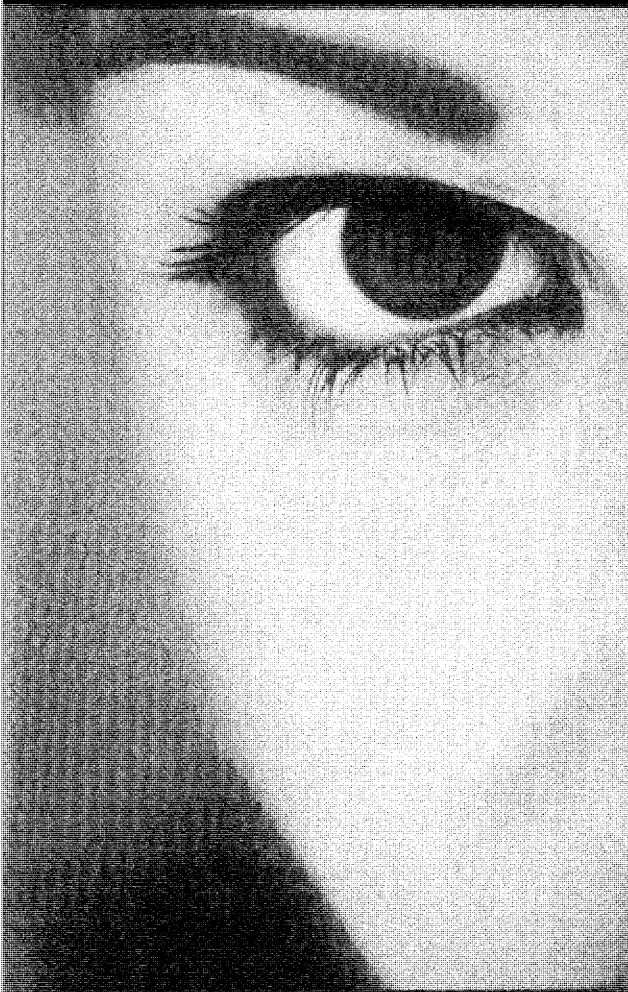
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DNA CONCENTRATOR

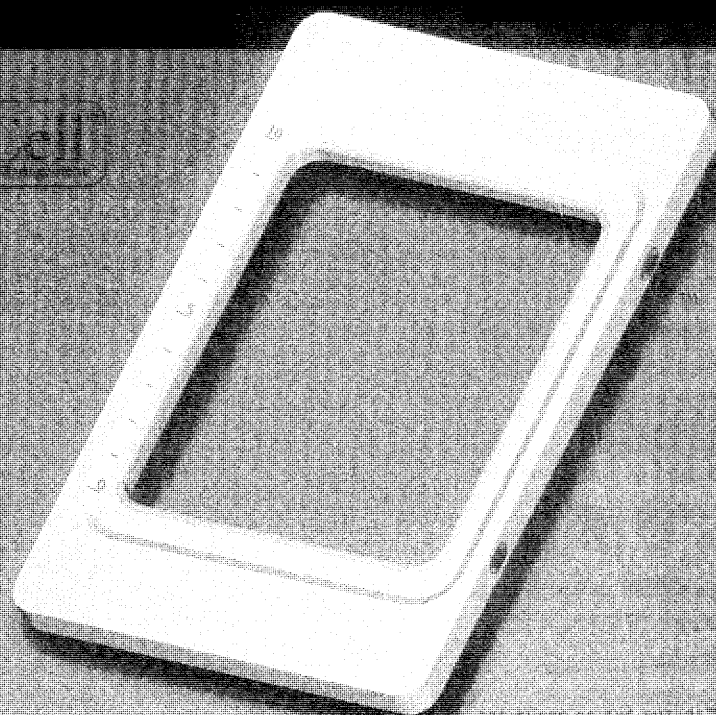
The CentriVap DNA Centrifugal Concentrator makes use of centrifugal force and vacuum to safely concentrate DNA samples. Up to 60 1.5-ml samples and 72 0.5-ml samples can be processed at once. With a built-in, removable pump, the instrument has nine user-set programs. Separate heat and run times allow the heat to be turned off sooner than the rotation to protect heat-sensitive samples from excessive heat expo-

CONTINUED ON PAGE 897

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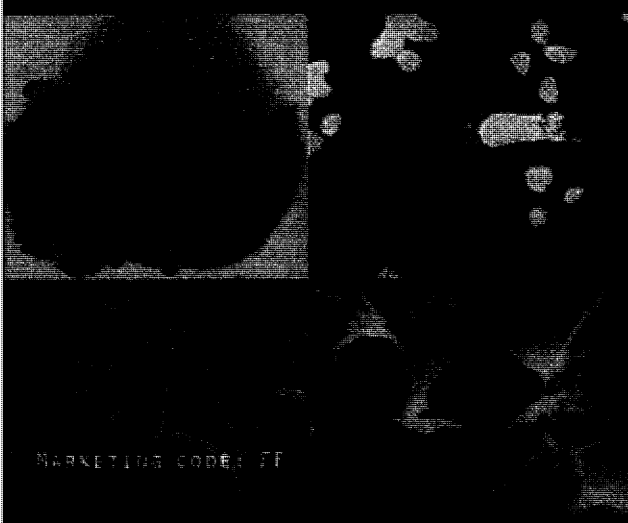
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The Shape of the Future



THE SHAPE OF THE FUTURE

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sure. Both an inlet trap that collects liquid coming off the samples and an exhaust trap that collects liquid coming off the pump exhaust are included. An optional strobe light that flashes at the same frequency as the rotation of the rotor allows samples to be viewed while still spinning.

Eastman Kodak

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eliminating the cost of instant film and the guesswork of 35-mm film. The user can access, adjust, print, publish, or share image files instantly from a Macintosh or PC. Used with a standard USB connection, the MDS 290 captures photo-quality images of brightfield, darkfield, and bright fluorescence microscopy specimens. An included software module leverages the features of Adobe Photoshop 5.0 and features a variety of software filters to enhance and optimize microscopy images.

Columbus Instruments

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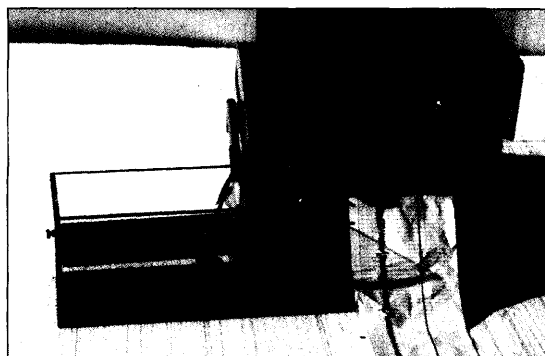
high sensitivity, is able to monitor movements associated with respiration. Proxy-2000 requires two electrodes, one on top of the animal cage and one on the bottom. Sensitivity can be increased by placing the top electrode closer to the animal. The proximity

CAMERA FOR LIGHT MICROSCOPES

The MDS 290 is a 2.1-million pixel, charge-coupled device imaging system for optical microscopy imaging. The MDS 290 is designed to make capturing photo-quality digital images of specimens fast, easy, and economical—

PROXIMITY SENSOR

The Proxy-2000 capacitive proximity sensor is able to monitor minuscule movements of lab rats and mice, including respiration. The sensor has two inputs. One input, of low sensitivity, provides a signal proportional to the size of the animal movement. The other, with



sensor was developed for studying apnea in genetically defective animals but can also be used to monitor activity during oxygen consumption measurement, as well as other applications. Signals can be fed to a computer for processing or storage.

Packard

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AUTOMATED LIQUID HANDLING

The MultiPROBE II automated liquid handling system now includes a six-way valve and software that allows the user to dispense up to six different system fluids. The new feature permits fast multiple reagent additions with programmed switching for walk-away convenience. Users no longer have to change liquids during long experiments. Applications of this feature include enzyme-linked immunosorbent as-

says with multiple wash steps; cell viability assays that require multiple reagent additions to start the assay; biochemical assays that require a stop reagent such as myeloperoxidase measurement; microsomal assays; solid-phase extraction that involves conditioning, wash, and elution liquids; and DNA vacuum filtration-based extraction technology. The MultiPROBE II also offers a low-volume tip option, with tips for dispensing in the range of 200 nl to 500 nl.

Nucleotech Corp

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VISIBLE AND FLUORESCENCE IMAGING AND ANALYSIS

The NucleoVision 760 is a complete imaging workstation designed for advanced densitometry analysis. The system helps researchers take maximum advantage of a rich and growing source of information based on images including electrophoretic gels, autoradiographs, blots, and even three-dimensional objects. The system offers accurate densitometry and molecular weight calibration, data reproducibility, and automation under an easy-to-use interface designed for the molecular biologist. Applications of the system include one-dimensional gel analysis, protein gels, Southern blots, Northern blots, polymerase chain reaction, colony and plaque counting, and microscopy.

Zeiss

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AUTOMATED CELL SCAN SYSTEM

The Automated Cell Scan (ACS) System incorporates a comprehensive environmental incubation and temperature control system allowing the use of multi-well plates for the simultaneous monitoring of multiple or single experimental values. The ACS System is designed to study reporter gene expression in living cells using fluorescence proteins as markers, or to monitor subcellular localization of chimeric proteins in a cell-cycle, time-dependent manner. The system allows tracing of the direct lineage of a single cell expressing a gene of interest or one that has been treated with a specific compound that may affect cell cycle progression. It also permits the monitoring of accumulated cell deaths following various experimental treatments. The ACS system's ability to scan multi-well plates under full environmental control and creation of time-lapse sequences can be streamlined to accommodate high-throughput screening for compounds that regulate cell growth or apoptosis.

Porous Materials, Inc.

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LITERATURE

Different testing techniques and instruments available for characterizing porosity are based on different principles and, therefore, do not provide the same information. For that reason, proper selection of one or more techniques requires matching of the characteristics of the test and the requirements of the application. This porosity characterization chart matches appropriate instruments and techniques to applications, based on important properties such as pore size, mean pore size, pore distribution, gas and liquid permeability, and system integrity.

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POSITIONS OPEN

TENURE-TRACK POSITION

Functional Genomics and Bioinformatics

The University of Florida, Shands Cancer Center, invites applications for a tenure-track faculty position at the rank of **ASSISTANT PROFESSOR** or above in functional genomics and bioinformatics. Successful applicants will join a multidisciplinary team of researchers from around the campus as a member of the Cancer Center and the University of Florida Genetics Institute. Applicants will be expected to develop a competitive, independent research program with the ultimate goal of bringing the power and promise of genomic research to problems of the specific oncological diseases. Individuals studying model organisms are encouraged to apply. The successful applicants will join the faculty of the College of Medicine with their department affiliation being determined by their specific research interests. Applicants must have an M.D. and/or Ph.D. degree and a demonstrated record of expertise either in functional genomics or bioinformatics. Applications will be reviewed starting March 1, 2001, but the application will remain open until a suitable candidate is found. Salary and rank will be commensurate with experience. Interested applicants should submit their curriculum vitae, a brief description of their research interests, and the names of three individuals from whom recommendations can be solicited. Send requested information to: **Dr. Richard W. Moyer, Search Committee Chair, University of Florida, Department of Molecular Genetics and Microbiology, P. O. Box 100266, Gainesville, FL 32610-0266.** The University of Florida is an Equal Employment Opportunity/Affirmative Action Employer.

JUNIOR OR SENIOR FACULTY POSITION IN STRUCTURAL BIOLOGY

School of Medicine
Department of Cellular
and Molecular Physiology
Yale University

Applicants are solicited for a faculty position at the junior or senior level in the Department of Cellular and Molecular Physiology, Yale University School of Medicine. Candidates must hold a Ph.D., M.D., or equivalent degree. The candidate's research interest should be in the general area of cellular and molecular physiology with particular emphasis in the structural biology of ion channels, ion transporters, or related membrane proteins. Excellent opportunities are available for collaborative research as well as for graduate and medical student teaching.

Qualified women and minority group members are encouraged to apply. Complete curriculum vitae, a statement of research interests and goals, and three letters of reference should be sent by April 1, 2001:

Dr. Steven C. Hebert, Chair
Department of Cellular and Molecular Physiology
Yale University School of Medicine
333 Cedar Street
P.O. Box 3333
New Haven, CT 06510

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LECTURER in biological sciences. Two-year, renewable, full-time, nontenure-track position starting September 2001. Required: Ph.D. in life sciences; specialty in neuroscience or physiology; demonstrably excellent teaching record. Responsibilities: six courses (seminars, lecture classes, laboratory classes; typically two per quarter); directing independent study projects; advising. Send letter, curriculum vitae, and teaching evaluations and have three letters of reference sent directly to: **Jon E. Levine, Director, Biological Sciences, Northwestern University, Hogan Hall, Evanston, IL 60208-3510.**

See website: <http://www.biosci.northwestern.edu/program/forms.html>. Address any inquiries to: **Professor Levine**; e-mail: wrkgonit@northwestern.edu. All materials must arrive by April 2, 2001. *Equal Opportunity Employer/Affirmative Action. Female and under-represented minority candidates are strongly encouraged to apply.*

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR in biotechnology. The Department of Civil and Environmental Engineering at the University of Tennessee is seeking a person with an earned Doctoral degree in civil/environmental engineering or closely related field and demonstrated research productivity in the application of novel biotechnological processes relevant to engineered/environmental systems. Candidates should have strong interdisciplinary skills and a commitment to the development of bioanalytical and molecular-based tools for use in basic and applied research. Experience in molecular-level research involving activities such as environmental remediation, subsurface contaminant fate/transport and engineered processes for the treatment of waste water, agricultural wastes, municipal/industrial sludges, or potable water is desired. Collaborative research participation within the Biotechnology Center is expected. More information can be found on the Positions page at website: www.engr.utk.edu/civil/. Applicants should submit a letter of interest accompanied by their curriculum vitae; a description of research interests and career objectives; graduate transcript(s); and the names, addresses (including e-mail), and telephone numbers of three individuals who can evaluate the applicant's qualifications for the position. Applications from women and minorities are especially invited. All material should be sent to: **Dr. Kevin G. Robinson, Chair of Search Committee, Department of Civil and Environmental Engineering, The University of Tennessee, Knoxville, TN 37996-2010.** UT 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.

ASSISTANT/ASSOCIATE PROFESSOR of entomology, tenure track, Penn State University. Extension (60%): Interact directly with animal industry to develop and deliver program in support of animal industry in Pennsylvania and the Northeast. Research (40%): on insect biology and ecology leading to IPM in livestock/poultry production industry. Develop nationally recognized program with colleagues in other departments. Collaborate regionally and with state and local government in development of IPM programs. Active involvement in mentoring graduate students. Ph.D. in entomology, ecology, or related discipline. Research expertise in ecology, behavioral ecology, biocontrol, or insect-vectored animal or food pathogens. Strong interpersonal skills and ability to maintain extramural grant support required. Submit letter, curriculum vitae, transcripts, statement of research interests, and names and addresses of five professional references to: **Dr. Gary Felton, Head, Department of Entomology, 501 ASI Building, Box S, Penn State University, University Park, PA 16802.** Closing date: April 15, 2001, or until a qualified candidate is identified. Penn State is committed to Affirmative Action/Equal Opportunity and the diversity of its workforce.

TENURE-TRACK POSITION

MICROBIOLOGY AND IMMUNOLOGY

Indiana University School of Medicine, Northwest Center for Medical Education, is seeking applicants for a tenure-track position as **ASSISTANT/ASSOCIATE PROFESSOR**. Successful candidate will participate in teaching, research, and service missions of the Center. Strong commitment to medical student teaching in a problem-based curriculum in microbiology and immunology is required. Candidate will be expected to develop and maintain an innovative, externally funded research program. Preference will be given to candidates with ability to attract extramural funding and whose research expertise complements ongoing programs. Applicants must have a Ph.D. and/or M.D. or equivalent degree. Send curriculum vitae, a description of research, statement of teaching philosophy, and three letters of reference to: **William Baldwin, Ph.D., Assistant Dean and Director, Indiana University School of Medicine, 3400 Broadway, Gary, IN 46408.** *Equal Opportunity/Affirmative Action Employer; Minorities/Females/Disabled.*

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Metabolism & Pharmacokinetics Princeton, NJ

Metabolic Scientist: B.S./M.S. with entry-level to 4 years experience to perform and report pharmacokinetic and metabolism studies of potential drug candidates. Selected candidate will develop and apply appropriate analytical methods to quantitative drug and metabolite levels in biological samples, and devise and implement appropriate in vitro methods to screen compounds for metabolic/pharmacokinetic characteristics. Experience with analytical methods, including HPLC-UV and HPLC-MS, is required; familiarity with laboratory techniques, such as in vitro metabolism, in vivo metabolism and pharmacokinetic experiments, and basic principles, is essential. **Job Code: PRNR311KB**

Associate Research Scientist: B.S./M.S. with 2-3 years experience with analytical methods, including HPLC/UV, HPLC/MS, NMR and liquid scintillation counters, to quantify, isolate and purify drugs and drug metabolites in biological samples. Selected candidate will also develop analytical methods to isolate and identify metabolites in biological samples. Experience with laboratory techniques such as in vitro metabolism, in vivo metabolism and analysis of drug and metabolites in biological fluids is desired; experience handling radioactive materials is required. **Job Code: PRNR311RI**

Metabolic & Cardiovascular Drug Discovery Princeton, NJ

Molecular/Cellular Biologist: B.S./M.S. in Molecular/Cellular Biology or Biochemistry with 2-6 years experience to provide molecular support for drug discovery programs. Additional responsibilities will include generating and maintaining mammalian cell lines, developing and performing enzymatic and receptor binding assays and the design and implementation of a variety of new or published assays for use in identifying and optimizing potential drug candidates. Experience in mammalian tissue culture techniques including transfection & selection of stably expressing cell lines, ligand binding assays, enzymatic assays, RIAs, EIAs is required; knowledge of cell culture techniques, protein purification is desired. **Job Code: PRNR311CM**

Immunology, Inflammation, Pulmonary & Dermatology Princeton, NJ

Immunologist: Ph.D. in related science with 2+ years experience in the industry to identify and validate novel drug targets in immunological and inflammatory diseases. Additional responsibilities will include establishing and validating assays for the identification of small molecule and biological therapeutics. Experience in drug and/or novel target discovery, along with validation background, is required; working knowledge of applied and functional genomics is desired. Familiarity with inhibitory receptor function is required. **Job Code: PRNR311PK**

Pulmonary Specialist: Ph.D. with 3-5 years postdoctoral experience in pre-clinical in vivo models of allergy, asthma, COPD and lung inflammation to conduct in vivo studies supporting the pre-clinical development of novel compounds for inflammatory and immune-mediated pulmonary diseases. Solid understanding of immunological principles involved in the pathogenesis of pulmonary disease is required. **Job Code: PRNR311KM**

Oncology Drug Discovery Princeton, NJ

Oncologist: Ph.D. in related science with 3-5 years experience to supervise and assist with the design and implementation of assays and models for the testing of compounds and other programs as assigned. Strong experience in hormone receptor, transcription, or signal transduction biology with an emphasis toward developing functional cell and in vivo based assays is required; background in developing drug screen paradigms for discovery programs is desired. Strong knowledge of molecular biology, applied genomics-bioinformatics, cell biology, pharmacology, statistics and data management is desired, along with 1-2 years experience in pharmaceutical discovery research. **Job Code: PRNR311RA**

Oncology Researcher: B.S./M.S. with 2-7 years experience with mammalian cell culture, including cell line maintenance, transfections, and cell-based assays to work as a member of a multi-disciplinary team in the identification of new cancer therapeutics. The preferred candidate will have additional experience in protein biochemistry, assay development, immunocytochemistry, or molecular biology. Excellent data management and communication skills are required. **Job Code: PRNR311DR**

Aging Research Hopewell, NJ

Molecular Biologist: B.S./M.S. with 2 years experience in basic molecular biology, cell biology and biochemistry techniques to participate in drug discovery in the area of bone disease, specifically osteoporosis. Experience with cloning, cell culture gene expression and knowledge of assay development and bone biology are desired. **Job Code: PRNR311SJ**

Metabolic Diseases Hopewell, NJ

In Vivo Specialist: B.S./M.S. with 3-5 years experience with in vivo model development and utilization to design and perform biological assays utilizing animal models of metabolic diseases such as diabetes, obesity and/or hyperlipidemia. Background with non-human primate research is desired; experience in dosing and sampling is required, along with knowledge in maintenance & operation of bioanalytical equipment associated with metabolic analysis. Management of data acquisition and analysis, as well as database maintenance, is desired. **Job Code: PRNR311SH**

Vascular Biology Princeton, NJ

Physiologist: Ph.D. with 3-5 years experience with in vivo and ex vivo assay methodologies to identify and apply state-of-the-art technologies to demonstrate in vivo and ex vivo pharmacodynamics and proof-of-principle in early and full phase drug discovery programs. Knowledge of technology, equipment and techniques employed for in vivo physiologic measurements, biochemical spectroscopy and functional imaging is required; experience with developing pharmaceutical exposure-response relationships in pre-clinical in vivo models is essential. **Job Code: PRNR311MO1**

In Vivo Specialist: M.S. in Molecular/Cellular Biology, Biochemistry, Pharmacology or Physiology with 5 years experience with in vivo and ex vivo assay methodologies to identify and develop assays for pharmacodynamic measurements and biomarkers of efficacy. Knowledge of technology, equipment and surgical techniques employed for in vivo physiological measurements is required; experience with preclinical animals is essential. Background in Biochemical Spectroscopy and functional imaging is a plus. **Job Code: PRNR311MO2**

For positions in Princeton and Hopewell, NJ, send resume to:

**Bristol-Myers Squibb Company
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P.O. Box 4000, Princeton, NJ 08543-4000
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Director, Lombardi Cancer Center Georgetown University Medical Center

Georgetown University Medical Center is recruiting an individual to serve as Director of the Lombardi Cancer Center and Chair of its Department of Oncology.

The Lombardi Cancer Center has nearly 150 faculty members who are involved in basic and translational cancer research. The Lombardi Cancer Center is an NCI-designated Comprehensive Cancer Center and is the only such center serving the greater Washington, DC area of 4 million people. The center supervises more than \$55 million in sponsored research in areas including Tumor Biology, Cancer Genetics, Cancer Prevention, and Developmental Therapeutics. In addition, there are multiple training grants and programs within the cancer center including a degree-granting program in Tumor Biology. The Department of Oncology is a university department comprised of divisions of basic, translational, clinical and population science research, which includes both teaching and research faculty.

We are seeking an outstanding scientist with substantial research experience in Oncology, a successful record of peer-reviewed funding or the equivalent, and significant administrative experience. This individual will interact with and supervise a broad range of basic research scientists, population scientists, and clinical researchers. Substantial resources and opportunities exist for building multiple programs at a university committed to academic traditions and translational research. Women and minorities are encouraged to apply. Interested candidates are invited to send a CV to John Richert, MD, Chair, Search Committee, Lombardi Cancer Center, Georgetown University Medical Center, E501 Research Building, 3970 Reservoir Road, NW, Washington, DC 20007.



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Please send resume to: Covance Biotechnology Services, Inc., Vice President, Human Resources, 6501 Weston Parkway, Suite 200, Cary, NC 27513; FAX: (919) 678-4493; Email: biotechcareers@covancebio.com. Only those selected for further consideration will be contacted. PRINCIPALS ONLY. EOE/AA m/f/d/v



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HARVARD UNIVERSITY

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

Professor Jeremy Bloxham, Chair
Department of Earth & Planetary Sciences
Harvard University
20 Oxford Street
Cambridge, MA 02138 USA

We will begin reviewing applications on December 1st. We particularly encourage applications from women and minorities. Harvard University is an Affirmative Action/Equal Opportunity Employer. For more information about the department, you may visit our web site at www.eps.harvard.edu.



FY2001 Grants for International Joint Research in the Areas of Materials, Energy and Global Environment

The New Energy and Industrial Technology Development Organization (NEDO), which is subsidized by the Ministry of Economy, Trade and Industry (METI) formerly Ministry of International Trade and Industry (MITI), has been conducting the International Joint Research Grant Program. This program aims to promote advancement of the international level of industrial technology and enhancement of international researcher exchange, and the results achieved are expected to create the basis for new key industrial technology. In this regard, NEDO will provide grants to international joint research teams which conduct excellent, innovative and original research in the areas of materials, energy, global environment and international standard development. For the global environment area, this program will be carried out jointly with the Research Institute of Innovative Technology for the Earth (RITE).

Requirements:

- 1) Each team must, in principle, be composed of four (4) or more researchers.
- 2) Each team must consist of researchers of two (2) or more nationalities.
- 3) The affiliates (where the joint research will be performed) must be located in two (2) or more countries.
- 4) Each team must appoint a research coordinator and an accounting coordinator from among its members. (A research coordinator can also serve as the accounting coordinator.) The accounting coordinator's research institute and research location must be in Japan, and he/she must be able to communicate with NEDO in Japanese.

Research Area	Field of Research	Amount of Each Grant in FY2001	Number of Themes to be Adopted	Recipient of Applications
Materials	Basic research concerning the investigation, elucidation and practical use of materials which will lead to the creation of new industries	About 24,000,000 yen	10 themes	NEDO (Note a.)
Energy	(Related to power generation) Practical research on industrial technology concerning utilization of oil-alternative energy for power generation, leveling of electric loads and related global environment conservation	About 30,000,000 yen	1 theme	
	(Efficient use) Practical research related to industrial technology for efficient use of energy, excluding power generation	About 30,000,000 yen	4 themes	
Global Environment	(Basic research) Basic research on conservation and improvement of the global environment in industrial technological areas	About 24,000,000 yen	2 themes	RITE (Note b.)
	(Practical research) Practical research on industrial technology concerning the production, generation and utilization of oil-alternative energy, excluding electric power generation technologies, which contributes to conservation and improvement of the global environment	About 30,000,000 yen	1 theme	

For FY2001, there will be no announcement for the International Standard Development area.

The application period will be from January 15, 2001 to March 14, 2001. (All applications must reach NEDO by the deadline.)

Application Forms:

Application forms can be downloaded from <http://www.nedo.go.jp/itd/grant-e/index.html>

Recipient of Applications:

Note a: Materials and energy areas:

International Joint Research Division
Research Grant & Fellowship Department
New Energy and Industrial Technology
Development Organization (NEDO)

Address: PO Box 1151, 29th Floor, Sunshine 60 Bldg.,
1-1 Higashi-Ikebukuro 3-chome,
Toshima-ku, Tokyo 170-6028 Japan

Telephone: +81-3-3987-9357

Fax: +81-3-5952-0082

E-mail: nedogrant@nedo.go.jp

Homepage: <http://www.nedo.go.jp/itd/grant-e/index.html>

Note b: Global environment area:

Research Proposals Reception Section,
Research Planning Department
Research Institute of Innovative
Technology for the Earth (RITE)

Address: 9-2, Kizugawadai, Kizu-cho, Soraku-gun,
Kyoto 619-0292 Japan

Telephone: +81-774-75-2302

Fax: +81-774-75-2314

E-mail: proposal@rite.or.jp

Homepage: <http://www.rite.or.jp>

Notes:

1. This program is subject to availability of appropriated government funds.
2. Please note that the grant amount and number of themes to be adopted may be changed.
3. To ensure the innovativeness of proposed research themes, up to two (2) applications using the same research plan are acceptable.
4. Regarding an application, if it does not follow the instructions described in the International Joint Research Application Guidebook, or the proposed research has no relevancy to the above areas, it will not be considered.

WE'VE GOT CAREERS



With a new state-of-the-art facility in Research Triangle Park, Covance Biotechnology Services, Inc. provides the biotechnology and pharmaceutical industry with world-class process development and cGMP manufacturing for recombinant products. Join us as we put our clients' products and your career onto the fast-track. We are currently recruiting for the following key positions:

■ SENIOR SCIENTISTS/SCIENTISTS, CELL CULTURE PROCESS DEVELOPMENT

In this position, you will be responsible for the development of cell culture processes (mammalian, hybridoma and insect cell) for the manufacture of biopharmaceuticals. These processes may be used internally by our group for Phase I/II clinical material cGMP production or transferred to our large-scale cGMP manufacturing facility. We are looking for candidates with hands-on experience in the areas of cell banking, adaptation to serum and protein-free medium, fed-batch and perfusion process development, operation of small and large bioreactors. Knowledge of relevant analytical techniques and a good understanding of cell biology and cell line development are also essential. You should have a Ph.D. (or equivalent experience) in Cell Biology, Microbiology.

■ SENIOR SCIENTISTS/SCIENTISTS, PROTEIN CHEMISTRY

The Analytical Process Development group is seeking a protein chemist with 5+ years' experience in characterizing recombinant proteins. The position requires significant experience in developing assays to assess identity, purity and strength of drug substance as well as identifying and quantifying process-derived impurities. Effective communication/supervisory skills and familiarity with cGMP policies and regulatory testing required.

■ SENIOR SCIENTISTS/SCIENTISTS, FORMULATION DEVELOPMENT

In this position, you will be responsible for the development of formulations for protein therapeutics. Candidate should be knowledgeable in the field of biophysical chemistry and in techniques to achieve protein formulations with long term stability. Should have experience in developing liquid and lyophilized formulations. Experience should include spectroscopic (UV, light scattering, CD, fluorescence), chromatographic and electrophoretic methods for characterization of protein degradation. A Ph.D. (or equivalent experience) in Biochemistry/Protein Chemistry/Pharmaceutics and 2+ years' relevant experience required.

■ SENIOR SCIENTISTS/SCIENTISTS, PURIFICATION DEVELOPMENT

In this position, you will develop processes for the recovery and purification of proteins from bacterial, yeast, and mammalian recombinant sources. These processes will be used to isolate biopharmaceuticals for use in human clinical trials. A Ph.D. and 5+ years' appropriate experience in Biochemistry or Protein Chemistry is required. A successful record of purification process development leading to the preparation of human clinical trial materials in an industrial setting will be considered a significant plus.

Please send resume to: Covance Biotechnology Services, Inc., Vice President, Human Resources, 6501 Weston Parkway, Suite 200, Cary, NC 27513; FAX (919) 678-4493; Email: biotechcareers@covancebio.com. Only those selected for further consideration will be contacted. PRINCIPALS ONLY. EOE/AA m/f/d/v

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"Emerging Viral Diseases"

Keynote Address: Tom Shenk (Princeton)

June 13-16, 2001

University Park Campus

Session I - Viral Entry, Assembly and Release

John Wills (Hershey Medical Center)
Marie Chow (U. Arkansas Med)
Mary Estes (Baylor College of Medicine)
Robert Lamb (Northwestern)

Session II - Viral Replication Mechanisms

Paul Ahlquist (U. Wisconsin)
Stuart F. J. Le Grice (NIH)
Christopher Hellen (SUNY Brooklyn)
Peter Bullock (Tufts)

Session III - Viral Pathogenesis: Mechanisms and Model Systems

Donald Mosier (Scripps)
Matthias Gromeier (Duke)
Michael Buchmeier (Scripps)
Diane Griffin (Johns Hopkins)

Session IV - Emerging Viral Diseases and Antiviral Therapy

Priscilla Schaffer (Harvard)
W. Ian Lipkin (UC Irvine/Columbia)
Craig Cameron (Penn State)

Registration: Faculty & Researchers \$170, Postdoctoral Scholars & Technicians \$100, Graduate Students \$50, Undergraduate Students \$25
For more information, contact Betsy King, Program Assistant
201 S. Frear Lab, University Park, PA 16802-6005, Phone (814) 863-1918,
Fax - (814) 863-7024, or Email - brk12@psu.edu

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Penn State is committed to affirmative action, equal opportunity, and the diversity of its workforce.

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THE NATIONAL RESEARCH COUNCIL

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Applicants are sought for a competitive award to be offered for research to be conducted in the Geospace Applications and Development Directorate at the National Aeronautics and Space Administration's Stennis Space Center. The awardee will work independently on a project of his/her own design that addresses remote sensing applications of coastal (Case 2) waters, development and validation of bio-optical properties (algorithms) derived from ocean color, and analysis of data for calibration-validation program.

Duration of award is one year renewable in annual increments for a total of three years maximum. Award includes annual stipend of \$43,000 for recent Ph.D. recipients. Stipend is appropriately higher for more experienced investigators. Additional provisions include support for relocation and professional travel and an available health insurance program.

Postmark deadlines for Application are April 15, August 15 and January 15.

For further information contact: Dr. Richard L. Miller,
NASA, Geospace Applications and Development Directorate
MA00, BLDG. 1100, Stennis Space Center, MS 35929
TEL: (601) 688-1904 FAX: (601) 688-1777

EMAIL: richard.miller@ssc.nasa.gov

Application materials can be obtained from the NRC Web site at

<http://national-academies.org/rap>

For questions or assistance, contact:

The Associateship Programs, National Research Council
2101 Constitution Avenue NW, (TJ2114/M3), Washington, DC 20418
TEL: (202) 334-2760 FAX: (202) 334-2759

EMAIL: rap@nas.edu



National Exposure Research Laboratory Post-Doctoral Program Human Health Exposure

The National Exposure Research Laboratory (NERL) of the United States Environmental Protection Agency is seeking candidates to fill as many as **32 federal, four-year post-doctoral research positions** during the coming year. NERL conducts research and development related to the exposure of people and ecosystems to a wide range of pollutants in the air, water, and soil, and to other environmental changes resulting from human activities at a wide range of scales including landscape alterations. This research encompasses areas such as environmental monitoring and characterization (physical, chemical, biological, and microbiological); computer modeling of the transport, transformation, and fate of pollutants in multiple media and at multiple scales; and human and ecological exposure analysis (including the development of exposure biomarkers and bioindicators). NERL also field-tests, evaluates, and demonstrates the applications of these findings to environmental problems of national importance to EPA's regulatory and regional offices, other federal agencies, and state, local, and tribal governments. Among NERL's current priorities are exposure of humans to airborne particulate matter and emerging microbial pathogens (bacteria, protozoan parasites, and viruses) in water supplies; exposure of children to pesticides; and multi-media, multi-pathway exposure modeling in humans.

Because of the broad range of NERL's research mission, we are seeking candidates from a wide range of disciplinary backgrounds, including environmental science, chemistry, biology, molecular biology, bacteriology, protozoology, virology, ecology, applied mathematics and statistics, human health sciences, computer science, and environmental engineering. The preferred candidate will have earned a Ph.D. in one of these areas within the last five years or will have it awarded not later than August 31, 2001.

The NERL post-doctoral positions will be located in a Division in one of the following locations: Research Triangle Park, North Carolina; Reston, Virginia; Cincinnati, Ohio; or Athens, Georgia; depending on the particular disciplinary focus, and will be filled beginning **June 2001**. Successful applicants will begin work before October 1, 2001. These excepted service appointments will last for four years and offer a salary range of **\$43,326 - \$69,431**, commensurate with qualifications. The selected candidates will be eligible for a **full benefits package**, including relocation expenses, health insurance, life insurance, retirement, and vacation and sick leave benefits. **Applicants must be United States citizens or permanent residents. Only in the absence of qualified U.S. citizens will permanent residents who are citizens of countries specified as exceptions to the appropriations act ban on paying non-U.S. citizens be considered.** Further information on Federal employment of non-citizens is available at <http://www.opm.gov/employ/html/citizen.htm>.

The filing deadline for these post-doctoral positions is **April 6, 2001**. If you are interested, please send the following to Ms. Dorothy Carr, U.S. Environmental Protection Agency, Human Resources Management Division (MD-29), Research Triangle Park, NC 27711, Attn: NERL/Human Health Exposure Post-Doctoral Program: **a curriculum vitae, a letter of recommendation from your senior research advisor or other comparable official, and a letter indicating your research focus, desired position(s) you prefer** (see NERL Internet site below for specific positions), **country of citizenship, and citizenship status** (citizen or permanent resident). If you are claiming veterans' preference, please include your **DD-214** with your application package.

If you send your application via express mail, address it to **Ms. Dorothy Carr, U.S. Environmental Protection Agency, Human Resources Management Division (MD-29), 4201 Building, Suite 105, 79 Alexander Drive, Research Triangle Park, NC 27709, Attn: NERL/Human Health Exposure Post-Doctoral Program**. You may also submit your application via facsimile (fax) machine to (919) 541-2186; however, applications faxed from a U.S. government fax machine will not be accepted. Applications sent electronically via the Internet or mailed in U.S. government postage-paid envelopes will also **not** receive consideration. Application materials must be received in the Human Resources Office or postmarked by **April 6, 2001**. Questions may be directed to Ms. Carr at (800) 433-9633. After all responses are reviewed, candidates will receive written notice of the status of their applications no later than **June 12, 2001**.

For specific job information on the NERL post-doctoral program, you may access the National Exposure Research Laboratory's Internet site at <http://www.epa.gov/nerl>.

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Developmental Stem Cell Biology

As part of an overall enhancement of its basic biomedical science research programs and laboratory facilities, the Roberts Research Institute, located on the campus of The University of Western Ontario is undertaking a major program initiative in the area of Stem Cell Biology. We are seeking to recruit several positions that include:

Three Positions as Research Scientist/Assistant Professor:

To initiate their own independent programs in human and mouse ES cell biology, characterization of neural and muscle stem cells, stem cell lineage specification during development, somatic cell nuclear transfer, and microarray assessment of human gene and protein expression. Candidates should demonstrate the potential to establish a vigorous independent research program. Recruited faculty will receive generous start-up support, occupy custom fit laboratories, and will have access to newly developed core facilities that include genomics, proteomics, high speed flow cytometry, confocal microscopy, transgenic and ES cell suite and transplantation units.

Two Positions as Research Associates:

Seeking candidates with at least 3-4 years laboratory experience in the areas of developmental biology and related assays (whole mount, immuno-histochemistry, transgenic animals) or design and creation of in vivo models that include human-mouse xeno-transplantation and immune deficient mice. Salaries range between \$40,000 to \$50,000 plus benefits.

Two Training Positions as Postdoctoral Fellows:

Seeking exceptional candidates to work in related areas of human stem cell biology involving in vivo models for neural, muscle, and hematopoietic stem cells or characterization of mesodermal factors in hematopoietic and muscle stem cell biology. Applicants must hold a PhD or MD degree. Salaries up to \$ 40,000 + are available.

Applications should include curriculum vitae, statement of research interests, and names of at least three references. Applications should be sent by May 31, 2001 to:

Mickie Bhatia, PhD
Developmental Stem Cell Biology Group
The John P. Roberts Research Institute
P.O. Box 5015, 100 Perth Drive,
London, Ontario, Canada, N6A 5K8
Email: mbhatia@rri.on.ca

In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian Citizens and Permanent Residents of Canada.

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Pintex Pharmaceuticals is an early-stage, privately held life-science company focused on the discovery of new cancer diagnostic and therapeutic targets.

Bench Technicians

We are looking for highly motivated individuals with a strong background in biochemistry and cellular biology. Candidates should have extensive experience in mammalian cell culture, cell biological techniques, high throughput biochemical and cell-based assays and protein purification.

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BIOZENTRUM, University of Basel, Switzerland

Assistant Professor in Structural Biology

The Division of Structural Biology at the Biozentrum invites applications for a group leader position to establish an independent research program in structural biology using crystallographic methods.

The Biozentrum provides a collaborative research environment with an integrated program in structural biology including X-ray crystallography, various microscopies, and NMR facilities. Access to the Swiss Light Source will also be available. The position provides an attractive package including a full salary, assistant positions and a running budget. The successful applicant is expected to participate in the biology curriculum and post-graduate training.

Applicants should send a curriculum vitae, copies of selected relevant publications, brief descriptions of past and proposed research, and the names of 3 individuals from whom letters of recommendation can be obtained to: Prof. Tilman Schirmer, BIOZENTRUM, University of Basel, Klingelbergstr. 70, CH-4056 Basel, Switzerland, tilman.schirmer@unibas.ch, FAX +41(61)267 2109

The deadline for receipt of applications is February, 28, 2001.



Racheff Chair of Excellence in Plant Molecular Genetics Department of Ornamental Horticulture and Landscape Design The University of Tennessee Knoxville, Tennessee

The Department of Ornamental Horticulture and Landscape Design in the College of Agricultural Sciences and Natural Resources (CASNR) and the Tennessee Agricultural Experiment Station (TAES) seek outstanding applicants to fill a 12-month, tenure-track Professorship and Racheff Chair of Excellence in Plant Molecular Genetics. The Chair is expected to maintain an internationally recognized and extramurally funded research program and will be expected to participate in the graduate program at CASNR by advising doctoral students and teaching a doctoral-level course in plant genetics. The Chair's research laboratory will be located in a 120,000 sq. ft. plant biotechnology building currently under construction. The Chair will have opportunities to collaborate with other CASNR scientists, as well as scientists in the College of Arts and Sciences at the University of Tennessee and those at the Oak Ridge National Laboratory. A start-up package is available, as well as recurring funds for graduate students and postdoctoral research scientists.

Nominations should be sent to: Dr. C.A. Speer, Dean, CASNR/TAES, 2621 Morgan Circle, 126 Morgan Hall, The University of Tennessee, Knoxville, TN 37996-4500. Telephone 865/974-6756; Fax 865/974-9329; e-mail: caspeer@utk.edu. For additional information see <http://ohld.ag.utk.edu/htm/racheff.htm>

Applications consisting of a letter of application, professional mission statement including teaching and research philosophies, curriculum vitae, and names, addresses (postal and e-mail) and telephone numbers of five references should be sent to Dean Speer. The review of applications will begin on April 2, 2001, and continue until a suitable candidate has been identified.

UT is an EEO/AA/Title VI/Title IX/Section 504/ADA/ADEA institution in the provision of its education and employment programs and services. Women and minorities are encouraged to apply.

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Chemistry - Scientists/Senior Scientists/Group Leaders

We are seeking highly motivated, independent chemistry scientists and group leaders who have a track record of scientific accomplishment to provide chemistry leadership to our highly interdisciplinary scientific teams. Ideal candidates will have excellent communication skills, a Ph.D. in Organic Chemistry, and familiarity with Chemi-informatics, protein chemistry, x-ray crystallography, and molecular modeling. Experience in solution phase and solid phase synthesis is expected; experience in parallel synthesis and purification, is desirable. A strong analytic instrumentation (NMR, HPLC, MS) background is required for all positions; familiarity with computer-aided or structure-based design is desirable. Pharmaceutical industry supervisory experience is requisite for the Group Leader positions.

Research Assistants/Associates

Ideal candidates will have a B.S./M.S degree in Chemistry, appreciable synthetic skills, and the desire to work independently. Experience with and knowledge of modern analytical methods (NMR, LC, MS) is essential. A knowledge of biochemistry, chemical SAR, or pharmaceutical industry approaches desirable.

Director of Biology

Reporting to the VP of R&D, the Director will hire and lead a team (up to 20) of scientists that characterize and optimize the ADME properties of small molecule therapeutics, and demonstrate efficacy in suitable models. The Director will plan and prioritize departmental activities, manage external collaborations, introduce or develop technologies for assessment of drug candidates, possess good communication skills, and display the desire and the ability to work effectively in a highly interdisciplinary team-oriented environment. The individual should be motivated by a strong desire to successfully advance novel therapeutics into the clinical trial stage. Candidate will have a Ph.D. in a field of Biology, minimum of 5 years relevant experience, and a track record of proven success in leading small molecule, preclinical drug discovery activities. Supervisory experience is required, as is broad biological experience across therapeutic areas.

Visit our Web site (locusdiscovery.com) for more information about us and our exciting future, as well as a job description for the above opportunity. You may apply online at locus-employment@locusdiscovery.com or fax your resume to Locus Discovery Human Resources at 609-720-4855. EOE.

Group Leaders - Biology

Responsible for directing the activities of the scientific staff in the technical areas of Cell Biology, Pharmacology, ADME properties, and Efficacy. Will assist the Director of Biology plan and implement the short- and long-term objectives of the Biology Groups. Will develop technical and collaborative strategies to ensure achievement of scientific objectives. Monitors and evaluates completion of tasks and projects. Will assist with budget projections and adherence. Must have the desire and ability to work effectively in a highly interdisciplinary, team-oriented environment. These individuals should be motivated by a strong desire to successfully advance novel therapeutics into the clinical trial stage. Candidates will have a Ph.D. in field Biology, a minimum of 5 years supervisory experience, and a track record of proven success in advancing small molecule, preclinical drug discovery programs. Broad experience across therapeutic areas is an asset.

Director of Scientific Computation

This key individual will head a team that will be responsible for the maintenance and operation of a supercomputer cluster that accurately predicts protein binding sites and builds chemistry molecules at that site. Programming experience designing, implementing, and maintaining complex algorithms is required. This individual will also maintain and curate a proprietary cheminformatics and protein structure database that will be used to select and advance appropriate small molecule therapeutics-based protein specificity, and physicochemical and biological properties. Responsibilities include the design of proprietary software, implementation of commercially available packages, and development, object-oriented programming, GUI programming and design. Familiarity with Oracle databases, C, C++, Fortran, Java, JavaScript, PERL, and Win32-API are essential. Candidates should hold a Ph.D. in computational chemistry, physical chemistry, biochemistry, physics or the equivalent. Significant management experience is desirable.

Computational Chemists

We have immediate openings for Computational Chemists. Our Computational Chemists use proprietary de novo methods to design leads for protein targets. Successful candidates will have experience working on a multidisciplinary team of scientists. Candidates should hold a Ph.D. in computational chemistry, physical chemistry, chemistry, biochemistry, biophysics or the equivalent. A strong background in organic chemistry is preferred. Experience in applying typical modeling techniques to problems in structure-based design ranging from lead identification to optimization of compounds as preclinical candidates, is essential. Experience with de novo and ligand design methods, and strong communication skills are essential.

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The successful applicants for these posts will be expected to assume duties as soon as possible.

Detailed applications (three copies) giving full particulars of qualifications and experience, biodata and the names and addresses of three referees should be sent to the **Campus Registrar, University of the West Indies, PO Box 64, Bridgetown, Barbados. Telephone: +1 246 417-4067/8; Fax: +1 246 417-0330; E-mail: human_resources@uwichill.edu.bb.** To expedite the appointment procedure applicants are advised to ask their referees to send references under confidential cover directly to the Campus Registrar without waiting to be contacted by the University. Further particulars for these posts including remuneration package are available on request. Further particulars are also available on our website at www.uwichill.edu.bb. These particulars may also be obtained from Association of Commonwealth Universities (Advertising), 36 Gordon Square, London WC1H 0PF, UK (tel: 020 7380 6706; fax: 020 7383 0368; email: adverts@acu.ac.uk).



DEPARTMENT OF ARMY
SCIENTIFIC AND PROFESSIONAL
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NUMBER DA-ST-04-00

CLOSING DATE: 30 MARCH 2001

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Principal Research Scientist II (WLL10223)

This position requires a Ph.D. in Chemistry or a related discipline and a minimum of 12 years' post-graduate research experience with a successful research record in macromolecular chemistry. Knowledge of biology, molecular biology, virology, and immunology is desirable.

Senior Research Scientist I (WLL10221)

This position requires a Ph.D. in Chemistry or a related discipline with an emphasis on macromolecular synthesis, characterization, and purification and a minimum of 2 years' post-graduate research experience in academia or industry. Familiarity with gene delivery technology is highly desirable. Background knowledge in molecular biology, biochemistry, and immunology is helpful.

Research Scientist II (WLL10220)

This position requires a BS in Chemistry/Biochemistry with 10 years' experience in a related area of research, or an MS in Chemistry/Biochemistry with 8 years' experience in a related area of research. Analytical skills such as HPLC, FPLC, CE, UV, IR, NMR, and mass spectroscopy are essential. Previous experience with tissue culture and various gene delivery systems is highly desirable.

Vector Design

The research is focused on optimized target gene expression to elicit desired immune responses in humans.

Principal Scientist I (WLL10224)

This position requires a Ph.D. in Molecular Biology or a related discipline with a minimum of 8 years' post-graduate research experience. Strong knowledge and research experience in gene regulation, transcription/translation, and gene activation/gene silencing are essential.

Clinical Research

The research focuses on early clinical development of HIV vaccines as a member of a multidisciplinary team from Discovery and Clinical Research.

Associate Director (WLL879636)

We require either an MS with 12 years' experience or a Ph.D. (preferred) with 8 years' industry related expertise, 3 or more years of which should be in clinical research. Clinical and/or basic research background in HIV and/or other STDs is desired.

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SENIOR RESEARCH SCIENTIST MOLECULAR BIOLOGY

To qualify, you must have a proven track record in genetics of bacteria and/or lower eucaryotes. We expect a Ph.D in Molecular Biology with at least 2 years of postdoctoral experience. A strong background in molecular biology with the emphasis on gene expression and regulation is required. Experience in the use of array-based technologies, and real-time monitoring of gene expression is highly desirable. Please refer to the code 00051 in your application.

SENIOR RESEARCH SCIENTIST PROTEIN CHEMISTRY/ENZYMOLGY

To qualify, you must have a strong background in expression of recombinant proteins, protein purification and protein characterization. A proven record in enzymology and a deep understanding of the bacterial metabolism is a prerequisite as well. You will intensively interact with our world class proteomics group. We expect a Ph.D in biochemistry and at least 2 years of postdoctoral experience. Please refer to the code 00052 in your application.

FERMENTATION ENGINEER

To qualify, you must have extensive experience in developing industrial fermentation processes as well as research-oriented fermentation trials. Know-how in product recovery and isolation is a plus. We expect a Ph.D in fermentation engineering. Please refer to the code 00053 in your application.

Roche Vitamins is a growing division of a global company with facilities near Basel, conveniently located close to the border of France and Germany. We offer our employees an excellent salary and benefits package commensurate with qualifications.

For consideration, forward your resume indicating job code and salary requirements to: Roche Vitamins Inc., Human Resources Dept., 45 Waterview Blvd., Parsippany, NJ 07054-1298. Principals only. We appreciate your interest in Roche Vitamins Inc., but can only respond to qualified candidates. Roche Vitamins Inc. is an equal opportunity employer fully committed to diversity in the workplace.

PRESIDENT

The Texas A&M University System Health Science Center

The Texas A&M University System Health Science Center (College of Medicine, the Baylor College of Dentistry, the School of Rural Public Health, the Graduate School of Biomedical Sciences, and the Institute of Biosciences and Technology) invites applications and nominations for the position of President and chief executive officer for the Texas A&M University System Health Science Center and Vice Chancellor for Health Affairs. The President reports to the Chancellor.

Major qualifications include a successful record of academic achievement, experience with clinical institutions and administrative leadership in higher education, research and scholarship, and service. The successful candidate must demonstrate a commitment to excellence in health education, research, patient care, public health, and an appreciation for inclusiveness and the ability to develop and sustain partnerships with a variety of health programs, providers, programs, and agencies. Experience in public policy and budget advocacy is preferred. An appropriate terminal degree in one of the disciplines represented within the Center is required.

The Texas A&M University System affirms inclusiveness as essential to its missions, is an equal opportunity, affirmative action employer/educator, and encourages applications and nominations of women and minorities. The Search Committee will begin screening candidates as information is received. The position will remain open throughout the process. Further information is available at web site below. A complete application includes a current curriculum vitae, names and addresses of five references, and a cover letter listing previous accomplishments and philosophy regarding health education, research, and administration. Applications should be sent to: HSC Presidential Search, The Texas A&M University System, 301 Tarrow, 7th floor, College Station, TX 77840-7896, Phone: 979/458-6038; FAX: 979/862-2679. EMAIL: hscsearch@sagomail.tamu.edu. WEB SITE: <http://sago.tamu.edu/shro>.

Please be advised that under Texas law, the name or names of the finalists must be given public notice 21 days before final action on employment.

UCDAVIS



Postdoctoral Positions. An NIH-funded Training Grant in Fertilization and Early Development has two postdoctoral positions available immediately for a US citizen or permanent resident working with one of the 10 trainers at UC Davis. These laboratories are highly interactive and enjoy state-of-the-art instrumentation. The faculty and research areas include:

Gary Anderson (<http://animalscience.ucdavis.edu/faculty/Anderson/>)
In vitro development of mammalian embryos and stem cells

Trish Berger (<http://animalscience.ucdavis.edu/faculty/Berger/>)
Porcine sperm-oocyte membrane interactions

Gary Cherr (gncherr@ucdavis.edu)

Sperm activation by egg-derived molecules in fish and mammals

Jerry Hedrick (<http://www.mcb.ucdavis.edu/faculty/>)

The molecular structure and fertilization function of the egg extracellular matrix

Stanley Meizel (<http://cellbio.ucdavis.edu/dept/Meizel1999.html>)

Steroid-initiated acrosome reaction in human sperm and neurotransmitter receptor/Cl⁻ channels in mouse and human sperm acrosome reaction

Diana Myles (<http://www.mcb.ucdavis.edu/faculty-labs/myles/>)

Molecular mechanism of sperm-egg fusion

Stuart Meyers (<http://www.vetmed.ucdavis.edu/apc/People/Meyerlab/index.html>) **Mammalian sperm cell biology: Cell signaling and cryopreservation**

Richard Nuccitelli (<http://www.mcb.ucdavis.edu/faculty-labs/nuccitelli/index.htm>) **Mechanisms of frog egg activation**

Paul Primakoff (<http://cellbio.ucdavis.edu/dept/Primakoff1999.html>)

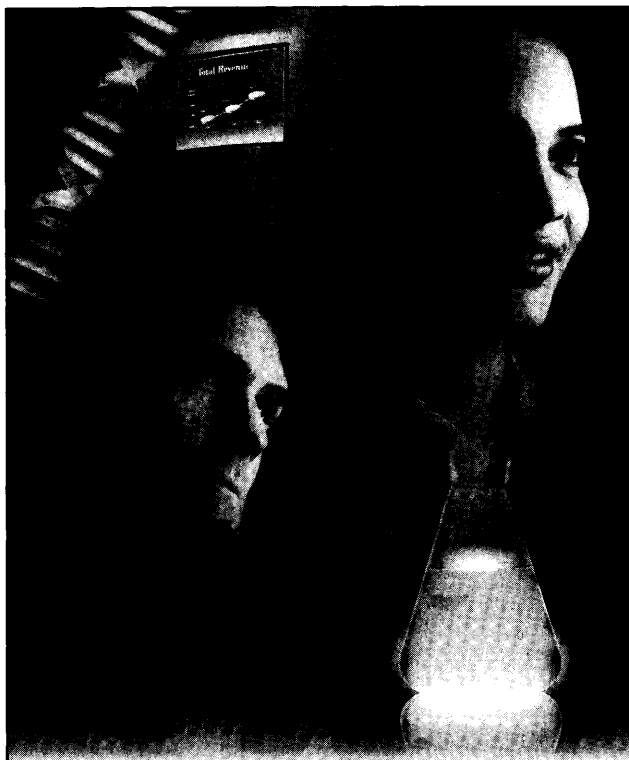
Molecular mechanisms of mammalian fertilization

Lesilee Rose (<http://www.mcb.ucdavis.edu/faculty/>)

Genetic analysis of cell division orientation in *C. elegans*

Contact individual faculty by Email, or send a CV, statement of professional goals, and the names and addresses of three references to: **Postdoctoral Search, Fertilization and Early Development Training Grant, Molecular and Cellular Biology, University of California, Davis, CA 95616-8535.**

The University of California is an Equal Opportunity employer and we encourage minority and female applicants.



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careers that matter

Research Scientist/Sr. Research Scientist Veterinary Medicine, Biological Discovery

As part of a Biologicals Production group in Veterinary Medicine, you will provide hands-on biochemistry expertise for the development and production of prototype recombinant subunit vaccines from bacterial and viral animal pathogens. In a state-of-the-art facility, your major responsibilities will include developing and implementing purification strategies for novel antigens in a project team environment. This position requires a PhD, 2 years related experience and knowledge of recombinant protein expression, purification and characterization from *E. coli* and one other system (such as mammalian, baculovirus, or other). A background in vaccines, animal health and immunology is considered an asset, as is a comprehensive knowledge of antigen identification and characterization, vaccine formulation and adjuvants. Req. # 14Dec0001291

Research Scientist/Sr. Research Scientist Veterinary Medicine, Biological Discovery

Under general supervision, you will have departmental responsibility for providing leadership, management and hands-on expertise in the areas of viral immunology and disease pathogenesis for viral projects. Additionally, you will develop and adapt new technologies for assay execution while keeping abreast of current literature and laboratory practices. You must have a PhD in Virology or Immunology or a relevant field and post-doctoral training in a related field, such as viral disease pathogenesis and host immune mechanisms. A DVM with post-graduate research on respiratory and enteric viral diseases, or experience in industrial veterinary vaccine research and proficiency in cellular immune assays, including cytokines and flow cytometry, would be an asset, but is not required. Req. # 14Dec0001290

Computational Chemist

Working with the Computational Chemistry Group, you will contribute to Pfizer's expanding efforts in combinatorial chemistry, high-throughput screening and the simultaneous optimization of multiple properties in lead optimization. This position requires a PhD or equivalent in Computational Chemistry or related field, a minimum of 3 years experience working in drug discovery, and the ability to work in multidisciplinary teams. Also required is demonstrated knowledge of QSAR, combinatorial library design, ADME models, Perl/SQL/Daylight toolkits, MDL or Tripos chemical databases and statistical modeling. Req. # 12Jan0101761

Research Associate – Antibacterials

As a member of our Drug Discovery, Antibacterial group, you will characterize the efficacy of novel antibacterial agents in laboratory rodent test systems. Responsibilities include conducting PK/PD experiments, summarizing data and updating the anti-infective database. You must have a BS/MS in Microbiology, Pharmacology or related field, and a demonstrated knowledge of bacterial diseases, microbial physiology, lab animal pharmacology and pharmacokinetics or toxicity. Experience with small animal surgical techniques is preferred, as is familiarity with animal tissue cultures. Excellent aseptic and microbe cultivation techniques are essential, and proficiency with Windows/NT PC and Microsoft Office Suite is desirable. This position requires flexibility in work hours and the ability to work well with a multidisciplinary team while remaining self-motivated. Req. # 00-0007707

Recently ranked among *Fortune's* 100 Best Companies to Work For, Pfizer offers an exceptional work environment complete with training opportunities designed to develop your professional talents. We encourage all applicants to apply by emailing your resume, indicating appropriate Req. # in the subject field, to SCI@pfizerresumes.com. If necessary, you may also mail your resume, indicating Req. #, to Pfizer Resume Processing Center, 630 Boston Road M-104, Billerica, MA 01821, Attn: Softshoe Resumes. An equal opportunity employer, Pfizer offers a workplace rich with diversity and potential.



Lecturers/Senior Lecturers in Integrative Animal Biology (2 Posts)

Ref: 059/01

Following the recent JIF award of £15m for a new building, we wish to continue our investment in excellence by further strengthening the field of Integrative Animal Biology with these new tenure track posts. We are committed to the development of post-genomic animal biology and seek to recruit pioneering individuals with strong comparative interests. The School offers opportunities for interaction with active research groupings in genomics, proteomics and bioinformatics, within one of the UK's strongest Bioscience environments.

Applicants should be working in integrative biology using any model organism (invertebrate/mammalian and non-mammalian vertebrate) but we would especially welcome those with established track records in:

- Ecological and evolutionary genomics.
 - Molecular ecology.
 - Environmental and adaptive physiology.
 - Developmental biology.
- and/or those who complement our existing strengths in:
- Biological clocks.
 - Evolutionary genetics.
 - Environmental physiology.
 - Reproductive, osmoregulatory and metabolic neuroendocrinology.
 - Behavioural neurobiology.
 - Molecular and comparative parasitology.

The successful candidates will be expected to establish independent, externally funded research programmes and also contribute to teaching at Undergraduate and Postgraduate level.

The Lecturer and Senior Lecturer salary ranges are currently £18,731 to £30,967 p.a. and £32,510 to £36,740 p.a. respectively.

Information on the School, and an application form, can be found on <http://www.biomed.man.ac.uk> or obtained from Office of the Director of Personnel, The University of Manchester, Oxford Road, Manchester M13 9PL. Tel: 0161 275 2028; Fax: 0161 275 2471; Minicom (for the hearing impaired): 0161 275 7889; E-mail: personnel@man.ac.uk

Informal enquiries may be made to the Search Committee via biosearch@man.ac.uk however all formal applications must be submitted to the Office of the Director of Personnel.

Closing date: 2 March 2001. Please quote reference number.



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

ECOSYSTEM RESTORATION PROGRAM MANAGER

The CALFED Bay-Delta Program in Sacramento, California seeks an individual with extensive experience in ecosystem restoration management to lead and manage the largest, most complex environmental restoration program in the United States.

The Program Manager will be required to:

- Direct a top quality program of scientifically based, locally supported restoration projects;
- Systematically evaluate program implementation, using both scientific data and readily understandable performance measures;
- Effectively communicate with agency staff, local interests, public officials, and scientists about the ecosystem restoration program;
- Work with the Chief Scientist, the Science Board, and other program managers to develop a program that is science-based, and flexible enough to embrace adaptive management;
- Oversee the implementation of over \$250 million in ongoing ecosystem restoration projects, and an annual budget of over \$150 million;
- Directly manage a 30-person staff, and oversee a large interagency and stakeholder network.

The Program is seeking an individual with scientific stature in ecosystem restoration or a related field such as restoration ecology, landscape processes, other ecological fields, or adaptive management. Working experience as both a scientist and a manager is preferred. The successful candidate will have proven capabilities for consensus building and working with a diverse array of agencies and interest groups. Application filing period: **January 16, 2001 through February 23, 2001** (application must be received by closing date). For application requirements go to http://calfed.ca.gov/eco_job.html or call (916) 657-2666.



CHILDREN'S & WOMEN'S HEALTH CENTRE OF BRITISH COLUMBIA

ENDOWED RESEARCH CHAIR IN PEDIATRIC GASTROENTEROLOGY

A newly created ENDOWED Chair offers the successful candidate an exciting opportunity to head, direct and develop the future intestinal and liver disease research program of an expanding group of investigators focusing on diseases of childhood. The successful candidate will direct, co-ordinate and expand the on-site research program and build on existing collaborative networks. The successful candidate should have internationally recognized expertise in the field of antigen-host interaction as pertains to intestinal inflammatory process, and have proven team building capabilities and strong leadership skills.

The position will link the division of pediatric gastroenterology at BC's Children's Hospital with the Centre for Infection and Immunity in Children on-site, the BioTech Laboratory at UBC and the Terry Fox Laboratory. This affords an excellent opportunity of linking bench to bedside research in the field of pediatric intestinal and liver inflammatory disorders.

Applicants must be eligible for academic appointment to the Department of Pediatrics, Faculty of Medicine, University of British Columbia. Salary and rank will be commensurate with qualifications and experience. This is a tenured position. The anticipated start date is **September 1, 2001**. Applications should be received by **April 1, 2001** and should include curriculum vitae, three references, a summary of research accomplishments and information on future research directions.

UBC hires on the basis of merit and is committed to employment equity. We encourage all qualified persons to apply. In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. International applications are welcomed. Send applications in confidence to:



Dr. David M. Israel
Head, Division of Gastroenterology
UBC and BC's Children's Hospital
4480 Oak Street
Vancouver, BC V6H 3V4
Email: disrael@cw.bc.ca
Fax: (604) 875-3244

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**Mount Sinai School of Medicine
POSTDOCTORAL & FACULTY POSITIONS
MOLECULAR NEUROSCIENCE**

Three funded positions are available in the Laboratory of Molecular Neuropsychiatry in the Department of Psychiatry. In the first position, we are seeking a researcher with expertise in genetics and positional cloning to follow-up on strong evidence of linkage in autism and to identify underlying genes. In addition, the research will use microarray data from Rett's syndrome cases to identify candidate genes for autism. This is an advanced postdoctoral or junior faculty level position. In the second position, the researcher will carry out RNA (microarray) and protein (proteomic) profiling studies of human neurological disease (Alzheimer's disease, schizophrenia, etc.) while taking advantage of the unique clinical samples at Mount Sinai Medical Center. This is also an advanced postdoctoral or junior faculty level position. In the third position, the researcher will study the Alzheimer's disease related protein, calenilin, its function and role in Alzheimer's disease. This is a junior or senior postdoctoral position. All candidates should have a strong command of English.

The Department has an exceptional clinical program and an outstanding corps of genetic, molecular and cell biologists working on the molecular basis of neuropsychiatric disorders.

Applicants should submit a curriculum vitae, a statement of research interests, and have three references forwarded to: **Dr. Joseph Buxbaum, Department of Psychiatry, Mount Sinai School of Medicine, One Gustave Levy Place, Box 1230, New York, NY 10029-6574.** E-mail submissions are strongly discouraged.

*We are an equal opportunity employer
fostering diversity in the workplace.*



**ANNOUNCEMENT OF
POSTDOCTORAL POSITION**

The Food and Drug Administration (FDA), National Center for Toxicological Research (NCTR) is accepting applications for a postdoctoral position as a FDA Research Staff Fellow in the Division of Chemistry. Salary range of \$43,326 - \$67,500 per year. Incumbent will be required to examine mechanisms of toxicity and DNA damage of dietary and environmental contaminants for risk assessment. A recent doctoral degree in chemistry or molecular biology and experience in one or more of the following is preferred: biochemical and analytical techniques to measure biological responses, biomarkers, and DNA damage *in vivo* and *in vitro*. FDA Staff Fellowships require U.S. citizenship or permanent residency and are initial two-year, excepted civil service appointments with benefits and with potential extension up to seven years, based on NCTR needs. FDA-NCTR is located in Jefferson, Arkansas (between Little Rock and Pine Bluff) and is a multi-disciplinary research center. Applicants should send a c.v. and the names of three references to **Dr. Robert Turesky, Division of Chemistry, NCTR, 3900 NCTR Road, Jefferson, AR 72079.** *FDA is an Equal Opportunity Employer and is a smoke-free environment.*

Our aim is to be the world's leading chemicals and health care group, with core competences in health care, agriculture, plastics and specialty chemicals.

In the structural research department of Central R&D, located in Leverkusen, Germany, an entry level job opportunity is available for a scientist in the field of

Biomolecule Analysis

You will be responsible for protein analysis including MS-techniques, for DNA-sequencing and for capillary electrophoresis. Collaborating with multidisciplinary project teams you will interact closely with life science research groups. You will have access to the expertise and the adequate state-of-the-art instrumentation of a well-established group of analytical scientists.

As a research scientist with a Ph. D. in chemistry or life science related fields you should have a background in protein chemistry and expertise in structural analysis of biomolecules. Effective communication skills in German and English and strength in interpersonal relations are required.

For further details please contact Dr. Wolfgang Kreiss (E-Mail: Wolfgang.Kreiss.WK@bayer-ag.de). If your background and personal experience fits this profile, please submit your complete application quoting ref.-Nr. 2609 to:

Bayer AG, Hochschulmarketing

Frau Fengler, E-Mail: anne-sophie.fengler.af@bayer-ag.de or

Frau Hoeller, E-Mail: ursula.hoeller.uh@bayer-ag.de

Hauptstrasse 119, D-51368 Leverkusen, Germany



www.hochschulmarketing.bayer.de

MEDICAL DIRECTOR Virology Lab • AFRICA

Medical Director of Vilab II, The New York Blood Center's
Chimpanzee Research and Retirement Facility in Liberia, West Africa

The Laboratory of Virology of the New York Blood Center is seeking a Medical Director (DVM) for its chimpanzee research and retirement facility (VILAB II) in Liberia, West Africa. This laboratory was established 26 years ago to humanely carry out research on human hepatitis viruses in the chimpanzee model. The laboratory has excellent spacious holding facilities and support laboratories and houses 74 chimpanzees of which about 20 are retired on islands in a nearby river. The laboratory is described and illustrated on the New York Blood Center website (www.nybloodcenter.org)

The laboratory is located on the 120 acre campus of the Liberian Institute for Biomedical Research (LIBR) near the Robertsfield International Airport 40 miles from Monrovia, Liberia.

The position involves: medical care of chimpanzees; supervision of a staff of 40; supervision of experimental protocols; interaction with the IACUC committee and the Director, LIBR; supervision of support laboratories in bacteriology, clinical chemistry, parasitology, hematology, histopathology, virology, and serology; supervision of GLP; and offers the opportunity for independent and collaborative research.

The position requires: a DVM with clinical experience with primates, preferably chimpanzees; clinical laboratory experience; knowledge of GLP procedures; experience in living in the developing world, preferably in Africa; managerial experience, and a strong interest in research.

Salary (\$60-90,000) will depend on experience, and is tax free. Housing and transportation are provided. The laboratory is close to excellent fishing and beaches, and close to interesting travel opportunities in the interior of Liberia and adjacent countries. Europe is 6 hours away by direct flights.

If interested, please send CV, a list of 3 or more referees, and letter outlining your career goals to Alfred M. Prince MD, The New York Blood Center, 310 East 67th Street, New York, N.Y. 10021, USA. Email: aprince@nybc.org, cc:amprince00@aol.com. Fax: (212) 570-3180. EOE M/F/D/V.

 **New York Blood Center**



Mayo Clinic Postdoctoral Position

A postdoctoral position is available to investigate mechanisms of transformation and cellular activation. A primary focus in the laboratory is the characterization of cellular events that are regulated by low molecular weight GTPases and their guanine nucleotide exchange factors using lymphocyte and tumor cell models. Experience in molecular biology, biochemical methodologies, and cell biology is desirable. Send curriculum vitae and the names of three references to:

Daniel D. Billadeau, Ph.D.
Division of Oncology Research
Mayo Graduate and Medical Schools
Mayo Clinic
200 First Street SW
1301 Guggenheim
Rochester, MN 55905
See also: <http://www.mayo.edu/research/>

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out of developing careers.



Purdue BioPharma L.P. is a research-oriented biopharmaceutical company which seeks to benefit patients by providing new treatments for cancer, infectious diseases, pain, and disorders of the central nervous and immune systems. As the Discovery Research arm of a growing and successful international Pharmaceutical organization, we are seeking a highly motivated professional to support our expansion in the **Princeton and Cranbury, New Jersey areas**. We currently have the following opportunity available in our Biosciences Dept.

Molecular Immunologist

Successful candidate should possess a Ph.D. in Molecular Biology or related field, a minimum of 5 years' pharmaceutical experience following completion of post-doctoral work, and a strong molecular biology/immunology background. Must have a proven track record supervising Ph.D./non-Ph.D. level scientists and cloning and manipulating DNA fragments encoding antibodies. Knowledge of antibody structure and functional importance of different domains/sequences is essential, along with strong MB skills, including DNA cloning, site-directed mutagenesis, PCR, cell culture and expression of recombinant proteins in mammalian cells. An understanding of oncology and/or infectious diseases a plus.

We offer competitive compensation and an attractive benefits package within a casual start-up work environment. As a growing company, we offer ample opportunities for personal advancement and professional growth. For immediate consideration, qualified applicants should mail resumes and salary requirements to: **Recruiter, Human Resources, 201 College Road East, Princeton, NJ 08540 or email to recruitemj@pharma.com**. Corporate standards require drug testing and background investigation. We are an equal opportunity employer committed to a diverse workplace.

For more information, visit us on our website at:
www.purduebiopharma.com.

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MAYO CLINIC TRANSPLANTATION BIOLOGY RESEARCH PROGRAM

The Transplantation Biology program at the Mayo Clinic is seeking faculty for "tenure-track" positions in the program. The ideal applicant will be excited about developing an independent, cutting-edge basic science research effort, and at the same time participating in a highly interactive, multidisciplinary program. The program will consist of scientists working in the areas of cellular, molecular, and structural biology, biochemistry and immunology as they apply to fundamental issues in transplantation biology. Members of the program will also have appointments in the Mayo Medical School and Mayo Graduate School.

For more information, visit the Mayo Clinic Research website: <http://www.mayo.edu/research/research.html> To inquire, please send a cover letter describing your research interests, a curriculum vitae and the names and addresses of three references to:

Jeffrey L. Platt, MD
Transplantation Biology Research Program
Mayo Clinic
Medical Sciences Building 2-66
Rochester, MN 55905

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Cellular Pharmacologists

working for the Cellular Pharmacology Group

The Institute is an affiliate of the Serono Group which has its Executive Headquarters in Geneva and is a leading multinational engaged in research, development and marketing of products in the biotechnology field. The Institute is a state-of-the-art centre of scientific excellence. Its research is directed towards the identification of novel molecular mechanisms underlying disease and the discovery of new drugs.

Applicants should have a Ph.D. in Cell Biology, Biochemistry, Pharmacology or equivalent experience. Previous work in the automated measurement of receptor signaling, enzymatic activity or cellular responses is essential. As part of the Cellular Pharmacology Group, the successful candidates are expected to direct technicians and participate in a wide variety of cellular pharmacology for targets in the nervous, immune and endocrine systems.

Informal enquiries concerning the position can be directed by e-mail to: anthony.nichols@serono.com

In addition to a challenging career in a high-technology and creative environment, Serono offers continued training and personal development along with an attractive remuneration and benefits package. If you are interested in the above position, please send your curriculum vitae with a list of publications and the name of three referees to the Human Resources Department of the Institute (quoting the advertisement source).

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www.serono.com



Genetic Basis of Behavior

Tenure Track Investigators

National Institute of Mental Health

Bethesda, MD



The National Institute of Mental Health Intramural Research Program invites applications for up to three tenure track investigator positions emphasizing the genetic basis of behavior. The successful candidates should have a strong research interest in the study of animal models of neuropsychiatric disorders. Experience in making and evaluating transgenic and knockout animals is desirable. Applicants must have an M.D. and/or Ph.D. with significant scientific achievement as an independent investigator. These positions include an attractive start-up package and operating budget in an exciting multidisciplinary research environment. Applicants should send a curriculum vitae, statement of research interests, and have three letters of recommendation sent before March 19, 2001 to:

Dr. Dennis S. Charney
Chair, Search Committee for Genes and Behavior Investigator
NIMH Building 10, Room 4N-222
9000 Rockville Pike
Bethesda, MD 20892-1381

The National Institutes of Health is an equal opportunity employer.

POSITIONS OPEN

ASSISTANT PROFESSOR ANIMAL DEVELOPMENTAL BIOLOGY

We are anticipating a tenure-track position in biological sciences in the fall 2001 pending approval of the search and state funding. Ph.D. in biology or related discipline required. Postdoctoral and teaching experience preferred. Must demonstrate (through publications and research plan) the potential to develop a high-quality, externally fundable research program in developmental biology utilizing experimental approaches on the cellular, molecular, and/or genetic levels. Model systems may be vertebrate or invertebrate. Must demonstrate (by academic record and letters of recommendation) the academic background to teach undergraduate and graduate courses in developmental biology and area of specialization. Teaching responsibilities will include instruction in large undergraduate courses. For more information about the Department, please visit our [website](http://www.uri.edu/arts/bio): <http://www.uri.edu/arts/bio>. Review of applications will begin immediately. Submit curriculum vitae; copies of up to three published papers; statements of research and teaching interests; and three letters of reference by March 2, 2001, to: **Dr. Marian Goldsmith, Search Committee Chair (Log Number SM021416), University of Rhode Island, P.O. Box G, Kingston, RI 02881.** *The University of Rhode Island is an Affirmative Action/Equal Employment Opportunity Employer and is committed to increasing the diversity of its faculty, staff, and students. Women, ethnic minorities, and individuals from underrepresented groups are encouraged to apply.*

CHEMISTRY AND CHEMICAL BIOLOGY Stevens Institute of Technology

The Department of Chemistry and Chemical Biology, Stevens Institute of Technology, Hoboken, New Jersey, is seeking to fill one or more **TENURE-TRACK POSITIONS** at open ranks. Our hiring priorities will be in the fields of (1) cell biology, molecular biology, or biochemistry; (2) analytical chemistry or instrumental analysis; and (3) synthetic organic chemistry. Successful candidate(s) will be expected to develop a strong research effort and to excel in teaching at both the undergraduate and graduate levels. Stevens is committed to building what we call an environment of technogenesis (namely, becoming a community that engenders innovative science and technology), so preference will be given to individuals whose research interests will lead naturally to collaboration with other faculty but who at the same time show evidence of being able to build a strong program of independent research. Please send curriculum vitae with a cover letter indicating the field for which you prefer to be considered. For full consideration, application materials should arrive on or before February 28, 2001. Snail mail submissions: **Faculty Recruiting, Department of Chemistry and Chemical Biology, Stevens Institute of Technology, Hoboken, NJ 07030.** E-mail: mmansfie@stevens-tech.edu with the subject Faculty Recruiting. *Stevens Institute of Technology is an Equal Employment Opportunity/Affirmative Action Employer.*

The University of Michigan, **CHAIR OF BIOLOGICAL CHEMISTRY.** The University of Michigan Medical School is seeking an academic leader to direct the research, teaching, and service programs of its Department of Biological Chemistry. Qualifications include a Ph.D. (or M.D.) degree in biological chemistry or a related field, international stature as a leading researcher in an area of biological chemistry, commitment to the highest standards of academic scholarship and teaching, and administrative ability. Please respond by March 15, 2001. Please send letters of interest, curriculum vitae, and names of at least three references to: **Paul F. Hollenberg, Ph.D., Chair, Biological Chemistry Search Committee, c/o Ms. Deborah Grifka, Administrative Associate, University of Michigan Medical School, M4130 Medical Science Building I, 1301 Catherine Street, Ann Arbor, MI 48109-0624.** *The University of Michigan is a nondiscriminatory Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT PROFESSORS University of Pennsylvania

The Department of Animal Biology at the University of Pennsylvania is soliciting applications for two tenure-track faculty positions at the Assistant Professor level. The Department has a strong commitment to basic biomedical research and is located at the heart of Penn's Philadelphia campus in an interactive scientific environment. Scientists with research interests in the areas of neurobiology, molecular pharmacology, toxicology, stem cell biology, or systems biology are encouraged to apply, but all outstanding candidates in the fields of cell biology, cancer biology, genetics, functional genomics, and reproductive biology will be considered. Applicants must have a Ph.D., M.D., V.M.D., or equivalent degree along with postdoctoral training and should be prepared to establish an independent, extramurally funded research program. Applicants can also expect to participate in teaching in the Department and in Universitywide graduate programs.

Interested candidates should submit curriculum vitae, a statement of research interests, and three letters of reference to: **Ms. Judy C. Bennett, Search Committee Coordinator, University of Pennsylvania School of Veterinary Medicine, 3800 Spruce Street, Philadelphia, PA 19104-6046.** FAX: 215-573-6810; e-mail: jbennett@vet.upenn.edu. Website: <http://www.vet.upenn.edu/AnimalBiology/>. Deadline for applications is February 28, 2001. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*

CHEMISTRY TWO-YEAR TEMPORARY (ORGANIC)

Grinnell College invites applications for a two-year position in organic chemistry at the **ASSISTANT PROFESSOR** level beginning August 2001. The appointee will be expected to teach primarily organic along with some introductory chemistry. A Ph.D. in organic chemistry or related field is required. In their applications, candidates should discuss their interests in teaching and research in an undergraduate, liberal arts environment that emphasizes close faculty-student interaction and values diversity. Laboratory facilities and instrumentation for teaching and research are excellent, and some local research support is available. To be assured of consideration, send curriculum vitae; undergraduate and graduate transcripts; a statement of teaching/research interests; and three letters of recommendation by March 1, 2001, to: **Lee R. Sharpe, Chair, Department of Chemistry, Grinnell College, Grinnell, IA 50112-1690.** Telephone: 641-269-3008 or 3047; FAX: 641-269-4285; website: www.grinnell.edu. *Grinnell College is an Equal Opportunity/Affirmative Action Employer committed to employing a highly qualified staff that reflects the diversity of the nation. No applicant shall be discriminated against on the basis of race, national or ethnic origin, age, gender, sexual orientation, marital status, religion, creed, or disability.*

MOLECULAR DEVELOPMENTAL BIOLOGIST

The Department of Biology of Case Western Reserve University invites applications for a **TENURE-TRACK POSITION** at either the junior or senior level. Applicants should have interest in addressing questions relating to the mechanisms of biological development using state-of-the-art molecular biology methodologies. Applicants should send current curriculum vitae and have three letters of recommendation sent directly to the Biology Department. Applicants should also submit a letter that describes their research and teaching interests. Applications should be received by March 1, 2001, to receive full consideration. Applications, nominations, and inquiries should be directed to: **Joseph F. Koonce, Chair, Department of Biology, Case Western Reserve University, Cleveland, OH 44106-7080.** Telephone: 216-368-3557; FAX: 216-368-4672; e-mail: jfk7@po.cwru.edu. *In employment as in education, CWRU is committed to Affirmative Action and Equal Opportunity. Applications from women and minority candidates are especially welcome.*

POSITIONS OPEN

The Psychology Department at Amherst College has a two-year **VISITING ASSISTANT PROFESSOR** position beginning July 1, 2001, in the area of physiological psychology/behavioral neuroscience. Responsibilities include teaching two courses per semester, directing senior research projects, and participating in the college's Neuroscience Program. The successful applicant will be expected to teach physiological psychology with laboratory (which will count as two courses), a biologically based introductory course (psychology as a natural science), and courses in specialty areas. Specialty areas of particular interest include psychopharmacology, hormones and behavior, and plasticity. Ph.D. is required and teaching experience is desirable. The Psychology Department has excellent classroom, office, and laboratory facilities; start-up funds will be available. Amherst College is a private, coeducational liberal arts college with approximately 1,600 students and 165 faculty. Located in the Connecticut River Valley of western Massachusetts, Amherst participates with Hampshire, Mount Holyoke, and Smith Colleges and with the University of Massachusetts in the Five-College Consortium. Candidates should submit curriculum vitae, sample preprints/reprints, and a statement of teaching and research interests and should arrange to have three letters of reference sent to **Chair of the Search Committee, Visiting Position in Physiological Psychology, Department of Psychology, Amherst College, Amherst, MA 01002.** For full consideration, submit materials by March 1, 2001. *Amherst College is an Equal Opportunity/Affirmative Action Employer and encourages women and minorities to apply. The administration, faculty, and student body are committed to attracting talented candidates from groups presently underrepresented on campus.*

ASSISTANT PROFESSOR, biochemistry: The Howard University Department of Biochemistry and Molecular Biology invites applications for a full-time, tenure-track position at the Assistant Professor level. We seek applicants with a strong background in the areas of proteomics and bioinformatics and mechanistic protein biochemistry. In addition to an earned Doctorate in the biological sciences, candidates should have postdoctoral experience in these areas and demonstrable promise for excellence in both research and teaching. The successful applicant will be expected to establish a strong, externally funded research program and to participate in the teaching of both health professional and graduate students. The appointment shall commence on or after July 1, 2001. Review shall begin on March 15, 2001, and continue until the position is filled. Interested individuals may apply by sending curriculum vitae, a statement of research plans, a description of teaching experience, and the names and contact data for four references to: **Chair, Search Committee, Department of Biochemistry and Molecular Biology, Howard University College of Medicine, 520 W Street, N.W., Washington, DC 20059.** FAX: 202-806-5784. *Howard University is an Equal Opportunity/Affirmative Action Employer.*

TENURE-TRACK FACULTY POSITION

Applications are invited for a faculty position in the Neuroscience/Drug Abuse Research Program at the **Julius L. Chambers Biomedical/Biotechnology Research Institute** at North Carolina Central University within the Research Triangle area of North Carolina. Generous set-up funds are available for the successful candidate to establish a research program in molecular, biochemical, or cellular neuroscience of drugs of abuse. Applicants must possess a Ph.D. and/or M.D. and at least three years of postdoctoral experience. Submit a letter describing research and professional goals, curriculum vitae, and three letters of reference to: **Dr. Allyn C. Howlett, Director, Neuroscience/Drug Abuse Research Program, J.L. Chambers Biomedical/Biotechnology Research Institute, NCCU, 700 George Street, Durham, NC 27707.**

North Carolina Central University is a constituent institution of the University of North Carolina System and an Equal Opportunity/Affirmative Action Employer. North Carolina Central University complies with the Immigration Reform and Control Act of 1986.



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To apply send a CV and covering letter to Dr Patrick Mileham, or call first for a confidential discussion. Please include details of your current remuneration and quote Ref: 01001S.



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Universität Hamburg

Three Endowed Professorships

at the Full Professor level (C4) and the Associate Professor level (C3) are to be filled in the newly founded

Interdisciplinary Bioinformatics Center of the University of Hamburg starting from October 1st, 2001

Responsibilities: Representing Bioinformatics in Research and Teaching. Research activities can be in any established area of Bioinformatics, e.g. analysis and interpretation of genetic information, formal representation of spatio-temporal structure data, structure/function relationships, theoretical methods for designing new drugs, analysis and interpretation of large arrays of analytical data, modelling and simulation of feed-back loops in living cells of organisms, prediction of 3D structures of biologically active molecules or aggregates like proteins, correlation of genetic sequences with drug sensitivity, or others. The candidates are expected to participate in the new interdisciplinary curriculum in bioinformatics (in co-operation with colleagues from disciplines of Biology, Biochemistry, Chemistry, Computer Science and Medicine) and to contribute regularly to stage I of the departmental study courses. Documented experience in interdisciplinary collaborations will be an asset.

Teaching Obligations: 8 hours per week during the semester

Background: Established track record in research and teaching; required background according to §15 Hamburgisches Hochschulgesetz is a "Habilitation" or equivalent evidence of professional proficiency. Fluent English required. The University of Hamburg expects a high standard in research and teaching. Therefore, the prospective candidates are requested to document their research/teaching record and teaching concept.

Among equally qualified and experienced candidates, handicapped persons will be preferentially considered.

Applications (including C.V., list of publications and teaching experience, summary of research focus, and concept for teaching bioinformatics) should be sent under code no. 1717/4 resp. 1718/3 to **The President of the University of Hamburg**, -332.11-, Moorweidenstr. 18, 20148 Hamburg, Germany until March 9th, 2001.

For further information please, see **under Homepage of Hamburg University:** "<http://www.uni-hamburg.de/Dienste/Ausschre/Professuren/professu.html>".

The University of Hamburg is an Equal Opportunity Employer.

TOR ZUR WELT DER WISSENSCHAFT



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

POSITIONS OPEN

FACULTY POSITION Research Center Portland Shriners Hospital

Applications are invited for a faculty position in the Research Center of the Portland Shriners Hospital. The Center is building a program within the broad area of vertebrate skeletal development and seeks an outstanding **SCIENTIST** who will establish an independent and innovative research program in this area. Applicants should have expertise and a strong record in developmental biology or a related field. Areas of interest may include morphogenesis and patterning, cell-matrix interactions, influence of matrix on development, signal transduction, and gene regulation. The skeletal development program complements existing center programs in matrix biology, structural biochemistry, cell and molecular biology, and developmental genetics. The Center occupies outstanding research facilities and provides generous start-up packages. The position will carry a full academic appointment in a basic science department at Oregon Health Sciences University with which the Center is closely affiliated. For more information, see [website: http://www.shcc.org/research](http://www.shcc.org/research).

Applicants should send curriculum vitae, publications, statement of research plans, and names of three references to: **W. A. Horton, Director, Research Center, Portland Shriners Hospital, 3101 S.W. Sam Jackson Park Road, Portland, OR 97201. FAX: 503-221-3451; e-mail: wah@shcc.org. Shriners Hospitals for Children is an Equal Opportunity Employer that maintains a drug-free workplace.**

TENURE-TRACK ASSISTANT PROFESSOR TOXICOGENOMICS

The Department of Environmental and Molecular Toxicology at North Carolina State University invites applications for an Assistant Professor position in the area of toxicogenomics. We solicit applications from individuals whose research interests include the use of genomic approaches to study one or more of the following: effects of environmental agents on gene regulation and function, susceptibility to environmental agents, and biomarkers of toxicant exposure and/or disease state. Applicants must have a Ph.D. and postdoctoral research experience. The successful candidate will develop and maintain a strong, independent, and extramurally funded research program and contribute to graduate student education/training. The Department will be moving into a new state-of-the-art facility in March 2001. Review of applications will begin on March 15, 2001. Applicants should submit curriculum vitae, statement of research goals and teaching philosophy, and names and addresses of three references to: **Robert C. Smart, Ph.D., Chair, Search Committee, Department of Environmental and Molecular Toxicology, North Carolina State University, Raleigh, NC 27695-7633. See website: www.cals.ncsu.edu/toxicology/index.htm for details. NC State is an Affirmative Action/Equal Opportunity Employer.**

VISITING ASSISTANT PROFESSOR OF BIOLOGY

Three-year renewable, nontenure-track position in biology at Centre College starting fall 2001. Responsibilities: introductory biology, sophomore-level evolutionary genetics, senior seminar, and an upper-level course in specialty. Participation in the nonscience majors natural sciences course sequence and a strong commitment to teaching undergraduates are required. Collaborative research is expected. Candidates should have completed Ph.D. requirements in a biological discipline with a focus on some aspects of evolutionary or ecological studies. Centre is a liberal arts college committed to excellent teaching. Send a letter of application, statement of teaching philosophy, current curriculum vitae, transcripts, and three letters of reference to: **Dr. John Ward, Dean, Centre College, 600 West Walnut Street, Danville, KY 40422. Review of applicants begins March 1, 2001. Equal Opportunity Employer. Women and minority candidates strongly urged to apply.**

POSITIONS OPEN

TENURE-TRACK FACULTY PHARMACOLOGY POSITION

The Department of Physiology of the Northeastern Ohio Universities College of Medicine (NEOUCOM) is seeking applicants to fill a tenure-track (**ASSISTANT/ASSOCIATE PROFESSOR**-level) position in cardiovascular or pulmonary pharmacology or physiology. The Department has a cardiopulmonary research focus and invites applicants who are using modern cellular and/or molecular biology techniques to address integrative physiological problems that complement ongoing research programs.

Conveniently located near Akron, Youngstown, Canton, and Cleveland, Ohio, NEOUCOM is a community-based state medical school offering a combined B.S./M.D. program with the University of Akron, Kent State University, and Youngstown State University. Further information about the Department and Institution can be obtained from the NEOUCOM website: <http://www.neoucom.edu>.

Candidates must have a Ph.D. and/or M.D. with appropriate postdoctoral fellowship training, a strong record of research accomplishment, and the ability to establish an independent, externally funded program. Excellent opportunities exist within the Department and Institution for collaboration. Medical student teaching responsibilities will be to participate in teaching the medical pharmacology course. Departmental faculty are members of the graduate faculty in programs leading to the Ph.D. through the School of Biomedical Sciences at Kent State University. The successful candidate will have the opportunity to develop graduate courses that relate to his/her specialty. To apply, candidates should send a letter of application describing research experience and goals accompanied by curriculum vitae and the names and addresses of three references to: **Human Resources, c/o Michael B. Maron, Ph.D., Professor and Chairperson, Department of Physiology, Northeastern Ohio Universities College of Medicine, P.O. Box 95, Rootstown, OH 44272-0095. Review of applications will commence March 9, 2001, and continue until the position is filled. NEOUCOM is an Affirmative Action/Equal Opportunity Employer.**

ASSISTANT PROFESSOR OF BIOLOGY

Randolph-Macon Woman's College, a selective liberal arts college with historic strengths in the sciences, invites applications for a tenure-track position at the level of **ASSISTANT PROFESSOR** beginning in August 2001. The position requires a Ph.D. in a biological science and a strong commitment to teaching. Teaching responsibilities include a core course in general botany, introductory biology, and advanced courses in molecular and/or evolutionary plant biology. Additionally, regular participation in Senior Seminar and supervision of undergraduate research are expected. Preference will be given to candidates with a broad general biology background and teaching experience. Application review will continue until position is filled. Send letter of application, including a statement of teaching and research interests; curriculum vitae; and names, mail and e-mail addresses, and telephone numbers of three references to: **Dr. Ronald D. Gettinger, Department of Biology, Randolph-Macon Woman's College, Lynchburg, VA 24503. Telephone: 804-947-8490; FAX: 804-947-8138; e-mail: regettinger@rmwc.edu.**

GENERAL BIOLOGY (Position Number 103470), Department of Biology, Middle Tennessee State University. **ASSISTANT/ASSOCIATE PROFESSOR** rank, tenure track. Doctorate required; starting August 2001. Primary teaching duties are in a one-semester, nonmajors course. Research/public service is expected and demonstrated excellence in teaching is required. Application review begins March 2, 2001. Send application referencing position number, proof of employment eligibility, copies of transcripts, and three letters of reference to: **Dr. Frank Bailey, Committee Chair, Box 60, MTSU, Murfreesboro, TN 37132. Inquiries to e-mail: fbbailey@mtsu.edu. Position contingent on funding.**

POSITIONS OPEN

HEAD, DEPARTMENT OF BIOENGINEERING

University of Illinois at Urbana-Champaign

The University of Illinois invites applications and nominations for the position of Head of the Department of Bioengineering. The Department of Bioengineering is now being established and will include both undergraduate (B.S.) and graduate (M.S., Ph.D.) educational and research programs in bioimaging, bioinformatics, bioMEMS, cell and tissue engineering, and related areas. The Department is planned to grow to 15 full-time faculty members. Fifty-eight faculty from our current Bioengineering program will join the Department as affiliate faculty. Its educational and research programs will be enriched by integration with related activities in several departments in the Colleges of Engineering, Medicine, and Liberal Arts and Sciences. It will participate actively in the campus-wide initiative in postgenomics biotechnology. The Head will hold the rank of **PROFESSOR** with tenure in the Department and will report directly to the Dean of Engineering. Candidates should have an earned Doctorate in a relevant field and be recognized as a distinguished researcher and scholar. Salary is negotiable. Applicants should submit a full résumé including a list of publications, a statement of interest and vision for the development of this Department, and the names and addresses of at least five references. A starting date on or after August 21, 2001, is desirable. To ensure full consideration, applications should be received by April 15, 2001. Send applications and nominations to:

**Professor Vernon L. Snoeyink, Chair
Bioengineering Head Search Committee
University of Illinois at Urbana-Champaign
3230 Newmark Civil Engineering Laboratory
205 North Mathews
Urbana, Illinois 61801
Telephone: 217-333-4700**

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

Tufts University Core Facility is seeking a **SENIOR RESEARCH TECHNICIAN/RESEARCH ASSOCIATE** for its newly established mass spectrometry service. The successful candidate will be responsible for overseeing the day-to-day operation of a new ThermoFinnigan Surveyor/LCO Deca ion-trap instrument. Duties include performing mass spectrometry analysis for both protein sequence identification and analysis of posttranslational modifications. The position requires a B.S./B.A. and more than one year of experience in the analysis of subpicomole levels of proteins by mass spectrometry. Experience with capillary HPLC is desirable. Salary commensurate with experience. Applicant should submit a résumé including three references to: **Michael Berne, Tufts University School of Medicine, Department of Physiology, 136 Harrison Avenue, Boston, MA 02111. Telephone: 617-636-2422; FAX: 617-636-6737; e-mail: Michael.berne@tufts.edu.**

The Department of Radiology at Evanston Northwestern Healthcare (ENH) seeks candidate for a **RESEARCH ASSOCIATE** position in physiological imaging laboratory. Ideal candidate will have a Ph.D. in biomedical engineering or related subjects, a strong background in signal/image processing and medical sciences, and prior experience in both human and small animal MRI research. Salary is set at \$36,000. Interested candidates should submit their curriculum vitae to: **P. V. Prasad, Ph.D., Department of Radiology, 2650 Ridge Avenue, Evanston, IL 60201. ENH is an Affirmative Action/Equal Opportunity Employer.**

Iowa State University is seeking a **MANAGER** for its new soybean molecular marker facility. Individuals with a publication record in molecular marker mapping are encouraged to apply. Additional information at [website: www.iastate.edu/hrs/jobs/4prof.htm#013015](http://www.iastate.edu/hrs/jobs/4prof.htm#013015). FAX: 515-294-3163; e-mail: phindera@iastate.edu. ISU is an Equal Opportunity/Affirmative Action Employer.

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Applied Molecular Evolution (AME) is a rapidly growing public company and a leader in the application of directed evolution to the development of biotherapeutics.

AME seeks scientists who can work independently while applying problem solving skills to achieve critical project goals. AME provides a high level of responsibility in a dynamic working environment with the opportunity to develop and implement leading-edge protein engineering technologies. Additionally, AME scientists receive excellent benefits and compensation, including equity participation and generous performance-linked incentives.

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- Protein engineering
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Automation Specialist



Send cover letter and resume to:

HR Department

Applied Molecular Evolution, Inc.

3520 Dunhill Street, San Diego, CA 92121

careers@AMEvolution.com

www.AMEvolution.com

National Institutes of Health

Postdoctoral Fellowship

Postdoctoral fellowship positions available at the National Institute of Diabetes and Digestive and Kidney Diseases, NIH, Bethesda, MD starting July 1, 2001 to join a laboratory studying progenitor/stem cells and development of beta cells of human islets of Langerhans. Experience in cell and developmental biology and familiarity with molecular biological techniques required. Projects involve isolation of progenitor/stem cells using fluorescence activated cell sorting and analysis of gene expression using microarrays. Please send curriculum vitae and list of publications and three references to:

Dr. Marvin C. Gershengron
Office of the Director

Division of Intramural Research
National Institute of Diabetes and
Digestive and Kidney Diseases, NIH
Building 10, Room 9N222
9000 Rockville Pike
Bethesda, MD 20892-1818
E-mail: mcgersh@med.cornell.edu

NIH is an Equal Opportunity Employer

National Center for Research Resources (NCRR) - National Institutes of Health



NCRR: Catalyst for Discovery

Associate Director for Clinical Research

The National Center for Research Resources (NCRR) invites applications for the position of Associate Director for Clinical Research (ADCR), NCRR, NIH. One of the four NCRR research areas, the Clinical Research area establishes and supports specialized multi-disciplinary laboratories and shared resources for clinical research; supports specially adapted and professionally staffed clinical research environments; and supports clinical research training and career development of physicians and dentists to become independent clinical investigators. The ADCR serves as a member of the senior leadership of the Center and is responsible for planning, formulation, program review, development, and evaluation of all programs encompassed by the Clinical Research (CR) area, and in the overall administration of the CR area, and will have supervisory authority over administrative and scientific staff. Direction of the CR area includes three complementary sets of programs: 1) a national network of about 75-80 General Clinical Research Centers; 2) a portfolio of regional and national research resources to foster clinical research; and 3) a portfolio of programs for enhancing the interests of medical students in clinical research; career development of young promising physicians; and providing protected time for established clinical investigators. Qualified applicants must possess an M.D. or equivalent combination of experience and training. Candidates must be established scientists with considerable experience in clinical research; be nationally recognized for scientific achievements by the scientific community and considered an authority in his/her scientific field.

To view the full text vacancy announcement and requirements, applicants are strongly encouraged to access the NIH automated vacancy retrieval system at <http://careerhere.nih.gov> and view vacancies within the National Center for Research Resources. Total salary is competitive and will be commensurate with experience of the selectee. Send applications to National Institutes of Health, National Center for Research Resources (NCRR), 31 Center Drive, MSC 2131, Bethesda, MD 20892. For additional information contact the NCRR Personnel Office on (301) 496-1524. Deadline for applications is 3/18/01. Public Health Service Commissioned Officers interested in performing the duties of the position within the Commissioned Corps may submit a resume to the above address.

NIH is an Equal Opportunity Employer

POSITIONS OPEN

RESEARCH BIOLOGIST UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

The U.S. Environmental Protection Agency's National Health and Environmental Effects Research Laboratory in Research Triangle Park, North Carolina, is seeking qualified applicants for the position of Research Biologist, GS-0401-12/13 (Announcement Number AR0585). This position is located in the National Health and Environmental Effects Research Laboratory, Environmental Carcinogenesis Division, Genetic and Cellular Toxicology Branch (website: <http://www.epa.gov/nheerl/ecd/>). The incumbent serves as a Principal Investigator responsible for developing a research program that provides a better understanding of the molecular mechanisms underlying the formation of cancers in response to environmental chemicals, develops molecular markers of cancer for use in cancer risk assessment models, and conducts collaborative research that addresses Agency needs in the area of molecular carcinogenesis and cancer risk assessments.

This is a full-time, permanent position. U.S. citizenship is required and candidates must meet U.S. Office of Personnel Management qualification requirements including specific educational course work. Candidates should have the required education and/or experience as described in Announcement Number AR0585. Salary ranges from \$51,927 to \$80,279 and is commensurate with qualifications. The selected candidate will be eligible for a full benefits package, including health insurance, life insurance, retirement, vacation, and sick leave. Relocation expenses are authorized for this position.

How to apply: All applicants must apply through the U.S. Office of Personnel Management (OPM) by calling the OPM automated job line, Telephone: 919-790-2822; or accessing OPM via Internet at website: <http://www.usajobs.opm.gov> and requesting an OPM package for the Research Biologist, GS-0401-12/13 (Announcement Number AR0585). Application materials must be submitted to OPM by March 16, 2001. The U.S. EPA is an Equal Opportunity Employer.

TENURE-TRACK FACULTY POSITION MEDICAL PHYSICS AND APPLIED RADIATION SCIENCES McMaster University

The ideal candidate will be able to teach the fundamentals of radiation physics, particularly radiation transport and radiation dosimetry, at the graduate level. She/he will contribute to undergraduate and graduate programs in Medical Physics and Health and Radiation Physics.

The successful candidate will maintain her/his independent research program including attracting research funding and mentoring research students. More information on our current research and on the eligibility criteria for this position can be found at website: www.physics.mcmaster.ca/radphysad.html.

Alternatively, contact: David R. Chettle (to whom applications should be submitted by 31 March 2001), Medical Physics and Applied Radiation Sciences, NRB-122, McMaster University, Hamilton, Ontario L8S 4K1 Canada. E-mail: chettle@mcmaster.ca.

McMaster University is committed to Employment Equity and encourages applications from all qualified candidates including aboriginal peoples, persons with disabilities, members of visible minorities, and women.

BIOLOGICAL OCEANOGRAPHER (Tenure Track)

The U.S. Naval Academy, Annapolis, Maryland, is now accepting applications for an entry-level ASSISTANT PROFESSOR tenure-track faculty position that would start in January 2002. We are seeking a Biological Oceanographer specializing in environmental analyses with modeling applications. A Ph.D. is required. For more information on the position, see website: www.usna.edu/JobInfo/. Application deadline is May 9, 2001. The U.S. Naval Academy is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are actively encouraged to apply.

POSITIONS OPEN

DERMATOLOGY BRANCH CHIEF DIVISION OF CLINICAL SCIENCES National Cancer Institute National Institutes of Health

The Division of Clinical Sciences, National Cancer Institute, NIH, is seeking applicants for the position of Chief, Dermatology Branch. The selectee for this position will oversee the research, clinical service, training, and administrative programs of the branch and will have resources to conduct an independent research program. The broad research interests in the branch include fundamental and clinical research in neoplastic, inflammatory, and infectious skin diseases as well as normal skin function.

Candidates for this position should have an M.D. and be Board-certified (preferred) or Board-eligible in dermatology and have a research focus in the area of cutaneous biology. The total annual compensation will be commensurate with experience, accomplishments, and education.

Interested candidates should send a cover letter, brief outline of research area, and curriculum vitae to: Dr. Douglas Lowy, c/o Jennifer Kirk, Division of Clinical Sciences, National Cancer Institute, National Institutes of Health, 31A Center Drive, MSC 2440, Room 3A11, Bethesda, MD 20892. If you have any questions, please contact: Ronald Thayer; Telephone: 301-435-4003; e-mail: thayer@nih.gov. Application receipt deadline: March 16, 2001. National Institutes of Health/National Cancer Institute is an Equal Opportunity Employer.

TWO TENURE-TRACK FACULTY POSITIONS Colorado State University

As part of a major campus initiative in the life sciences, the Department of Biology invites applications for the positions defined below. For each, the likely appointment will be at the ASSISTANT PROFESSOR level, but outstanding senior candidates will be considered.

Developmental genomics: Areas of particular interest include but are not limited to developmental genetics and genomics, comparative functional genomics, regulation of programmed gene expression, pattern formation, genomics of cell-cell signaling, growth factors, and/or neural development.

Theoretical evolutionary biology: Areas of particular interest include but are not limited to models of molecular evolution, cladistic theory, coevolutionary theory, statistical genetics, population structure, and speciation theory.

All positions require the Ph.D. and relevant postdoctoral experience. Successful candidates will be expected to develop externally funded research programs, to participate in undergraduate and graduate education, and to contribute to interdisciplinary programs on campus.

To receive full consideration, send teaching and research interests, curriculum vitae, letters from at least three references (sent separately), and up to three publications to: (appropriate) Search Committee, Department of Biology, Colorado State University, Fort Collins, CO 80523 by 1 March 2001.

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

MICROBIAL FUNCTIONAL GENOMICS BIOCHEMISTRY, GENETICS

POSTDOCTORAL POSITIONS available to study the physiology of *Geobacter* species, the predominant dissimilatory metal-reducing microorganisms in subsurface environments. These studies will take advantage of the availability of the complete genome sequence of *G. sulfurreducens*, the recently developed genetic system for this organism and ongoing proteomic and DNA array analyses. Experience in biochemistry of microbial genetics required. Please e-mail curriculum vitae and names of references to: Dr. Derek Lovley, Department of Microbiology, University of Massachusetts, Amherst, MA. E-mail: dlovley@microbio.umass.edu. UMASS is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

EVOLUTIONARY MICROBIOLOGIST/GENETICIST, molecular systematics and bacterial population genetics. The U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), National Center for Agricultural Utilization Research (NCAUR), Peoria, Illinois, is seeking a permanent full-time Geneticist/Microbiologist, GS-12 (salary range \$50,139 to \$65,179 per annum plus a comprehensive benefits package), for the Microbial Properties research unit. The successful candidate is expected to develop a vigorous research program utilizing molecular genetic data to understand population structure and evolutionary relationships in *Bacillus* as well as other agriculturally important bacteria. The incumbent will be responsible for all aspects of the research and will join an established group of researchers focusing on molecular systematics/population genetics of agriculturally important bacteria and fungi. The incumbent will also be involved in the maintenance and enhancement of the ARS Culture Collection (NRRL), an internationally recognized collection of microbial germplasm. Applicants must have a Ph.D. or equivalent, significant training and research experience in molecular systematics and/or population genetics, and a strong interest in the genetics and systematics of foodborne and other agriculturally important bacteria. Excellent research facilities are available including four automated DNA sequencers. U.S. citizenship is required. For full text of the vacancy announcement, which includes application information, call Kathy John; Telephone: 309-681-6478 or visit the ARS vacancy website: www.ars.usda.gov/afm/hrd/resjobs, Announcement Number ARS-X1W-1127. For information on the research program and/or position, contact: Dr. Cletus Kurtzman; Telephone: 309-681-6561. Applications in response to this ad must be marked ARS-X1W-1127 and postmarked by March 15, 2001. USDA/ARS is an Equal Opportunity Provider and Employer.

INSTRUCTOR AND POSTDOCTORAL POSITIONS Oregon Health Sciences University

Two research positions are newly available to study the molecular basis of renal NaCl transport and the molecular basis of human hypertensive disease in an NIH-funded program. Focus will be on mechanisms by which mutations on these proteins cause Gitelman's and Bartter's syndromes and on normal and abnormal processing of these proteins (*Nature Genetics* 12:24, 1996; *Am J. Physiol.* 277:F643, 1999). An Instructor position will conduct and supervise experiments into the structure and function of ion transport proteins in the kidney. The successful candidate will have a Ph.D. in biochemistry or a related discipline and several years of experience with studies of membrane protein biogenesis or regulation. The Postdoctoral position will conduct experiments into molecular chaperones and their role in biogenesis of membrane transport proteins. The successful candidate will have a Ph.D. in biochemistry or a related discipline. Send résumé and three letters of reference to: David H. Ellison, M.D., Division of Nephrology, Suite 262, Oregon Health Sciences University, 3314 S.W. U.S. Veterans Hospital Road, Portland, OR 97201. FAX: 503-494-5330; e-mail: ellisond@ohsu.edu.

PLANT MOLECULAR BIOLOGIST (Position Number 103460), Department of Biology, Middle Tennessee State University. ASSISTANT/ASSOCIATE PROFESSOR rank, tenure track. Doctorate required; starting August 2001. Teach introductory biology and develop plant biotechnology course. Research/public service/collaboration with biotechnology group expected. Broad botany background and research interest in plant molecular biology with agricultural application preferred. Applicant review begins March 2, 2001. Send application referencing position number, proof of employment eligibility, copies of transcripts, and three letters of reference to: Dr. Becky Seipelt, Committee Chair, Box 60, MTSU, Murfreesboro, TN 37132. E-mail: rseipelt@mtsu.edu. Position contingent on funding.



Mayo Clinic
Post-Doctoral Fellowship in Protein
Traffic and Cytoskeletal Biology

A post-doctoral research position is available to study the role of the large GTPase dynamin in membrane/protein traffic and cytoskeletal organization. Qualified individuals should have a Ph.D. in a relevant field of study.

For information on specific projects, the laboratory of the sponsor, and how to apply online, go to: http://www.mayo.edu/mcniven_lab/. For applying by mail, send resumes to:

Mark A. McNiven, Ph.D.
Mayo Clinic
Dept of Biochemistry & Molecular
Biology
200 First Street SW
Guggenheim Building 1721
Rochester, MN 55905
See also: <http://www.mayo.edu/research/>

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



MAYO CLINIC
DIVISION OF ENDOCRINOLOGY

An NIH supported postdoctoral position is available to study proteomic aspects of research program using mass spectrometry methods. Research interest is in the regulation of protein synthesis and degradation in healthy and diseased states, particularly in diabetes and the mechanisms of muscle wasting in aging, muscular dystrophies and myopathies.

Candidate should have a Ph.D. in Biochemistry or Chemistry with experience using mass spectrometry methods and have a good understanding of protein chemistry. Applications, including curriculum vitae and names of three references, should be sent to:

Sree Nair, M.D., Ph.D.
David H. Murdock - Dole Food
Company Professor of Nutrition
Science
Division of Endocrinology
Joseph 5 - 194
Mayo Clinic
200 First Street SW
Rochester, MN 55905

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

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SCHERING

*"We want
you and
your
commitment"*

Computational Chemist
for our Computer-aided Molecular Design

Your job:

You will be applying modern techniques of automated docking (virtual screening), designing combinatorial compound libraries in silico, and laborating statistical models to elucidate quantitative structure-activity relationships. You will be part of a team of colleagues working in the field of computer-aided molecular modelling. Your results will significantly contribute to the progress of interdisciplinary project teams working on focused lead structure identification and optimisation. The teams will benefit from your knowledge in the field of structural biology. Your advanced knowledge of chemistry enables you to propose and explain suitable chemical modifications. You have experience in utilising state-of-the-art molecular modelling software systems and are familiar with the handling and evaluation of databases.

Your qualification:

is a Ph.D. in chemistry, pharmacy, or biochemistry. You have broad practical experience in the application of modern molecular modelling techniques. Additionally, you have an excellent knowledge of organic chemistry. You naturally think in terms of analytical relations, and enjoy working with interdisciplinary teams to provide solutions to complex problems. Your additional abilities include good IT skills and excellent English skills. Your outstanding characteristics are good interpersonal skills, a dedication to providing outstanding input, clarity in presentation and a rigorous commitment to the success of the team.

We offer you:

an interesting and technically demanding job which gives you the opportunity to implement your own ideas in a multidisciplinary team. We also offer excellent framework conditions for further training measures, and all benefits that a modern, global company has to offer.

We are a research-oriented pharmaceutical company. Our objective is to make a lasting contribution to the progress of medical science and to improve the quality of human life via the medium of innovative ideas. We are engaged in the development of highly advanced medical specialities: contrast media, hormone preparations and therapeutic drugs for the treatment of severe illnesses. More than 22.500 employees world-wide are engaged in the pursuit of these objectives. Health care is our primary objective which we approach with due responsibility to man and the environment for the establishment of a future worth living.

Please send your application, including details of the salary you would expect to receive to:

Schering AG, Personnel Department FMV (Personalabteilung FMV), D-13342 Berlin
For all initial questions, please contact Dr Heinrich on +49-30-46 8-1 15 21
Please also visit our web site for details of further positions: <http://www.schering.de>

Schering: Ideas in action!

POSITIONS OPEN

CAMPUS VETERINARIAN OFFICE OF THE VICE CHANCELLOR RESEARCH AND GRADUATE AFFAIRS University of California, Riverside

Position number 01-01-018S. Salary range: \$5,317 to \$7,442. Final filing date: open until filled.

Provide veterinary care to laboratory animals and oversee the veterinary aspects of the animal care program of the University of California, Riverside (UCR). Administer the Office of the Campus Veterinarian and supervise the weekend backup Animal Technician and an administrative assistant. Provide guidance, training, and instruction to Investigators and Animal Technicians on the proper care and use of laboratory animals. Serve as a member of the Institutional Animal Care and Use Committee. Establish a program of veterinary care in accordance with APHIS regulations. Provide emergency care when necessary.

Requires D.V.M. or equivalent degree from an accredited school of veterinary medicine; Board-certified or Board-eligible status under ACLAM. Effective communication skills, demonstrated knowledge of a wide variety of different animal model systems for research and teaching, ability to work cooperatively with laboratory and field Scientists and with technical staff in providing quality veterinary care and compliance, strong oral and written communication skills. Ability to work effectively with a broad range of constituents including University faculty and staff. Hired applicant must successfully pass a background check through the U.S. Department of Justice. Previous experience in an academic teaching and research setting.

This is a career position with benefits. A complete list of requirements is available from the Human Resources Office at [website: humanresources.ucr.edu/jobs](http://www.humanresources.ucr.edu/jobs). Please send your résumé or apply to: **University of California, Human Resources/Employment, Position Code 01-01-018S, 116 University Avenue, Riverside, CA 92521. E-mail: jobs@hr.ucr.edu. Equal Opportunity Employer.**

ADMINISTRATIVE CURATOR

One of North America's largest herbaria seeks Administrative Curator to participate in management of herbarium. Reporting to the Director of the Herbarium, candidate will oversee use of collections by scientific researchers; participate in staff supervision, specimen curation, and outreach to the scientific community and general public; prepare grant proposals; and manage funded herbarium projects and present them at scientific meetings. Must possess Ph.D. in some aspect of plant or fungal taxonomy. Herbarium management experience required. Competitive salary with excellent benefits, including four weeks of vacation. Send curriculum vitae and cover letter indicating salary requirements to:

**Recruiter - AC
The New York Botanical Garden
200th Street and Kazimiroff Boulevard
Bronx, NY 10458-5126
FAX: 718-220-6504
E-mail: jchoy-hughes@nybg.org**

Affirmative Action/Equal Opportunity Employer; Minority/Women/Veteran/Disabled.

ALTANA INC. LEAD MICROBIOLOGIST Pharmaceutical QC

Altana Inc., a growth-oriented national pharmaceutical company, is seeking dynamic individuals to work at the forefront of the generic and branded drug industry.

B.S. plus industrial microbiology experience required. Knowledge of USP microbiological methods: antibiotic assays, preservative challenge, air sampling, sterility, and LAL testing. Requires strong leadership, organizational, writing, and communication skills. Proficiency in MicroSoft, Excel, and Word a plus.

We offer an excellent salary and a company-paid benefit package along with the opportunity to join a winning team working in a pleasant and productive environment. FAX résumé to: 631-756-5119; e-mail: kkuskowski@altanainc.com; mail: micro, P.O. Box 2006, Melville, NY 11747.

POSITIONS OPEN

RESEARCH SCIENTIST "Pharmaceuticals on the body's own terms"

Ferring is an international pharmaceutical company specializing in products for the treatment of hormone-related disorders ([website: www.ferring.com](http://www.ferring.com)). Ferring is continuing to discover and develop new drugs and is dedicated to an innovative workplace. The Biology Department at the San Diego Division of Ferring has an immediate opening for a self-motivated Scientist in the lead discovery group with expertise in screening assays.

The successful candidate will be responsible for the development and execution of high-throughput screening assays primarily for G protein-coupled receptor targets. Managing a database of screening results and development and implementation of innovative screening assay technologies are also key tasks for this position.

Requirements: Ph.D. in biochemistry, molecular pharmacology, or a related biological science. Proven experience in assay design and troubleshooting with an emphasis on receptor binding is essential. Homogeneous fluorescence-based assay expertise would be an advantage. At least two years of industry experience are preferred.

Ferring Research Institute Inc. offers competitive compensation and benefits packages. Qualified applicants are encouraged to apply in writing. Send or FAX a cover letter, résumé, salary history, and the names of three references to: **Ferring Research Institute Inc., 3550 General Atomics Court, 2-422, San Diego, CA 92121. FAX: 858-455-3190; e-mail: jobs@feringr.com. Closing date: March 15, 2001.**

PRECLINICAL FACULTY

Lake Erie College of Osteopathic Medicine (LECOM) invites applications to fill full-time, **DOCTORAL-LEVEL PRECLINICAL BASIC SCIENCE POSITIONS** in anatomy, microbiology, and biochemistry for the 2001-2002 academic year. Opportunities for teaching are available as LECOM expands both its on-site facilities and its osteopathic medical educational programs to include lecture/discussion, problem-based, and independent studies learning pathways. The successful candidate will possess a strong desire to teach and the ability to use innovative 21st century teaching techniques. Rank will be based on qualifications and prior medical school teaching experience; salary and benefits are competitive. Applicants should forward curriculum vitae; a summary of career objectives, teaching interests, and philosophy; current and future research plans; and at least three professional letters of recommendation to: **Silvia M. Ferretti, D.O., Provost and Vice President of Academic Affairs, Lake Erie College of Osteopathic Medicine, 1858 West Grandview Boulevard, Erie, PA 16509**. Applications will be screened immediately and will continue to be accepted until all positions are filled. *LECOM is an Affirmative Action/Equal Opportunity Employer and encourages female and minority candidates.*

RESEARCH ASSOCIATE AND POSTDOCTORAL FELLOW POSITIONS

Several Research Associate and Postdoctoral Fellow positions are available to investigate the functional genomic process determining aging and age-dependent diseases. Opportunities are available to work in microarray gene screening, DNA chip technology, stem cell research, and genetics of animal models as well as well-characterized human centenarian cohorts. Opportunities are also available to investigate translational control of age-dependent cardiac disorders mechanisms involved in replicative senescence as well as molecular mechanisms involved in space flight. These positions are supported by funding from NIH, DARPA, and NASA. Expertise in molecular and cell biology is required. Please send your curriculum vitae and names of three references to: **Dr. Eugenia Wang, 570 South Preston Street, Department of Biochemistry and Molecular Biology, School of Medicine, University of Louisville, Louisville, KY 40202. E-mail: eugenia.wang@louisville.edu.**

POSITIONS OPEN

MOLECULAR IMMUNOLOGY ASSISTANT/ASSOCIATE/ FULL PROFESSOR

The Molecular Immunology Section of the Department of Pediatrics at the Children's Hospital Medical Center/University of Cincinnati College of Medicine is expanding. It is expected that at least three additional tenured or tenure-track positions will be filled over the next five years. Both Ph.D.s and M.D.s (or equivalents) are encouraged to apply. Applicants at all levels will be considered. Major interests include myeloid cell biology, cytokine regulation, and molecular aspects of the interface between innate and acquired immunity, but high-quality research into any aspect of human and/or murine immunology will be the prime consideration. Applicants must have an accomplished record of innovative laboratory research and the clear ability to establish a strong, funded, independent research program. Collaboration across divisional, organ system, disease process, and methodological divides is expected in order to take advantage of the rich, multidisciplinary research environment at Children's. Please provide curriculum vitae, a description of research interests, and the names and addresses of three references to:

**Dr. Christopher Karp
Molecular Immunology Section
Children's Hospital Research Foundation
TCHRF 1566, 3333 Burnet Avenue
Cincinnati, OH 45229-3039
E-mail: chris.karp@chmc.org**

Children's Hospital Medical Center is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.

Northwest Missouri State University, Maryville, Missouri: The Biology Department announces three searches for full-time faculty members, each beginning August 2001. The positions are (1) Genetics/Molecular Biologist, tenure-track **ASSISTANT PROFESSOR**; (2) Vertebrate Anatomist, tenure-track **ASSISTANT PROFESSOR**; and (3) Plant Ecologist/Entomologist, annually renewable **INSTRUCTOR**. Chairperson position also available. Detailed information about these positions and how to apply can be found at [website: www.nwmissouri.edu/HR/humanres.html](http://www.nwmissouri.edu/HR/humanres.html). Review of applications will begin February 16, 2001, and continue until positions are filled. *Northwest is an Equal Opportunity Employer and encourages women and minorities to apply.*

The Academy of Natural Sciences of Philadelphia invites applications for two **FORESTRY POSITIONS** (one **POSTDOCTORAL**, one **MASTER'S LEVEL**) to study Norway maple invasions of urban forests (see overview at [website: www.acnatsci.org/staff/mcnair/adaptman.html](http://www.acnatsci.org/staff/mcnair/adaptman.html)). Both are full-time, available at once, with full benefits. Strong forestry and quantitative skills required. Details and application instructions are at [website: www.acnatsci.org/research/jobs.html](http://www.acnatsci.org/research/jobs.html) (Jobs Number 805 and Number 806). *Equal Opportunity Employer.*

A **POSTDOCTORAL POSITION** is available to study mechanisms of *M. avium* and *M. tuberculosis* pathogenesis (interaction with macrophages and mucosal cells). A Ph.D. or M.D. degree and a strong background in molecular biology and biochemistry or cell biology are required. Please send curriculum vitae and two support letters to: **Dr. Luiz Bermudez, Kuzell Institute for Infectious Diseases, 2200 Webster Street, San Francisco, CA 94115. E-mail: luizb@cooper.cpmc.org.**

RESEARCH POSITIONS available in the areas of molecular biology and genetics. Ph.D. or M.D. required. Applicants should send curriculum vitae, references, and a brief description of research interests to: **Lynn Egloff, Department of Molecular Biology, Princeton University, Lewis Thomas Laboratory, Princeton, NJ 08544. FAX: 609-258-3980. Princeton University is an Equal Opportunity/Affirmative Action Employer.**

Leaders for the Diamond Synchrotron

The Diamond project will provide a world-leading 3rd generation synchrotron radiation facility for the scientific community. It will be located at the Rutherford Appleton Laboratory site, Oxfordshire, UK and is due to go into operation in 2006. This project will be designed, built and operated by a joint venture company to be established by the partners.

Chief Executive Officer

The role of the Chief Executive Officer will be to provide overall direction to the design, construction and operation of the Diamond synchrotron radiation source and its associated facilities.

Applicants should have experience of management of large scientific laboratories and be able to direct the project with vision.

Technical Director

The role of the Technical Director will be to provide leadership in the design phase of Diamond, management of the construction phase and vision for the efficient operation and future technical developments of the Diamond synchrotron radiation source and its associated facilities.

Applicants should have experience of synchrotron or related facilities and management of scientific laboratories, and be able to direct the project with vision.

Both posts will be available from June 2001, or earlier if possible, and will be offered for up to a period of 7 years to take the project through construction to operation.

The salary range for each position will be commensurate with the level of responsibility and is negotiable depending on experience.

For further information on both posts contact the convenor of the search committee, Professor John Evans, Department of Chemistry, University of Southampton, Southampton SO17 1BJ, UK. Tel: +44 (0) 23 8059 3307; email: je@soton.ac.uk
Details of the job description and the project are also available on the web site: <http://www.Diamond.ac.uk>

Applications in the form of a curriculum vitae, expression of interest and the names and addresses of three referees should be sent to the Diamond Search Committee, c/o Dr F C Saunders, Office of Science and Technology, Albany House, Petty France, London SW1H 9ST by February 19 2001.



OSI Pharmaceuticals

OSI Pharmaceuticals is a leading biopharmaceutical company with a substantial portfolio of product opportunities for commercialization with the pharmaceutical industry. OSI's research programs are focused in the areas of cancer therapeutics, respiratory diseases, diabetes, and cosmeceuticals. OSI utilizes a comprehensive drug discovery and development capability to facilitate the rapid and cost-effective discovery and development of novel, small molecule compounds against more than 40 gene targets.

Assay Technology Scientist

Make an impact on leads discovery through creatively evaluating and applying new assay technologies. The position calls for a PhD with two or more years of pharmaceutical/biotechnology experience in biochemistry, cell biology or related subject. A master's degree is acceptable with extensive experience. A successful track record of assay development is required, including experience with homogeneous assay technologies and fluorescent techniques.

Technology Application Scientist

We are seeking an individual to evaluate new equipment designed for ultra high-throughput screening (uHTS). The successful applicant will perform feasibility studies on pipetting workstations and imaging systems used for miniaturized liquid handling and screening in high-density microplate formats. The position calls for an MS or BS in a science, bio-engineering or robotics discipline and 5 years of experience. The ideal candidate will have specialized knowledge of pipetting workstations, various pipetting techniques and imaging devices.

OSI Pharmaceuticals offers a superb benefits package, including 3 weeks vacation, stock options, 401(K) and opportunities for career development. Qualified candidates may send resumes (indicate position of interest) to: **Human Resources, OSI Pharmaceuticals, Inc, 106 Charles Lindbergh Blvd, Uniondale, New York 11553; Fax: (516) 222-0114; E-mail: employment@osip.com.** Equal Opportunity Employer M/F/D/V.

www.osip.com



KLINIKUM der Philipps-Universität Marburg AdöR

- INTERDISZIPLINÄRES MEDIZINISCHES ZENTRUM -

**Abteilung für Klinische Chemie und
Molekulare Diagnostik - Zentrallaboratorium,
Direktor Prof. Dr. med. Harald Renz**

The Department of Clinical Chemistry and Molecular Diagnostics at the Philipps-University Marburg (Director: Prof. Dr. Harald Renz) seeks a

Senior Scientist

for the establishment of an independent Research Group in the field of Molecular Genetics with special emphasis on the development of novel molecular intervention strategies (e.g. Ribozymes) of Allergy and Asthma.

MD candidates are offered the opportunity to complete a residency in Laboratory Medicine, Ph.D. candidates are able to obtain the degree "Clinical Chemist".

Complete applications (CV, list of publications, two letters of recommendation) may be sent to the **Director of the Department of Clinical Chemistry and Molecular Diagnostics, D-35033 Marburg, Germany, Klinikum of the Philipps-University.**

Further information may be obtained through Prof. Dr. H. Renz (phone: +49-6421-66234/5).

POSITIONS OPEN

POSTDOCTORAL POSITIONS (two) available to study sphingolipid domains and the role of glycolipid transfer protein in glycosphingolipid intermembrane transfer in cells. Fluorescence, monolayer, calorimetric, NMR, and freeze-etch EM approaches will be used to investigate glycosphingolipid membrane organization and its role in regulating glycolipid transfer protein. Cell and molecular biological approaches will be used to investigate GLTP structural and functional relationships *in vitro* and *in vivo*. Requires Ph.D. in biochemistry, molecular biology, or related area. Preference will be given to individuals with experience in approaches noted above and/or molecular biological cloning and expression techniques. Send curriculum vitae and names of three references to: **Dr. Rhoderick E. Brown, The Hormel Institute, University of Minnesota, 801 16th Avenue N.E., Austin, MN 55912.** *The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.*

The Department of Biology of Dalhousie University is seeking to hire an **ASSISTANT PROFESSOR** with expertise in the biology of microorganisms (preference will be given to persons proposing to work in marine systems). The successful candidate will teach an undergraduate class in introductory microbiology and will develop classes from such subject areas as marine microbiology, phytoplankton ecology, environmental microbiology, or diseases of aquatic organisms. A Ph.D. in a related science, an interest in teaching, and demonstrated excellence in research are required. Postdoctoral experience is desirable. Applicants should send complete curriculum vitae; a statement of teaching and research interests; and contact information for three references by March 31, 2001, to: **Dr. Michael Hart, Chair of Selection Committee, Department of Biology, Dalhousie University, Halifax, NS B3H 4J1 Canada.** *In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada. Dalhousie University is an Employment Equity/Affirmative Action Employer. The University encourages applications from qualified aboriginal people, persons with a disability, racially visible persons, and women.*

UNIVERSITY OF MAINE

We seek a full-time **POSTDOCTORAL ASSOCIATE** for up to 36 months to conduct analyses of trace gas microbiology in soil and rhizosphere systems. Ph.D. in microbiology or related field required; experience with gas chromatography, radiotracers, cultures, and molecular techniques for diversity analysis highly desirable. Annual salary range: \$30,000 to \$32,000. Complete list of qualifications and job description available at website: www.umaine.edu/hr/jobs/research. Send statement of interest, curriculum vitae, and three letters of reference to: **Dr. G.M. King, Darling Marine Center, University of Maine, Walpole, ME 04573.** Review of applications begins 20 February 2001. *The University of Maine is an Equal Opportunity/Affirmative Action Employer.*

RESEARCH POSITIONS VASCULAR SURGERY

The Department of Surgery at Duke University Medical Center is establishing a Vascular Core facility. Positions are available immediately at the **RESEARCH ASSOCIATE** or **RESEARCH PROFESSOR** level to develop and utilize vascular surgical models in the mouse and larger animal. The candidates will join a team of basic and clinical Scientists committed to the treatment of vascular disease. Please send curriculum vitae, letter of research experience, and three reference names to: **Per-Otto Hagen, Department of Surgery, DUMC Box 3473, Durham, NC 27710.** FAX: 919-684-5293; e-mail: hagen-003@mc.duke.edu.

POSITIONS OPEN

POSTDOCTORAL POSITIONS MOLECULAR FUNCTIONS OF THE GOLGI COMPLEX

Two Postdoctoral positions are immediately available to study the molecular mechanisms of exit from the Golgi complex in rat hepatocytes and expansion of the organelle during lactogenesis II in mammary epithelial cells. Projects are available to study and characterize multiple unknowns identified by proteomic analysis of fractionated Golgi (*Traffic* 1:769-782, 963-975; *Electrophoresis* 21[16]:3441-3459). Technology available includes 2-D gels, mass spectrometry, cell fractionation, imaging (light and EM), and tissue culture. Successful applicants should be fluent in English and have a strong background in molecular biology and cell biology. Please send curriculum vitae, names of three references, and letter describing interests to: **Dr. Kathryn Howell, University of Colorado Health Sciences Center, Department of Cellular and Structural Biology, 4200 East Ninth Avenue, B-111, Denver, CO 80262.** E-mail: kathryn.howell@uchsc.edu. *The University of Colorado is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION to investigate the mechanisms of action of insulin and growth factors (see website: <http://www.med.virginia.edu/medicine/basic-sci/pharm/lawrence.html>). The laboratory uses molecular and biochemical methods to investigate signal transduction pathways involved in the control of glycogen synthesis and mRNA translation. Experience in these areas is desirable but not essential. Both foreign and domestic applicants at the Ph.D. level will be considered. Salary will depend on qualifications. To apply, send résumé to: **Dr. John C. Lawrence, Department of Pharmacology, P.O. Box 800735, University of Virginia, Charlottesville, VA 22908-0735.** E-mail: jcl3p@virginia.edu. Application deadline: open until filled. *The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSOCIATE POSITION NANOBIOTECHNOLOGY Cornell University

A position is available immediately to study the integration of biomolecular motor proteins with nanoelectromechanical systems (NEMS). Expertise in molecular biology and biochemistry is required. For details, please refer to website: <http://falcon.aben.cornell.edu/opportunities.htm>. Send curriculum vitae and the names of three references to: **Dr. Carlo Montemagno, Department of Agricultural and Biological Engineering, Cornell University, 116 Riley Robb, Ithaca, NY 14853.** E-mail: cdm11@cornell.edu. *Equal Opportunity Employer.*

SENIOR RESEARCH SCIENTIST TEAM LEADER IN INFLAMMATION

Rapidly growing, pre-IPO, Boulder, Colorado, company is looking for an enthusiastic, motivated Ph.D. or M.D. Scientist with broad knowledge of molecular disease mechanisms in inflammatory diseases. The position also requires skilled use of molecular tools, particularly gene expression, in the study of inflammation plus demonstrated leadership skills. *Eligibility to work in the United States and an enthusiasm for the biotechnical arena are essential.*

Via e-mail only, please send résumé, annual salary requirements, and availability to: e-mail: bpetropu@sourcemedicine.com. No telephone calls, please.

A **POSTDOCTORAL POSITION** is available immediately to study the structure and mechanisms of pyridoxal phosphate-dependent enzymes. Applicants should have a Ph.D. in chemistry or biochemistry or molecular biology with an emphasis on protein engineering. Send curriculum vitae, a description of research experience, and names and contact information for three references to: **Dr. Michael Toney, Department of Chemistry, University of California, Davis, CA 95616.** FAX: 530-752-8995; e-mail: toney@chem.ucdavis.edu. *An Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

The Veterans Affairs Ann Arbor Health System, Division of Gastroenterology, seeks a **GASTROENTEROLOGIST** for a position at the Ann Arbor Veterans Affairs Medical Center. Candidates should be Board-certified in internal medicine and be Board-certified/Board-eligible or finishing training in gastroenterology. A specific expertise in molecular biology with an emphasis in immunology and apoptosis research is required to support a multidisciplinary program in colon cancer. Experience with knockout mice and gene targeting is preferred. Similarly, research experience in signal transduction and protein interaction analysis is preferable, particularly if the candidate is versed in newer techniques such as yeast two-hybrid systems. Finally, other research experience with potential application to cancer therapies such as gene therapy or vaccine research is considered an important asset for this position. The position will include endoscopy and clinical and teaching responsibilities. This position is full-time and will also include employment at the University of Michigan, Department of Internal Medicine, Division of Gastroenterology. Qualified individuals should submit curriculum vitae, a brief statement summarizing present and future research interests and objectives, and three letters of recommendation to: **Carol Burgeson, Human Resources, Veterans Affairs Ann Arbor Health System, 2215 Fuller Road, Ann Arbor, MI 48105.** *The Veterans Affairs Ann Arbor Health System and The University of Michigan are Equal Opportunity Employers.*

POSTDOCTORAL FELLOWSHIPS NIH TRAINING GRANT

Cardiovascular laboratory investigating disease mechanisms and therapies is recruiting Postdoctoral Researchers. Project fields include cardiac and pulmonary development, heart valve disease, gene therapy, biomaterials, tissue engineering, stem cell biology, vascular injury, drug delivery systems, and pharmacology. Competitive salary and full benefits. Applicants with Ph.D. and/or M.D. and resident alien or U.S. citizen status should send their curriculum vitae and the names of three references to:

Robert J. Levy, M.D.
Training Program Director
The Children's Hospital of Philadelphia, 7N ARC
3516 Civic Center Boulevard
Philadelphia, PA 19104
FAX: 215-590-5454
E-mail: levyr@email.chop.edu
Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.

The Aaron Diamond AIDS Research Center is seeking applicants for **CLINICAL SCHOLAR FELLOWSHIP** in conjunction with Rockefeller University. The Clinical Scholars program provides training to Physicians interested in a career in patient-oriented and basic research. Clinical Scholars will have an appointment for two years beginning in July 2001 with a possible third year granted based upon progress during the period of appointment. Interested individuals should FAX their curriculum vitae along with a letter describing their research interests and the names of three or more Scientists or Physicians prepared to write letters of reference to: **David Ho, M.D.; FAX: 212-448-5158.** No calls, please; telephone calls will not be accepted.

Two **POSTDOCTORAL POSITIONS** are available in the program in cardiovascular sciences at the University of Illinois at Chicago to study cardiac muscle function and cellular determinant of muscle growth. The ideal candidate should have background in calcium imaging, cellular electrophysiology, and/or molecular biology. *U.S. citizenship or permanent residency status is preferred.* Please send curriculum vitae and names of three references to: **R. John Solaro, Ph.D. and/or Beata M. Wolska, Ph.D., University of Illinois at Chicago, Department of Physiology and Biophysics (M/C 901), 835 South Wolcott Avenue, Chicago, IL 60612.**

**New Research Initiative-Endocrine
Pancreas/Beta Cells-Tenure Track Positions**

The Diabetes Branch of the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health (NIH) invites applications for tenure track positions for scientists in research involving the endocrine pancreas/beta cells of the islets of Langerhans. Specific areas of research interest includes: pancreatic islet stem/progenitor cells; beta cell development; regulation of beta cell gene expression; and beta cell signaling. Priority will be given to applicants at the Assistant Professor level at traditional universities or those finishing their post-doctoral positions. The applicant must have a proven record of accomplishments and will be expected to propose and pursue an independent research program in one of these fields. These positions offer unparalleled opportunities for interdisciplinary collaboration within NIDDK and throughout NIH.

The Diabetes Branch of NIDDK is located on the main intramural campus of the NIH in Bethesda, Maryland, a suburb of Washington, D.C.

Interested applicants should send a Curriculum Vitae and a list of publications, copies of three major publications, a summary of research accomplishments, a plan for future research and three letters of recommendation to:

Dr. Jurrien Dean, Chair, Search Committee, Laboratory of Cellular and Developmental Biology, NIDDK, Building 6, Room B1-28, NIH, Bethesda, MD 20892. The closing date for all applications to be submitted is **March 30, 2001**.

NIH is an Equal Opportunity Employer

**Protein Folding Diseases
Post-doctoral and Research Associate Positions**

The **Center for Research and Treatment of Alzheimer's Disease and Amyloid-Related Disorders** in the **University of Tennessee Graduate School of Medicine** invites applications for new research positions now open at the **post-doctoral** and **research associate** levels. The Center consists of established, well-funded multi-disciplinary programs fostering state-of-the-art studies by over 20 scientists on the pathogenesis, diagnosis and treatment of cerebral and systemic amyloidosis. Active collaborations also exist with investigators on the nearby campuses of the University of Tennessee and Oak Ridge National Laboratory. Over the next six months the Center will be adding 5 to 10 new positions in a range of scientific disciplines including **structural, molecular, and cellular biology, immunology, and experimental pathology**.

The laboratories of **Ron Wetzel**, PhD, concentrate on the structures, mechanisms of assembly, assembly inhibition, and cytotoxicity of protein aggregates involved in Alzheimer's disease and polyglutamine diseases such as Huntington's Disease.

The laboratories of **Alan Solomon**, MD, concentrate on basic and clinical investigations of the systemic amyloidoses with special emphasis on primary (AL) amyloidosis. In addition to the development of animal models and studies of the molecular features of amyloid deposits, a major effort involves the characterization and therapeutic application of anti-amyloid antibodies.

Candidates for **post-doctoral** positions should have a PhD, MD, or MD/PhD in one of the above disciplines. Candidates for **research associate** positions should have an MS, or a BS plus at least four years of experience, in protein chemistry, molecular biology, or cell biology. Applications, including a statement of qualifications, CV, and the names and addresses of three references, should be forwarded to the **Human Resources Department, University of Tennessee Medical Center, 1924 Alcoa Highway, Knoxville TN 37920**.

The University of Tennessee Medical Center at Knoxville is ideally located in beautiful East Tennessee at the foothills of the Great Smoky Mountains offering year round recreation and metropolitan conveniences coupled with rural charm. Positions offer competitive salaries with outstanding University fringe benefits.

UTMCK is an EEO / AA / Title IX / Section 504 ADA / ADEA Employer

FELLOWSHIPS

**Want to change field?
Want to change organism? Want to work with plants?**

**Gatsby Postdoctoral Research Fellowship in
Plant Sciences**

Applications are invited for a Gatsby Postdoctoral Research Fellowship tenable for 3 years from a mutually agreed date (after October 2001) in a university or research institute in the UK.

The aim is to support an outstanding research scientist who wishes to apply skills learned with other organisms to studies with plants. Applicants should identify an appropriate research laboratory in the UK and develop a research proposal where they exploit their skills in an area of plant research. Applicants must have a PhD and have demonstrated their ability to produce first class innovative research in an area outside of plant sciences. Research proposals will be considered in the areas of fundamental aspects of plant growth and development, or molecular plant pathology.

The Research Fellow will be paid according to the employer's academic salary scale. Annual research expenses of £15,000 will be available to provide running expenses. The Gatsby Postdoctoral Research Fellowship is open only to a scientist without a substantive post of employment.

Applications should consist of a proposal for a 3-year research programme (on two sides of A4) and a curriculum vitae. Applications should be accompanied by a brief letter stating the reasons for the application, and a letter indicating the willingness of the UK laboratory to host the Fellowship. Two letters of recommendation should be sent under separate cover. Applications (5 copies) and references should be sent to Lisa Page, Gatsby Charitable Foundation, 9 Red Lion Court, London EC4A 3EF, to arrive no later than 28 February 2001. For enquiries email l.page@gtep.co.uk

GLOBAL OPPORTUNITIES

**Fellowship Program
for
Postdoctoral Research
in Japan**

**In
Scientific, Technical, Engineering,
and
Medical fields
at National Research Institutes**

**Details available on web site:
<http://stafellow.jst.go.jp/index.html>**

or

**Department of International Affairs
Japan Science and Technology
Corporation (JST)**

POSITIONS OPEN

FACULTY POSITION IN NEUROPHYSIOLOGY Yale University School of Medicine Department of Cellular and Molecular Physiology

Applicants are solicited for a faculty position at the junior or senior level in the Department of Cellular and Molecular Physiology, Yale University School of Medicine. Candidates must hold a Ph.D., M.D., or equivalent degree. The candidate's research interest should be in the general area of cellular and molecular physiology. Our search will emphasize cellular or systems neurophysiology. Excellent opportunities are available for collaborative research as well as for graduate and medical student teaching.

Complete curriculum vitae, a statement of research interests and goals, and three letters of reference should be sent by May 1, 2001, to:

Dr. Steven C. Hebert, Chair
Department of Cellular and Molecular Physiology
Yale University School of Medicine
333 Cedar Street
P.O. Box 3333
New Haven, CT 06510

Yale University is an Affirmative Action/Equal Opportunity Employer. Qualified women and minority group members are encouraged to apply.

Two positions are available in the laboratory of **Dr. Stephen L. Sturley** at Columbia University, New York. Position One is at the level of **POSTDOCTORAL FELLOW** and requires a Ph.D./M.D. with experience in molecular biology and preferably (but not essentially) some knowledge of yeast genetics or lipid metabolism. The successful candidate will work on a project studying one aspect of our studies in lipid homeostasis: identification and analysis of novel genes involved in neutral lipid biosynthesis (DGAT), sterol transport (ARV1), or neurodegeneration (Niemann Pick Type C disease). Position Two (**TECHNICIAN B**) requires a B.S./M.S. degree with laboratory experience. Salaries for both positions are, of course, commensurate with experience. Contact: **Steve Sturley**; Telephone: 212-305-6304; e-mail: sls37@columbia.edu for further details. *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION

Two-year plus funded position studying the biochemistry of mycothiol, a novel thiol that replaces glutathione in most actinomycetes. Emphasis is on mycobacteria with the aim of identifying new targets for drugs directed against tuberculosis. Experience in gene cloning and in isolation and characterization of enzymes is desirable. Applicants should send curriculum vitae and names of three references to: **Robert C. Fahey, Department of Chemistry and Biochemistry, University of California, San Diego, La Jolla, CA 92093-0506. E-mail: rfahey@ucsd.edu.**

POSTDOCTORAL POSITION to study cardiac tissue-specific gene expression and the molecular mechanisms underlining various forms of heart disease. Please send your curriculum vitae to: **Jeffery D. Molkentin, Ph.D., Children's Hospital, Division of Molecular Cardiology Biology, 3333 Burnet Avenue, Cincinnati, OH 45229-3039. FAX: 513-636-5958; e-mail: jeff.molkentin@chmc.org.** *Children's Hospital is an Affirmative Action/Equal Opportunity Institution.*

A two-year **POSTDOCTORAL FELLOWSHIP** is available at University of California Berkeley. Need strong background in molecular biology, biochemistry, and/or biophysics with experience in biotechnology or clinical applications for conducting research overlapping molecular biology and engineering. The work involves developing clinical biosensors as well as nanostructure-biomolecule conjugates. Salary will match qualifications. Send résumés by e-mail to: postdoc@mc.berkeley.edu.

POSITIONS OPEN

POSTDOCTORAL POSITIONS IN CHICAGO

Positions available immediately to study regulators of the cell cycle using cell culture and mouse models. Applicants must have a Ph.D. and extensive training in molecular biology. Send curriculum vitae and three letters of recommendation to: **Dr. Pradip Raychaudhuri, University of Illinois at Chicago, Department of Biochemistry and Molecular Biology, 1819-53 West Polk Street (M/C 536), Chicago, IL 60612. UIC is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS in the Genomics/Proteomics of Retinal Degenerative Diseases

Two positions are available for Postdoctoral Fellows in projects examining the composition and genesis of drusen (a major risk factor for age-related macular degeneration) and the morphogenesis of the retinal pigment epithelium. Successful candidates will be an integral part of a multidisciplinary team that is combining recent advances in tissue microdissection with proteomic/genomic technologies. These positions require a Ph.D. or M.D./Ph.D. and prior experience in at least two of the following areas: histology, protein chemistry, mass spectrometry, or molecular biology. Salary will be commensurate with experience. Interested individuals should send a letter of interest, curriculum vitae, and the names of three references to: **Alan Marmorstein, Ph.D., Ophthalmic Research, i31, Cole Eye Institute, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. FAX: 216-445-3670; e-mail: marmora@ccf.org.**

Applicants are invited to study the genetics of inherited retinal degeneration and/or the mechanisms underlying these disorders. Candidates should possess a Ph.D. or M.D./Ph.D. and a strong background in molecular genetics or cell biology approaches. Please send curriculum vitae and a summary of current research along with the names of three references to: **Stephanie A. Hagstrom, Ph.D., Department of Ophthalmic Research, i31, Cole Eye Institute, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195. FAX: 216-445-3670; e-mail: hagstrs@ccf.org.**

DIRECTOR BONE HISTOMORPHOMETRY CORE LABORATORY

The University of California and Veterans Affairs Medical Center, San Francisco, are recruiting a Director for a bone histomorphometry core laboratory. The Director will be responsible for processing human and rodent bone samples for routine quantitative histomorphometry, light and electron microscopy, *in situ* hybridization, immunocytochemistry, and quantitative analysis of microscopic images using digital imaging technology in support of NIH, DOD, VA, and NASA funded programs. The successful candidate will have advanced training in a biological science and hands-on experience with bone histomorphometry. Experience with animal experimentation is essential. Please send your curriculum vitae to: **Bernard Halloran, Ph.D., VA Medical Center, 111N, 4150 Clement Street, San Francisco, CA 94121.**

POSTDOCTORAL POSITION

An NIH-funded position in microbiology to discover plant inhibitors of microbial MDR pumps. The project is a collaboration with a chemistry group. Please e-mail curriculum vitae and names of three references to: **Dr. Kim Lewis, Biotechnology Center, Tufts University, 4 Colby Street, Medford, MA 02155. E-mail: klewis@tufts.edu; website: <http://ase.tufts.edu/biotech/kimhomepage.htm>.**

POSITIONS OPEN

THE DEPARTMENT OF PATHOLOGY The University of California, San Francisco and the Cancer Research Institute

The Department of Pathology of the University of California San Francisco School of Medicine seeks an outstanding Researcher and Pathologist in the area of molecular pathology of cancer for a tenure-track faculty position. Appointment will be made at the **ASSISTANT PROFESSOR** level. Applicants should have an M.D. or M.D./Ph.D. degree, be Board-certified in anatomic pathology, and should have completed a Postdoctoral Fellowship in cancer research. The candidate will have a joint appointment in the Cancer Research Institute and laboratory space in the UCSF Cancer Research Institute. The candidate will be expected to develop an independent research program and may have limited clinical responsibilities in anatomic pathology.

Applicants should submit curriculum vitae and names of three references within one month of the appearance of this announcement to:

Dr. Thea Tlsty
Pathology/Cancer Research Institute
Search Committee
University of California, San Francisco
HSW 451, Box 0506
513 Parnassus Avenue
San Francisco, CA 94143-0506

UCSF is an Affirmative Action/Equal Opportunity employer. The University undertakes Affirmative Action to assure Equal Employment Opportunity for underutilized minorities and women, for persons with disabilities, and for Vietnam-era veterans and special disabled veterans.

MASSACHUSETTS GENERAL HOSPITAL HARVARD MEDICAL SCHOOL

A **POSTDOCTORAL POSITION** is available to study the molecular and developmental biology of the skin. Our laboratory uses mouse models to investigate tissue morphogenesis, and areas of interest include the regulation of cell division, differentiation, apoptosis, and signaling (see website: <http://cbrca12.mgh.harvard.edu/>). Applicants should have a Ph.D. or M.D./Ph.D. as well as experience in molecular biology. Send curriculum vitae and the names of three references (including addresses and telephone numbers) to:

Janice L. Brissette, Ph.D.
Cutaneous Biology Research Center
Massachusetts General Hospital-East
Building 149, 13th Street
Charlestown, MA 02129
FAX: 617-726-4453
E-mail: janice.brissette@cbrca2.mgh.harvard.edu

The MGH/Harvard Cutaneous Biology Research Center is a committed Equal Opportunity/Affirmative Action Employer. Minorities, women, handicapped, and veterans are encouraged to apply.

POSTDOCTORAL POSITIONS UNIVERSITY OF PENNSYLVANIA

One Postdoctoral Fellow position is available immediately to study mechanisms of transcriptional regulation of caudal-related homeobox proteins in normal colon and colorectal cancer. The goals are to determine regulatory elements and to examine cellular signaling pathways that regulate intestine-specific gene expression in colon cancer cells.

The position requires molecular experience such as PCR, Southern blot analysis, and basic recombinant DNA techniques. Experience with genetic mapping is also desirable. Please e-mail or send curriculum vitae and the names and contact information of three references to: **Dr. EunRan Suh, Ph.D., Division of Gastroenterology, Department of Medicine, University of Pennsylvania, Philadelphia, PA 19104-6144. E-mail: suher@mail.med.upenn.edu.** *The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.*

Plan to attend Science's 2001

career FAIRS



CAREER FAIRS hosted by Science

February 19, 2001

San Francisco Hilton
and Towers
San Francisco, CA
From 11am -4pm
Held in conjunction with the
AAAS Annual Meeting
www.sciencecareers.org

June 19, 2001

University of California,
Irvine
Irvine, CA
www.sciencecareers.org

August 13, 2001

Seaport Hotel
Boston, MA
www.sciencecareers.org

Also at the Seaport Hotel ...
**Drug Discovery
Technology 2001**
held August 13-17, 2001
www.drugdisc.com

We also recommend attending these EVENTS sponsored by Science

March 29-30, 2001

Science Career Forum
University of Chicago/
Northwestern University
Chicago, IL
<http://caps.uchicago.edu/>

April 19, 2001

Biotech Industry Day
University of California,
San Francisco
San Francisco, CA
<http://saawww.ucsf.edu/career/welcome.htm>

Science
www.sciencecareers.org

SENIOR SCIENTIST, MOLECULAR BIOLOGY

SAIC Frederick works at the forefront of biomedical research at the National Cancer Institute (NCI) in Frederick, MD. Projects are from a wide range of NIH-supported cutting-edge research, both intramural and nationwide. We are currently seeking a Senior Scientist in Molecular Biology to work in the cross-disciplinary, highly collaborative environment of the Molecular Epidemiology Laboratory Unit (MELU), Cancer Prevention Studies Branch (CPSB). Its mission is to develop population- and clinic-based interventions for cancer prevention and early detection, building upon new knowledge of genetic environmental determinants of risk.

The ideal candidate for the Senior Scientist position must be able to demonstrate a comprehensive understanding and practical experience with advanced molecular biology techniques such as expression arrays, protein arrays and other novel molecular biology tools. A keen interest is a must in new technology development such as SNP analyses and genotyping and its application to translational research in the early detection and prevention of cancer. This position requires a high degree of collaboration and coordination of activities plus strong leadership qualities, working effectively with others in a laboratory setting and a positive attitude towards the Branch mission of cancer prevention and early detection.

The Senior Scientist will serve as senior advisor and consultant to both the Branch Chief and Senior Investigators in support of their research goals, provide and coordinate technical support for investigators in the MELU, facilitate the development of new molecular assays and technologies in support of CPSBs translational research mission, and develop a research program that integrates with ongoing laboratory research. A PhD in molecular biology, molecular genetics or a related field and 8+ years' experience are required.

At SAIC, we believe that people are our most valuable resource. If you desire to be part of an organization that is rapidly driving the future of science, send your resume to: e-mail: jbrumer@mail.ncifcrf.gov

A complete description of the research programs of the CPSB can be found on their Web site at:

<http://www-dcs.nci.nih.gov/branches/cpsb/>

"We value cultural diversity in the workplace."

Visit our Web site at: <http://saic.ncifcrf.gov>



SAIC Frederick

A Division of Science Applications
International Corporation

AA/EOE

MF/DN

The Hubert Burda Foundation for Cancer Research

Invites applications for
Research Grants
in the field of
Colorectal Cancer



HUBERT BURDA FOUNDATION
FOR CANCER RESEARCH

The goal of the foundation is to provide immediate support to colorectal cancer patients by accelerating the translation of therapeutic concepts into clinical therapy.

The Hubert Burda Foundation for Cancer Research Grants Committee considers applications for three-year project grant funding. Only applications in translational research will be considered. They will be judged for scientific excellence, innovation and relevance to colorectal cancer research.

Project grants provide support for a defined piece of work with objectives that can be achieved in the time specified. The grant of 250 000 EUR/year is to support the establishment of a small independent research unit at research institutes or hospitals of high scientific repute in Germany. Award recipients may use the grant to fund the salary of a small group of investigators, their own salary, and pay for supplies and travel. Equipment and overhead costs will not be funded.

Scientists or clinicians may apply. Applications from clinicians are only accepted when they spend at least 50 percent of their working time on the project. During the grant period, the clinician and study nurse may hold only a maximum of a half-time position at a hospital. Award winners must prove that laboratory space and equipment will be provided by a hospital or research institute in Germany.

Applicants must submit a three-page research proposal, a Curriculum Vitae and a list of Publications. The Foundation's international scientific advisory board will evaluate the applications for quality and relevance to colorectal cancer. Applicants whose projects have scored the highest will be invited to personally present their projects to the scientific advisory board in May 2001. Applicants will be informed of the board's decision within two weeks and funding could begin in July. *Deadline for applications:* March 20, 2001.

Submit applications to:

Hubert Burda Foundation for Cancer Research

Dr. Christine Polke, Arabellastr. 17, D-81925 Munich, Germany.

Tel: +49 89 9250 3178, Fax: +49 89 9250 2713, Email: polkech@foundation.burda.com

POSITIONS OPEN

POSTDOCTORAL POSITION available immediately to study the molecular genetics of human gynecologic cancers. Candidates must have the Ph.D. degree and a strong background in basic techniques of cell and molecular biology and molecular genetics such as cell culture, molecular cloning, PCR, sequencing, and mutation analysis. Salary commensurate with experience. Send curriculum vitae and names of three references to: **Dr. Jeff Boyd, Department of Surgery, Box 201, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021.** MSKCC is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS are available at Harvard Medical School, Department of Ophthalmology. Research addresses fundamental problems in the function, structure, and development of the eye and the mechanisms of eye diseases through the application of tools of classical/molecular genetics, cell biology, and biochemistry in a variety of model systems ranging from *Drosophila* to the mouse. Current openings are available in the laboratories of Drs. Arshavsky, Li, Malicki, and Pignoni. Send applications by e-mail or FAX to addresses listed at website: www.howelaboratory.harvard.edu. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS COMPARATIVE MICROBIAL GENOMICS

Join active international group using computational and experimental approaches to understanding gene and genome evolution in prokaryotes and protists. Emphasis on phylogenetic analysis, lateral gene transfer, environmental genomics. Send letter, curriculum vitae, names and telephone numbers of three references to: **W. Ford Doolittle, Biochemistry and Molecular Biology, Dalhousie University, Halifax, Nova Scotia B3H 4H7 Canada.**

POSTDOCTORAL RESEARCH ASSOCIATE. Positions available to investigate enzymes involved in the degradation of aromatic compounds. Candidates should have experience in molecular biology and/or enzymology and be interested in studying enzyme mechanisms. Please respond to: **Chris Whitman, Medicinal Chemistry Division, PHR 4.220B, College of Pharmacy, The University of Texas, Austin, TX 78712.** Applications will be accepted until suitable candidates are found. *The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.*

JOHNS HOPKINS ONCOLOGY CENTER

A POSTDOCTORAL POSITION is available to study genes altered in leukemia. A good background in cellular and molecular biology is required. *Preference is given to permanent residents or citizens of the United States.* Please respond by e-mail or FAX with curriculum vitae and three references to: **Donald Small, M.D., Ph.D., CRB Room 253, 1650 Orleans Street, Baltimore, MD 21231.** Telephone: 410-614-0994; FAX: 410-955-8897; e-mail: donsmall@jhmi.edu.

POSTDOCTORAL POSITION available immediately to study the molecular mechanisms of cell adhesion, cell migration, and tumor metastasis. Experience and training in molecular biology, cell biology, or biochemistry is required. Candidates should have a Ph.D. or M.D. degree. Please send curriculum vitae and three letters of recommendation to: **Dr. Xin Zhang, Vascular Biology, University of Tennessee Health Science Center, Coleman Building H300, 956 Court Avenue, Memphis, TN 38163.** E-mail: xazhang@utmem.edu.

Two **POSTDOCTORAL POSITIONS** for Reproductive/Developmental Biologists: One candidate will study the transcriptional switching of genes that occurs as trophoblast differentiates; the second will study the basis of sex ratio skewing that occurs as blastocysts form during *in vitro* embryo culture. Send complete curriculum vitae and the names and addresses of three references to: **Dr. R. Michael Roberts; e-mail: robertsrm@missouri.edu; website: <http://web.missouri.edu/~reprphys/>.**

POSITIONS OPEN

POSTDOCTORAL POSITION

The Department of Medicine of Thomas Jefferson University is seeking a qualified candidate for a Postdoctoral position in cardiovascular pathophysiology. The project focuses on identifying the mechanisms underlying the contractile abnormalities associated with cardiomyopathy and heart failure. The laboratory employs a variety of sophisticated biophysical techniques to study the protein-protein interaction involved in controlling cardiac muscle contraction including mechanics, laser photolysis of caged compounds, and fluorescence polarization spectroscopy. These studies utilize models ranging from single cardiomyocytes to trabeculae isolated from several sources, including transgenic animals. Qualified applicants should have a Ph.D. in biophysics or physiology. A background in motility is preferred, although applicants experienced with the cell biology of the myocardium will be considered. Molecular biology skills are also desirable. Qualified candidates should send curriculum vitae, summary of previous research experience, and names of three references to: **Edward B. Lankford, M.D., Ph.D. or Robert J. Barsotti, Ph.D., Department of Pathology, Anatomy, and Cell Biology, Jefferson Medical College, Thomas Jefferson University, 1020 Locust Street, 521 JAH, Philadelphia, PA 19107.** Equal Opportunity Employer.

A Postdoctoral research position is available to investigate the protective role of CTLs against *Chlamydia pneumoniae*, which causes a huge burden of pulmonary disease and has been implicated in atherosclerosis. The project will require use of techniques such as T cell cloning, precursor frequency analysis using tetramers and ELISPOTs, construction of DNA vaccines, and real-time PCR. Work will be performed in *C. pneumoniae*-infected mice and in human cells. Experience in cellular immunology is essential, and experience in molecular biology is desirable. The University of Texas Health Center at Tyler has 25 Scientists and their staff, including five NIH-funded Investigators, studying microbial pathogenesis. Tyler is 100 miles east of Dallas, with low living expenses and excellent public schools. Send curriculum vitae and names of three references to: **Benjamin Wizel, Ph.D., University of Texas Health Center, 11937 U.S. Highway 271, Tyler, TX 75708-3154.** FAX: 903-877-7989; e-mail: benjamin.wizel@uthct.edu. *The University of Texas is an Equal Opportunity Employer.*

BIOCHEMISTRY, MOLECULAR BIOLOGY, SIGNAL TRANSDUCTION, CELL BIOLOGY

POSTDOCTORAL RESEARCH ASSOCIATE position is available to study sphingolipid second messengers in *Saccharomyces cerevisiae* stress responses, endocytosis, and regulation of the actin cytoskeleton. Applicants should have a Ph.D. in biochemistry or related field and research experience with lipids, yeast cell or molecular biology, or protein purification. Send curriculum vitae plus a statement of career goals by e-mail: bobd@pop.uky.edu; or mail to: **Robert Dickson, Department of Biochemistry, University of Kentucky College of Medicine, Lexington, KY 40536 U.S.A.**

POSTDOCTORAL POSITION available immediately in NIH-funded project to investigate hereditary syndromes that include thrombocytopenias and biology of platelet formation. Experience in cellular and molecular biology is essential. Recent Ph.D. graduate with experience in techniques in genetic analysis, transgenic mouse models, and megakaryocyte culture and differentiation are encouraged to apply. Send curriculum vitae, a brief description of research accomplishments and interest, and names of three references to: **Michael Kelley, M.D., Department of Medicine, Duke University Medical Center, Box 3396, Durham, NC 27710 U.S.A.** E-mail: kelleym@duke.edu. *Duke University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITION CELL BIOLOGY

Available immediately at the Biomedical Engineering Laboratory of the Swiss Federal Institute of Technology in Lausanne. The research will be concentrated on the dynamics of the cytoskeleton and its role in directional cell motility using the model systems of fish epidermal keratocytes and mammalian fibroblasts. Experimental approaches include quantitative digital imaging, GFP probing, electron microscopy, micromanipulation, motion tracking, computer simulation, etc. The candidates should hold a Ph.D. degree in cell biology, biochemistry, molecular biology, biophysics, or related fields. Knowledge of French is not necessary. Additional information can be obtained from **Dr. A. B. Verkhovsky; e-mail: verkhov@dpmail.epfl.ch and at website: <http://lgmwww.epfl.ch>.** Send curriculum vitae and contact information for at least two references to: **Dr. A. B. Verkhovsky, Laboratory of Biomedical Engineering, Swiss Federal Institute of Technology, PSE-Eublens, 1015 Lausanne, Switzerland.** FAX: 41-21-693-83-30; e-mail: verkhov@dpmail.epfl.ch.

POSTDOCTORAL POSITION available to study molecular genetic mechanisms of host-adaptation of bacterial pathogens. We use microarray analysis and novel mutation scanning technologies to identify point and other mutations on a genomewide scale that lead to clonal diversification of *Pseudomonas aeruginosa* and other bacterial pathogens during adaptive within-host evolution. Candidates with excellent communication skills should apply. Send curriculum vitae and e-mail addresses of three references to: **Eugene Sokurenko, M.D., Ph.D., Department of Microbiology, University of Washington, Box 357242, Seattle, WA 98195.** E-mail: evs@u.washington.edu. *Affirmative Action/Equal Opportunity Employer.*

A POSTDOCTORAL POSITION is available immediately to study molecular mechanisms of sugar-mediated damage in retinal vascular cells. A strong background in molecular biology and protein chemistry is desired. *U.S. citizenship or permanent residency is required.* The applicant will work in a rich and highly interactive environment. Please send or FAX curriculum vitae and three references to: **Ram H. Nagaraj, Ph.D., Department of Ophthalmology, Case Western Reserve University, Wearn Building, Room 643, Cleveland, OH 44106.** FAX: 216-844-7962; e-mail: nhr@po.cwru.edu.

POSTDOCTORAL POSITION available to study signal transduction pathways in human breast cancer. Experience with molecular techniques including Western and Northern blot and PCR is preferred. Qualified candidates will require an M.D., Ph.D., or M.D.-Ph.D. Send curriculum vitae and names of three references to: **Richard J. Pietras, Ph.D., M.D., University of California at Los Angeles School of Medicine, Department of Medicine, Hematology-Oncology, 11-934 Factor Building, Los Angeles, CA 90095-1678.** FAX: 310-825-9769; e-mail: rpietras@ucla.edu.

POSTDOCTORAL or RESEARCH ASSOCIATE POSITION available for research on the molecular mechanisms of apoptosis in renal and prostate cancer leading to immunobiologic and drug resistance. Candidates with strong background in molecular biology preferred. Send curriculum vitae and names of three references to: **Dr. Robert Uzzo, c/o Human Resources, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111.** *Equal Opportunity Employer.*

The Aaron Diamond AIDS Research Center is seeking **POSTDOCTORAL FELLOWS** to conduct research on HIV pathogenesis treatment and vaccines.

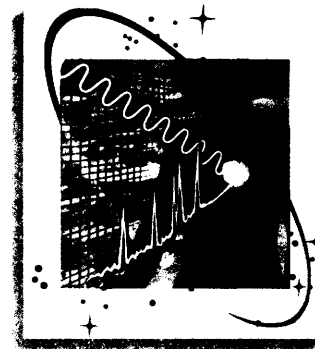
Interested individuals should FAX their curriculum vitae along with a letter describing their research interests and the names of three or more Scientists or Physicians prepared to write letters of reference to: **David Ho, M.D.; FAX: 212-448-5158.** No calls, please; telephone calls will not be accepted.

Fundamental Technologies For the Development of Biomolecular Sensors

NASA and NCI are jointly seeking innovations in fundamental technologies that will support the development of minimally invasive biomolecular sensor systems that can measure, analyze, and manipulate molecular processes in the living body.

Specific areas of interest include novel:

- molecular recognition chemistries, materials, chemical composites, nanoparticles, nanostructures, agents, and devices suitable for *in vivo* use.
- strategies for *in vivo* signal generation and amplification.
- dynamic signal acquisition systems and instrumentation suitable for non-invasive, dynamic signal acquisition from deep tissues and systems of reduced scale suitable for manned space missions.
- tools for feature definition, extraction, and processing including computational and mathematical approaches.
- approaches and multifunctional, miniature, technology platforms to create an interface between *in vivo* detection and targeted intervention, including nanostructures/devices and novel materials and composites.



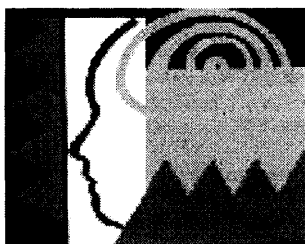
Proposals are encouraged from investigators from a variety of disciplines including, but not limited to, nanotechnology, chemistry, materials science, physics, engineering, biomedical research, and computational sciences; particularly as multidisciplinary teams.

For complete information on this Broad Agency Announcement visit:

<http://rcb.nci.nih.gov/appl/rfp/17016/Tab%20of%20Contents.htm>

Or request information by phone at **301.496.8620**

CONFERENCES



CONFERENCE ANNOUNCEMENT

THE HUMAN BRAIN PROJECT/ NEUROINFORMATICS

Natcher Conference Center, National Institutes of Health, Bethesda, Maryland

MAY 21-22, 2001

Neuroinformatics combines the concepts and principles developed in neuroscience research with those from the fields of computer science and information technology (informatics) research. The creation of an information management system for neuroscience will allow scientists to more easily integrate data about the brain and nervous system into new knowledge.

Specific Goals of the Conference:

- Provide updates on current developments in Neuroinformatics research from Human Brain Project Grantees
- Present novel or innovative methodological strategies, databases, and tools in Neuroinformatics research
- Offer new opportunities for investigators to become more informed and involved in the field of Neuroinformatics research.

Call for Abstracts: Abstracts for computer demonstrations and poster presentations will be selected from among those abstracts submitted by **May 1, 2001**. Limited funds are available to help defray travel costs for predoctoral students, postdoctoral fellows and investigators submitting abstracts for poster or electronic demonstrations that are not currently supported by the Human Brain Project.

For registration information, contact: Lisa Gail, Conference Planner, BL Seamon and Associates, Inc., 4221 Forbes Boulevard, Suite 245, Lanham, MD 20706; Phone: (301) 577-0244; Fax: (301) 577-5261; LisaG@blseamon.com
You may register on-line at www.blseamon.cc; **Registration Deadline:** May 1, 2001

For more information about the Human Brain Project and the most recent detailed information on the 2001 Conference (registration, hotels, abstract submission etc) please visit our Homepage at www.nimh.nih.gov/neuroinformatics/index.cfm

POSITIONS OPEN

THE JOHN A. MORAN EYE CENTER University of Utah

The Central Visual Processing Research Group of the John A. Moran Eye Center together with the Department of Mathematics has open positions for **POSTDOCTORAL RESEARCH FELLOWS** (four) and an **ASSISTANT PROFESSOR** (tenure track).

The tenure-track position is for a unit Physiologist interested in the organization of the primate visual cortex. Skills of the applicant could include optical or other forms of imaging, work with alert behaving monkey preparations, psychophysics, or other approaches.

The Postdoctoral Fellows should have skills in one or more of the following: neuroanatomy, neurophysiology, or neural modeling. All candidates should be interested in collaborating where the skills outlined are combined among the group to produce new information concerning the working of the central visual pathways.

Interested candidates should forward curriculum vitae, a statement of research interests and experience, a brief summary of future research, and the names of at least three individuals who may be contacted for letters of recommendation to: **Dr. Jennifer Lund**; e-mail: Jennifer.Lund@hsc.utah.edu for the anatomical/physiological positions and **Dr. Paul Bressloff**; e-mail: Bressloff@math.utah.edu for the neural modeling position. *Equal Opportunity Employer/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS

Several Postdoctoral positions available July 1, 2001, to study the transcriptional regulation of drug resistance genes. Projects include (1) chromatin regulation of the MDR1 promoter, (2) characterization of the MDR1 enhancer, (3) regulation of MDR1 transcription by tumor suppressor proteins, and (4) mechanism of action of the novel transcription-targeted chemotherapeutic ET-743. The successful candidates will be highly motivated and have a strong background in molecular biology, genetics, and/or biochemistry. Evidence of experimental productivity and peer-reviewed publications are required. Send curriculum vitae and the names of three references to: **Dr. Kathleen Scotto**, c/o Human Resources, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. *Equal Opportunity Employer.*

TWO POSTDOCTORAL POSITIONS MICROARRAY APPLICATION

Neo Gen Screening, a private laboratory specializing in detection of inborn metabolic diseases, has two Postdoctoral positions to investigate the application of microarray technology to high-throughput screening. Candidates with recent Ph.D. or M.D. and a background in molecular biology are desired. Experience with microarrays a plus. Send curriculum vitae and three references to: **Dr. Steven F. Dobrowski**, Section Chief, Division of Molecular Genetics, Neo Gen Screening, P.O. Box 219, Bridgeville, PA 15017. E-mail: sdobrowski@neogenscreening.com. *Neo Gen Screening is an Equal Opportunity Employer.*

POSTDOCTORAL RESEARCH POSITION

POSTDOCTORAL POSITIONS are available for highly motivated individuals to study signal transduction by integrins. Potential projects include analysis of signaling networks in integrin-mediated cell migration, role of novel FAK-induced genes in the regulation of cell cycle progression, and characterization of a new protein inhibitor for FAK family tyrosine kinases. Recent Ph.D. with solid training and experience in molecular biology, biochemistry, and/or cell biology is encouraged to apply. Please send curriculum vitae, a statement of career goals and research interests, and names of three references to: **Dr. Jun-Lin Guan**, Department of Molecular Medicine, Cornell University, Ithaca, New York 14853. E-mail: jlg19@cornell.edu. *Affirmative Action/Equal Opportunity Employer*

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POSTDOCTORAL/ASSOCIATE RESEARCH SCIENTIST POSITIONS Columbia University

The Department of Physiology solicits applications from M.D. or Ph.D. Researchers in the following areas of investigation: molecular, cellular, and genetic approaches to fundamental problems in cellular physiology and immunology; developmental vertebrate neurobiology; membrane biophysics; and vascular biology. Prior training in video imaging, electrophysiology, and immunocytochemistry is desirable for one of the positions available. Send curriculum vitae, a brief letter of interest, and names and addresses of three references to: **Samuel C. Silverstein, M.D.**, Department of Physiology, Columbia University, 630 West 168th Street, New York, NY 10032. Visit our website: <http://cpmcnet.columbia.edu/dept/physio/physio.html>. *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS

Bladder Pathogenesis, Tissue Engineering, and Immunology

We have developed the capacity to generate synthetic urothelium from human cell lines and seek to characterize this model by examining epithelial differentiation and incorporating engineered biodegradable matrices for use as drug delivery systems. We are also studying the events induced by uropathogenic *E. coli* in our human urothelial models, and we are characterizing the role of mast cells as modulators of the urothelial inflammatory response. Interested candidates please send curriculum vitae and list of references to: **Drs. David J. Klumpp** and **Anthony J. Schaeffer**, Department of Urology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611. E-mail: d-klumpp@northwestern.edu; FAX: 312-908-7275.

POSTDOCTORAL POSITION, Penn State, University Park, Pennsylvania: Position available immediately to study cellular regulation of the Ah receptor pathway. Current studies are focused on delineating the role of putative endogenous ligands, coactivators, immunophilins, heat shock proteins, and protein phosphorylation in regulating Ah receptor activity. Applicants should have a Ph.D. in toxicology, biochemistry, or related field. Salary is competitive and commensurate with experience. Submit curriculum vitae and names of three references to: **Dr. Gary H. Perdew**, Center for Molecular Toxicology and Carcinogenesis, 226 Fenske, Position Number S-9926, Penn State University, University Park, PA 16802. E-mail: ghp2@psu.edu. Deadline for applying is February 28, 2001. *Affirmative Action/Equal Opportunity Employer.*

A **POSTDOCTORAL POSITION** is available immediately to apply a novel concept of immunomodulation based on apoptosis to prevent and treat diabetes using NOD mice. Applicants should have a Ph.D. with strong background in cellular immunology and experience with NOD and islet transplantation. Salary is competitive. Applicants should send curriculum vitae, brief summary of research experience, and names of three references to: **Dr. Haval Shirwan**, 570 South Preston Street, Baxter Building, Suite 404E, University of Louisville, Louisville, KY 40202. E-mail: h0shir01@gwise.louisville.edu; Telephone: 502-852-2066; FAX: 502-802-2085.

POSITIONS OPEN

Columbia University **POSTDOCTORAL POSITION**. Center for Science, Policy, and Outcomes in Washington, D.C., seeks Postdoctoral Research scholars for one-year terms beginning late spring or summer 2001. The Center supports research, education, and policy development to enhance linkages between science and societal outcomes. Potential research areas include environment, human health, technology, standards of living/quality of life, international development, and governance. Candidates with multidisciplinary (policy plus scientific/technical) and/or multisectoral (academic plus government/private sector) experience are particularly encouraged to apply. The Center will also host Residency Fellows supported by outside funding conducting relevant research. Send curriculum vitae, letter of research and policy interests, and two letters of reference to: **Postdoctoral Search, Center for Science, Policy, and Outcomes**, 1 Thomas Circle, N.W., Suite 1075, Washington, DC 20005. Supervision faculty: **Michael Crow**, **Barry Bozeman**, **Dan Sarwitz**. For more information, see website: <http://www.cspo.org/whoware/jobs.html> or e-mail: ajs247@columbia.edu. *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS STEM CELLS AND GENE THERAPY

Three Postdoctoral positions are available in the Hematopoietic Stem Cell Gene Therapy program at Children's Hospital Los Angeles, University of Southern California, Keck School of Medicine. Projects include (1) gene transfer to inhibit HIV-1 replication, (2) induction of tolerance to the products of genes introduced by hematopoietic stem cell transplantation, and (3) stem cell plasticity. Laboratories are in a multidisciplinary environment that includes basic, translational, and clinical research on stem cells and gene therapy. Applicants should have a Ph.D. and/or M.D. degree with research experience in molecular or cellular biology. Please send curriculum vitae, summary of research experience, and two to three letters of reference to: **Donald B. Kohn, M.D.**, or **Gay M. Crooks, M.D.**, Division of Research Immunology/B.M.T., Children's Hospital Los Angeles, 4650 Sunset Boulevard, Los Angeles, CA 90027. E-mail: dkohn@chla.usc.edu or gcrooks@chla.usc.edu.

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POSTDOCTORAL POSITION MOLECULAR MODELING STUDIES

There is an immediate Postdoctoral position available with the Institute for Multifunctional Macromolecular Materials (IM³), an interdisciplinary team at Stevens Institute of Technology. The position will involve molecular modeling of the interactions between proteins and polymer surfaces as well as other problems in the modeling and theory of polymers and/or biopolymers. The candidate will work under the direct supervision of **Professor Marc L. Mansfield** of the Department of Chemistry and Chemical Biology and should have experience in software development in a Linux environment (Beowulf-class supercomputers) as well as experience with standard molecular modeling packages. Send curriculum vitae to: **Professor Mansfield**, Department of Chemistry and Chemical Biology, Stevens Institute of Technology, Hoboken, NJ 07030. E-mail: mmansfie@stevens-tech.edu with the subject Postdoctoral Position.

POSTDOCTORAL FELLOWS to study host-microbe interactions. One project will use gene array approach to study *Pseudomonas aeruginosa* adaptive response during host infection and the other will be on the mechanism of *Agrobacterium*-mediated plant transformation. Previous experience in molecular biology or related fields is highly preferred. Please submit your curriculum vitae and names and telephone numbers of three references to: **Shouguang Jin**, Department of Molecular Genetics and Microbiology, Box 100266, University of Florida, Gainesville, FL 32610. E-mail: SJIN@UFL.EDU.

POSITIONS OPEN

IMMEDIATE POSTDOCTORAL POSITIONS THE UNIVERSITY OF FLORIDA

Two federally funded Postdoctoral Scientist positions are available in the Division of Endocrinology, Department of Medicine. One is for an individual exceptionally well trained in protein biochemistry and molecular biology to investigate the regulation of expression of enzymes involved in drug and amino acid metabolism and in mitochondrial energetics. Expertise in cell culture, mitochondrial biology, and enzymology is also desirable. The second position is for an individual with expertise in LC/MS and/or GC/MS as applied to small molecule identification and/or quantitation. These studies relate to drug biotransformation in humans and to the isolation, purification, and regulated expression of polymorphic variants of drug-metabolizing enzymes and protein drug targets. These persons would complement a research group with established strengths in molecular biology, analytical chemistry (including GC/MS and LC/MS/MS), enzymology, intermediary metabolism, clinical pharmacology, and mitochondrial diseases. Send correspondence and references to: **Peter W. Stacpoole, Ph.D., M.D., Professor of Medicine, Biochemistry and Molecular Biology, Box 100226, JHMC, Gainesville, FL 32610-0226.**

POSTDOCTORAL POSITION

We seek to fill a Postdoctoral Research position at the Bone and Joint Research Laboratory, Department of Orthopedics, University of Utah School of Medicine. Depending on expertise and interest, the successful candidate may also have a joint academic appointment in the Department of Bioengineering, University of Utah. Salt Lake City is beautiful with a moderate cost of living.

Applicants should have a Doctoral degree in molecular, cell, or tissue engineering or a related discipline; knowledge of basic orthopedic and musculoskeletal science is desirable. A minimum of one to two years of postdoctoral research experience is preferred. Experience in obtaining external funding for high-quality research is desirable. Rank and salary commensurate with experience and record. Position open 1 May 2001. Applications accepted 1 February 2001. Send curriculum vitae, three letters of reference, and reprints of at least two publications to: **Ms. Erin Whitaker or Roy D. Bloebaum, Ph.D., VA Salt Lake City Health Care Systems, Bone and Joint Research Laboratory (151F), 500 Foothill Boulevard, Salt Lake City, UT 84148.**

POSTDOCTORAL POSITIONS MOLECULAR IMMUNOLOGY SIGNALING AND ADHESION

Postdoctoral positions are available to study several novel molecules involved in B and T cell signaling and cytoskeletal regulation. Experience in molecular biology, cellular immunology, and signaling required. Approaches include knockout and transgenic mice, high-speed cell sorting, retroviral gene transduction, and DNA microarray analysis. Send curriculum vitae and references to: **Dr. Kenneth Murphy, Department of Immunology and Pathology, Washington University School of Medicine, Box 8118, 660 South Euclid Avenue, St. Louis, MO 63110. E-mail: murphy@immunology.wustl.edu; website: <http://www.hhml.org/research/investigators/murphy.html>.**

POSTDOCTORAL POSITION is available to investigate the structural basis for chaperoning by α -crystallins/small heat shock proteins. Candidates should have a strong background in proteomics/structural biology and some experience in molecular biology. The salary will be commensurate with experience, and the appointment will be for two years. Send curriculum vitae and names and e-mail addresses of three references to: **Dr. E. C. Abraham, University of Arkansas for Medical Sciences, Slot 516, 4301 West Markham, Little Rock, AR 72205. E-mail: AbrahamedatharaC@exchange.uams.edu. FAX: 501-686-8169. UAMS is a Equal Employment Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

GENOME-ENABLED MICROBIAL ECOLOGY

POSTDOCTORAL POSITIONS available to study the activity of dissimilatory metal-reducing microorganisms and other anaerobes in the subsurface and aquatic sediments using approaches that incorporate recent advances in microbial genomic analysis. Previous experience in molecular analysis of environmental samples preferred. Please e-mail curriculum vitae and names of references to: **Dr. Derek Lovley, Department of Microbiology, University of Massachusetts, Amherst, MA. E-mail: dlovley@microbio.umass.edu. UMass is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS AVAILABLE SLOAN-KETTERING INSTITUTE

Seeking **RESEARCH SCIENTISTS** with or without postdoctoral experience who wish to join a laboratory focused on defining the molecular events underlying myeloid leukemogenesis. Applicants should have considerable interest and expertise in the study of signal transduction pathways; protein-protein interactions; cell cycle analysis; or in *in situ* hybridization, immunohistochemistry, or gene chip/microarray technology. Send a description of your research interests, curriculum vitae, and the names and telephone numbers of three references to: **Dr. Stephen D. Nimer, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, Box 575, New York, NY 10021.**

POSTDOCTORAL POSITIONS available immediately to develop innovative strategies for using peptide nucleic acids and oligonucleotides to investigate cellular processes. Projects offer an exceptional opportunity at the interface of chemistry and biology. Interested candidates should send a letter and curriculum vitae to: **Dr. David Corey, Department of Pharmacology, The University of Texas Southwestern Medical Center at Dallas, Dallas, TX 75390-9041. E-mail: corey@chop.swmed.edu. UT Southwestern is an Equal Opportunity Employer.**

COURSES AND TRAINING

SHORT COURSE ON TIME-RESOLVED FLUORESCENCE SPECTROSCOPY. The Center for Fluorescence Spectroscopy at the University of Maryland School of Medicine is offering a short course on "Principles and Applications of Time-Resolved Fluorescence Spectroscopy" in Baltimore, Maryland, March 19-23, 2001. The course will cover basic and advanced topics in fluorometry, including time- and frequency-domain measurements, and Förster energy transfer. Advanced topics include chemical sensing, imaging, fiber optics, infrared fluorometry, two-photon excitation, instrumentation, confocal and multiphoton microscopy, protein fluorescence, DNA technology, high-throughput screening, metal-ligand probes, lanthanides, and immunoassays. Textbook, course materials, lunches, and refreshments will be provided. For further information, a schedule, and fees, please contact: **Ms. Mary Rosenfeld or Professor J. R. Lakowicz at the CFS, Department of Biochemistry and Molecular Biology, 725 West Lombard Street, Baltimore, MD 21201. Telephone: 410-706-8409; FAX: 410-706-8408; e-mail: cfs@cfs.umbi.umd.edu; website: <http://cfs.umbi.umd.edu>.**

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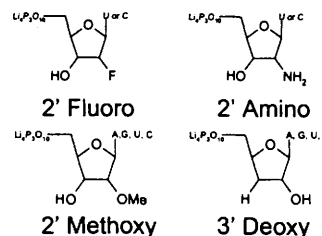
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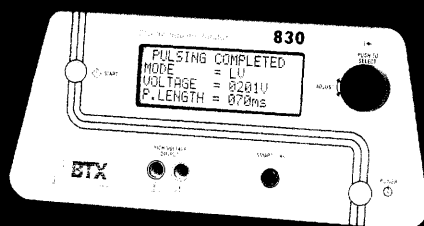
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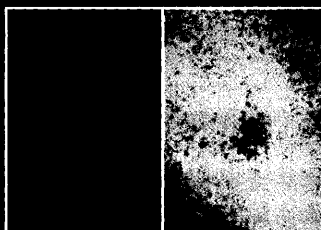
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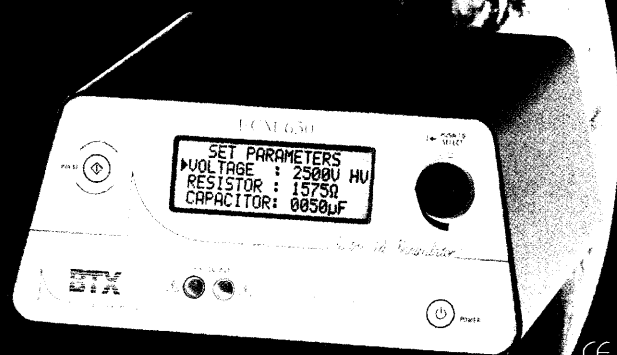
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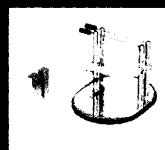
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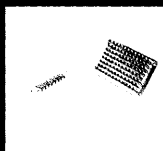
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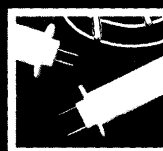
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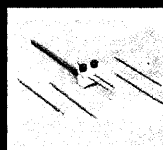


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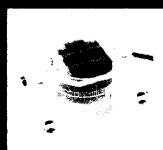


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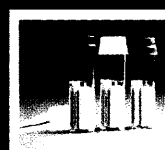
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