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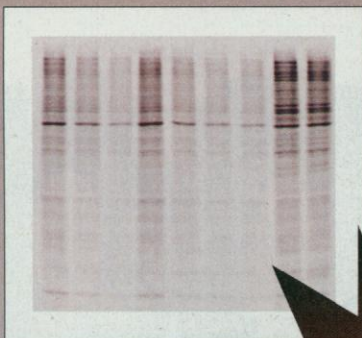
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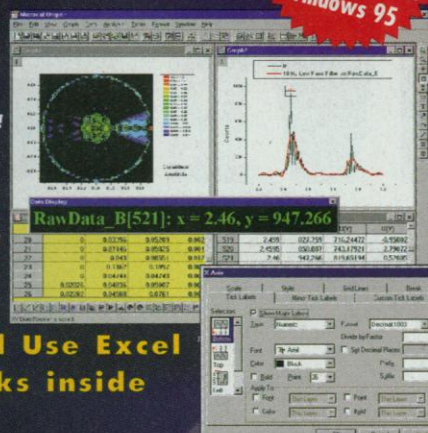
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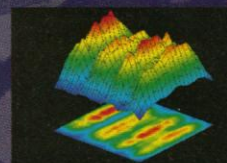
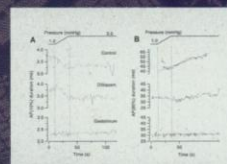


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PC Magazine,
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Gene Profiler version 3.52, software designed for use in the analysis and databasing of one-dimensional gel electrophoresis studies, is a descendant of and replacement for the *RFLPscan* program. The program has a new, improved method for DNA microsatellite analysis, a polymerase chain reaction (PCR)-based technique now widely used in genotyping and genetic linkage analysis. The software has the ability to recognize short tandem repeats and to discriminate automatically between true PCR products and their "stutter" bands, making it much easier for the investigator to identify alleles. It also automatically identifies and flags samples as being in the heterozygous and homozygous states. The

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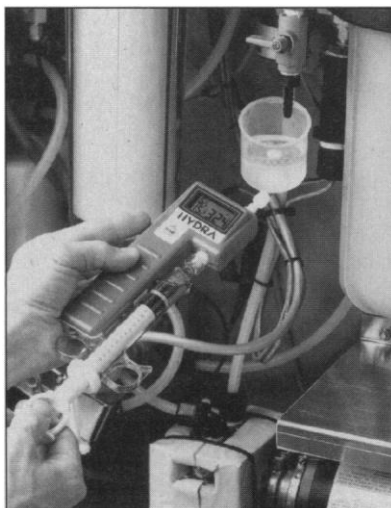
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Automata Instrumentation

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to deal with many sampling situations. The unit weighs less than 8 ounces and features a handheld syringe design. Easy pushbutton calibration takes only seconds.

SPECTROPHOTOMETER FOR FLUORESCENCE APPLICATIONS

The SF2000 is a high-performance spectrophotometry system designed for measuring fluorescence. It comes configured with an excitation source, grating, and optical bench. The instrument features a high-sensitivity miniature fiber optic spectrometer set for 360 to 1000 nm, with a 200 μ m entrance slit for optical resolution to about 10.0 full width at half maximum, and a detec-

Ocean Optics

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tor collection lens for increased light throughput. A card-mounted R-450 Pulsed-Blue light-emitting diode (LED) light source is included, with both the spectrometer and LED installed in the same housing. The LED can be controlled manually or through software, and can run in continuous or pulsed mode.

LITERATURE

Counters for the New Millennium is a 16-page brochure on the MicroBeta Trilux line of liquid scintillation and luminescence counters. The publication covers detector design, sample handling systems, comparative performance with gamma counters, consumables, cassettes, scintillators, filter counting, coated-plate capabilities, and software.

EG&G Wallac

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Innovative PCR Plastics is a 12-page guide to disposable products for polymerase chain reaction (PCR). It describes the CyclePlate-ET PCR plate, a new generation of thin-wall PCR plates designed for oil-free sample processing in high-performance thermal cycling. Redesigned reaction chambers ensure intimate contact with the side walls of the heat block for uniform heat transfer.

Robbins Scientific

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TechNotes is a technical newsletter, a recent issue of which highlights various aspects of RNA isolation, including a new tissue storage buffer (*RNAlater*), RNA isolation kits, methods of cell disruption, RNA storage options, and a summary of products that protect RNA from RNase degradation.

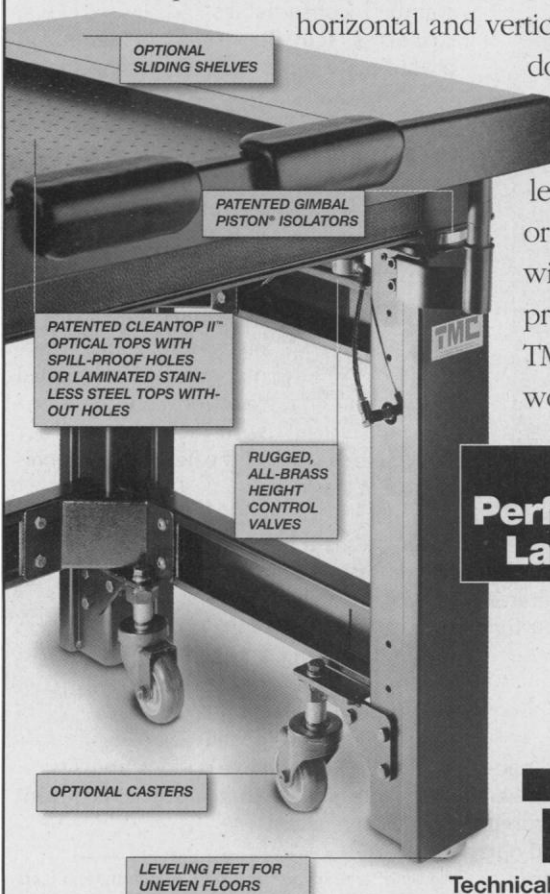
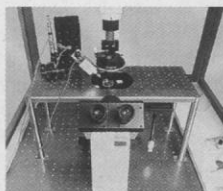
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Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics,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

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POSITIONS OPEN



FACULTY POSITION VISION SCIENCE

A faculty position (**RANK OPEN**) at the University of Alabama at Birmingham (UAB) is available to scientists working in any area of vision research. Candidates must have a Doctoral degree, a productive research program, and, at the more senior levels, a record of extramurally funded research. Salary, space, and start-up funds are competitive with national levels.

UAB is a Carnegie Research I University that offers an excellent research and teaching environment. Vision research is an area of emphasis at UAB with 45 faculty from 11 departments constituting the Vision Science Research Center (VSRC), one of nine university-wide centers. The successful candidate will have access to all VSRC core resources including electronics, computer, machine shop, histology, confocal and multiphoton imaging, and shared ocular tissue facilities. Current VSRC members are active in such areas as neuroscience, cell and molecular biology, biochemistry, structural biology, and participate in various graduate training programs including cellular and molecular biology, neuroscience, and vision science. Research facilities and graduate training are supported, in part, by a long-running National Eye Institute (NEI) CORE grant and by NEI training grants.

Applicants should send a curriculum vitae with names of three references and a statement of research interests to: **Dr. Paul Gamlin, Chair, Faculty Search Committee, Department of Physiological Optics, 626 Worrell Building, University of Alabama at Birmingham, Birmingham, AL 35294-4390. Website: http://spectrum.vsrc.uab.edu.**

UAB is an Equal Opportunity Employer.

FACULTY POSITIONS THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT TYLER

The Biomedical Research Departments at The University of Texas Health Science Center at Tyler seek to fill a number of state-funded faculty positions at all ranks. The Center's Mission focuses on basic and clinical research on heart and lung diseases. Current faculty research interests include infectious diseases of the lung, especially TB, asbestos and environmental-related diseases, inflammatory cell biology, complement biochemistry, coagulation and fibrinolysis, lung fibrosis, regulation of lung-specific gene expression, oncogenes, and RNA structure-function. The research departments are housed in a modern facility equipped with state-of-the-art instrumentation. Start-up funds will be available but successful candidates will be expected to have an externally funded research program. Teaching requirements are minimal. Tyler is situated approximately 100 miles east of the Dallas/Fort Worth metropolitan area amid the beautiful lakes and piney woods of East Texas. The city, with a population of approximately 100,000, is the regional center for the arts, medical care, and finance as well as for higher education. More information can be obtained at **website: www.uthct.edu.**

Interested candidates should submit a current curriculum vitae and a research plan to: **Dr. Mark A. L. Atkinson, Chair of Faculty Search Committee, University of Texas Health Science Center at Tyler, 11937 U.S. Highway 271, Tyler, TX 75708-3154.**

Equal Employment Opportunity/Affirmative Action Employer/ Minorities/Females/Veterans/Disabled. Applications are strongly encouraged from minorities and women.

FACULTY POSITION STRUCTURAL BIOLOGY University of Rochester Medical Center

We invite applications for a tenure-track **ASSISTANT PROFESSOR** position, although a higher-level appointment may be considered. We seek candidates interested in addressing important biological questions using structural techniques, in particular X-ray crystallography. The Department has a well-equipped X-ray diffraction facility, and a competitive start-up package is available (see **website: www.urmc.rochester.edu/smd/bcbp**). Candidates should submit a curriculum vitae, selected reprints, a description of research goals, and three letters of reference to: **Dr. Robert Bambara, Chair, Department of Biochemistry and Biophysics, Box 712, University of Rochester Medical Center, 601 Elmwood Avenue, Rochester, NY 14642.** Review of applications will begin immediately.

POSITIONS OPEN

BIOLOGY FACULTY POSITIONS

Truman State University invites applications for two positions starting August 1999. Teaching and research are mutually supportive activities at Truman; candidates should be strongly committed both to teaching and to developing an active research program involving students.

(1) **ANIMAL PHYSIOLOGIST. TENURE-TRACK ASSISTANT or ASSOCIATE PROFESSOR.** Teaching responsibilities include physiology, rotation through introductory biology courses, and an upper-level course in the candidate's area of expertise. We are especially interested in candidates with research interests in behavioral, comparative, or ecological physiology. Laboratory space and start-up funds will be provided. Search Chair: **Dr. Michael L. Lockhart.**

(2) **POSTDOCTORAL TEACHING position. VISING ASSISTANT PROFESSOR.** This position provides the opportunity to develop as a teacher in a liberal arts and sciences culture. Teaching responsibilities include introductory biology (for majors and/or nonmajors) and possibly an upper-level majors course. There is also the potential for collaborative research. This position is funded for one year, with possible renewal for a second year. Modest funding available for research involving students. Search Chair: **Dr. Steve Carroll.**

Truman is Missouri's only statewide, highly selective, public undergraduate liberal arts and sciences university. *U.S. News and World Report* ranked Truman as the top regional public university in the Midwest for the second consecutive year. We are nationally recognized for our innovative assessment program and commitment to a broad-based liberal arts and sciences education. Students benefit from a university-wide 16:1 student/faculty ratio and the opportunity to work closely with faculty conducting research.

Candidates must possess a Ph.D. or have a targeted completion date by August 1999. Complete applications include a curriculum vitae, statements of teaching philosophy and research goals, all undergraduate and graduate transcripts, and three letters of recommendation. All materials should be sent to the respective Search Chairs at: **Division of Science, Truman State University, Kirksville, MO 63501. Telephone: 660-785-4598; FAX: 660-785-4045.** Completed applications will be reviewed starting February 1, 1999.

Truman is an Equal Employment Opportunity Institution committed to cultural diversity and compliance with the Americans with Disabilities Act.

SENIOR OPENING IN MARINE/AQUATIC BIOLOGY AT FLORIDA ATLANTIC UNIVERSITY

ASSOCIATE or FULL PROFESSOR position in marine/aquatic biology is available in the Division of Science at Florida Atlantic University's Davie Campus. We seek an individual deeply committed to both research and teaching whose particular area of expertise includes freshwater, marine, or estuarine systems. The successful candidate will be expected to contribute to upper-level undergraduate and graduate biology programs allied to the area of specialization, to actively participate in and enhance collaborative projects at the local, state, and federal levels, and to continue to maintain a dynamic extramurally supported research program. The ideal individual will have an exemplary publication record, evidence of sustained funding, and a strong commitment to undergraduate research and education. Preference will be given to individuals whose research provides an ecosystem perspective. The position starts August 1999. Interested scientists should submit a letter of application, curriculum vitae, three (3) letters of recommendation, and five (5) representative publications to: **Dr. Michael R. J. Forstner, Search Committee Chair, Division of Science, Florida Atlantic University, 2912 College Avenue, Davie, FL 33314** by March 15, 1999.

Florida Atlantic University is an Equal Opportunity/Affirmative Action Institution.

The Department of Physics at the University of Illinois at Chicago (UIC) plans to fill one tenure-track **ASSISTANT PROFESSORSHIP** position to begin fall 1999. Our search will give special consideration to candidates in the areas of condensed matter physics and biophysics.

Applicants should submit a curriculum vitae and a statement of research interests and future plans by March 25, 1999. They should also arrange to have three letters of recommendation sent to: **Prof. Inder P. Batra, Head, University of Illinois at Chicago, Department of Physics (MC 273), 845 West Taylor Street, Room 2236, Chicago, IL 60607-7059.** *The University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.*

UNIVERSITY OF CINCINNATI

DIRECTOR DEPARTMENT OF NEUROLOGY UNIVERSITY OF CINCINNATI

(98UC4154) The University of Cincinnati College of Medicine is seeking applicants for the position of Professor and Director (Chair) of the Department of Neurology. The new Director will assume the leadership of a vital, nationally-recognized Department of Neurology with major areas of expertise in stroke, epilepsy, movement disorders and neuromuscular disease. The Department of Neurology has a long tradition of resident and medical student education, research, and clinical service.

We seek an individual who is nationally recognized for his/her contributions to the field of neurology and who has a strong commitment to medical education and research. The candidate should have national recognition in an area of research related to neurology or the neurosciences. It is anticipated that the new Director will play a leadership role in the ongoing expansion of neuroscience at the University of Cincinnati, and is also expected to raise the national stature of the department, which is already within the top 25% in terms of research funding. The candidate should be board certified in Neurology and eligible for medical licensure in the state of Ohio.

Resumes accepted until filled. Inquiries, applications (curriculum vitae), and nominations should be sent to:

David Millhorn, PhD
Professor and Chairman
Department of Molecular & Cellular Physiology
c/o Faculty Affairs
College of Medicine
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ILLINOIS INSTITUTE OF TECHNOLOGY CHICAGO

Director, Pritzker Institute of Medical Engineering

Illinois Institute of Technology (IIT) invites applicants for the position of Director, Pritzker Institute of Medical Engineering. Prof. Robert Arzbaecher is resigning as director in order to devote more time to the development of new degree programs in biomedical engineering at IIT.

The Pritzker Institute is an endowed research center within IIT. Its goal is to bring engineering expertise into the solution of important health problems by forming research partnerships between engineering faculty and graduate students at IIT and physician-scientists at Chicago area medical centers.

The successful candidate will have an established reputation in Biomedical Engineering research and education, and be qualified for an appointment at the rank of Professor is one of IIT's engineering or science departments.

IIT is a private, PhD granting university that offers programs in engineering, science, architecture, law, business, psychology and design. The enrollment of 5000 students is equally divided between undergraduate and graduate. The university is located 10 minutes from downtown Chicago, with its beautiful lake shore, cultural attractions and dynamic economy.

Applicants should send vitae and the names of at least three references to:

Stuart L. Cooper, PhD, VP and
Chief Academic Officer Main Campus
Illinois Institute of Technology
Chicago, IL 60616-3793

IIT is an Equal Opportunity Institution.



THE UNIVERSITY OF MISSOURI-ST. LOUIS AND THE SAINT LOUIS ZOO ANNOUNCE THE E. DESMOND LEE AND FAMILY FUND ENDOWED PROFESSORSHIP IN ZOOLOGICAL STUDIES



The University of Missouri-St. Louis announces the E. Desmond Lee and Family Fund Endowed Professorship in Zoological Studies, a position created to enhance the partnership between the University and the Saint Louis Zoo. The E. Desmond Lee Professor will be a faculty member in the University's Department of Biology and Scientist in Residence at the Zoo. The position comes with an attractive salary, set-up funding, and a research supplement renewed annually from the endowment.

Candidates should merit appointment as Professor, although exceptional Associate Professor candidates will be considered. The successful candidate will have an outstanding research record and a strong and continuing record of extramural funding. Possible research areas include conservation biology, behavioral ecology, and population ecology/genetics. Preference will be given to applicants with a field component to their research program, especially within tropical regions.

The Zoo-Department partnership includes collaboration with the International Center for Tropical Ecology, an eminent institute housed in the Department. The Department of Biology has an outstanding graduate program in ecology, evolution, and systematics that attracts scholars from around the world. The Saint Louis Zoo is a leader in both conservation and research. Its staff is involved in national and international conservation programs, including the IUCN Species Survival Commission.

Application review begins February 15, 1999. The position begins in August 1999, although the appointment can be deferred if necessary. Applications should include a cover letter outlining qualifications and interests, curriculum vitae, a statement of research interests and goals, and the names and addresses of five references. Send applications to Dr. James H. Hunt, Chair, Zoology Search Committee, Department of Biology, University of Missouri-St. Louis, 8001 Natural Bridge Rd., St. Louis, MO 63121. Nominations may be submitted by mail, phone (314-516-6209), FAX (314-516-6233), or e-mail (jrhunt@umsl.edu).

The University of Missouri-St. Louis is an affirmative action, equal opportunity employer committed to excellence through diversity.

MAYO CLINIC ONCOLOGY RESEARCH FACULTY / RESEARCH POSITION

Mayo Clinic invites applications for two full-time career scientist positions at the level of Assistant, Associate, or Full Professor with joint appointments in the Department of Oncology and an appropriate basic science department. Candidates should have an outstanding, NIH-funded research program in basic or translational aspects of cancer chemotherapy. Preference will be given to applicants with interest in the areas of 1) proliferative signaling pathways and their inhibition, 2) DNA repair pathways and their inhibition, and 3) pharmacogenetics/pharmacogenomics of antineoplastic agents. An attractive package of salary, benefits, and research support will be provided. Please send a curriculum vitae and a one-page statement of research interests by March 1, 1999, to:

Scott H. Kaufmann, M.D., Ph.D.
Chair, Search Committee
1301 Guggenheim Building
Mayo Clinic
Rochester, MN 55905

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Growing Excitement

Cereon Genomics' mission is to apply genomics technology to transform agriculture ... making plants hardier, naturally disease and pest-resistant, able to grow in some of the most inhospitable conditions. All to improve the quality and quantity of the world's food supply.

In the past few months, we've taken major steps towards achieving that mission by:

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- Bringing together a team of exceptional professionals at all levels

It is with growing excitement that we realize what we have accomplished ... and what is still left to do. That's why we seek more innovators with a focused sense of urgency and a healthy sense of wonder to join us, keep our impressive momentum going, and make the future of genomics technology happen!



SCIENTISTS - MAPPING

Positions available at all levels in physical and genetic mapping for applications in crop improvement. Requirements include an advanced degree and a strong background in genetics and molecular biology. Experience in library construction, mapping, and/or polymorph detection is desirable.

SCIENTISTS FUNCTIONAL GENOMICS

Put your proven expertise and experience to excellent use in building Cereon's plant and microbial gene identification and function effort for agriculturally relevant microorganisms and plants. Some positions are oriented towards a molecular understanding of gene functions, biochemical pathways and enzymatic mechanisms. Others deal within identifications of quantitative trait loci. All positions require a Ph.D. or equivalent in Genetics, Microbiology, Biochemistry, Plant Biology, or related field. 2 - 3 years of postdoctoral training are essential, as are excellent communication and interpersonal skills, plus the ability to work well as part of an interdisciplinary research team. Plant or Microbial experience is desirable.

DEVELOPMENTAL GENETICS

Positions available at all levels to work on understanding and manipulating various aspects of plant reproduction, including meiosis. Requires a strong background in developmental genetics and/or the genetics of meiosis/mitosis. Plant experience desirable.

LIBRARY CONSTRUCTION

Several openings exist for BS/MS or Ph.D. - level scientists with extensive, hands-on molecular biology experience and demonstrated competence in one or more of the following: BAC, PAC, YAC, Cosmid, lambda, small insert genomic, or cDNA library construction. A solid background in genetics, biochemistry, or related discipline preferred.

RESEARCH ASSISTANTS/ASSOCIATES

Our advanced genomics research efforts are creating an on-going need for Scientists to play an important discovery role. Right now, we have multiple opportunities in the following areas:

FUNCTIONAL GENOMICS : Focus on either identification of quantitative trait loci or molecular understanding of gene function.

LIBRARY CONSTRUCTION : Deal with BAC, PAC, YAC, cDNA library construction and related techniques.

Most positions require a BS/MS, plus 2 - 5 years of experience. Highly motivated recent graduates are also encouraged to apply for select entry-level positions. Important areas of knowledge/experience include: molecular biology, nucleic acid chemistry, genetic mapping, mutant analysis, biochemistry, and computer equipment.

Please send your resume, indicating position of interest, to:

Joan Curtice, Cereon Genomics, LLC,
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Protein Chemistry Staff Scientist

Come be part of DuPont Pharmaceuticals Company's commitment to a healthier future. We are focused on meeting unmet medical needs through the discovery and development of innovative compounds leading to novel pharmaceuticals.

The ideal candidate will have a BS/MS in biochemistry or related field and 1-3 years experience in protein expression analysis and/or protein purification and characterization. You should also have experience with basic chromatographic and electrophoretic methodology, Western and ELISA analysis, and analytical HPLC.

DuPont Pharmaceuticals Company offers a competitive salary and generous benefits package, including 401k as well as excellent working conditions and challenging assignments. Please send a letter of introduction, resume and 1-2 page research summary to: Human Resources-RW-S199, DuPont Pharmaceuticals Company, E400/2413, P.O. Box 80400, Wilmington, DE 19880-0400. An equal opportunity employer M/F/D/V.



DuPont Pharmaceuticals Company



DARWIN FELLOW

UMass Amherst announces a post-doctoral research lectureship in organismic and evolutionary biology. More than 75 faculty members in 10 departments are committed to the study of organismic and evolutionary biology, offering unique training and research opportunities for recent PhD's. Our two-year lecture/research position allows independent research with a faculty member and experience developing and teaching a one-semester undergraduate course in ecology. Position subject to availability of funds. 1st year salary: \$27,500, 2nd year salary: \$32,500. To apply, send: CV; 3 letters of reference; statements of research and teaching interests; and letter of support from your proposed UMass faculty sponsor. E-mail darwin@bio.umass.edu or call 413-545-0928 for a list of faculty research interests and more information. Send materials to:

Darwin Fellowship

OEB/Morrill Science Center

*University of Massachusetts Amherst
Amherst, MA 01003-5810*

Application review begins: 2/15/99.

Position remains open until successful candidate is selected. Start date: 9/1/99.

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

Postdoctoral Opportunities

Mount Sinai School of Medicine prides itself on the strides that it makes in research. We owe our successes to the union of true talent and remarkable resources. We have the following opportunities for experienced research professionals:

**Mount
Sinai**

Postdoctoral Fellow/ Research Associate APP and Presenilins

Study the expression, function and metabolism of APP and Presenilins in transgenic mice and neuronal cell lines (APP and Presenilins play an important role in Alzheimer's neurodegeneration). Experience in Molecular Biology and/or Protein Biochemistry is required. **Reply to: Dr. N. K. Robakis, Department of Psychiatry and Fishberg Research Center for Neurobiology, Box 1229.**

Postdoctoral Research Associate Amyloid Diseases and Cryoglobulinemia

Join an established laboratory with a primary interest in the Amyloid diseases and Cryoglobulinemia. The successful candidate, who will assume an independent role in the design, execution and interpretation of experimental work, will utilize a variety of molecular and biochemical techniques including hybridization and blotting, isolation of proteins and peptides, and sequence analysis. The qualified candidate should possess a Ph.D. in Molecular Biology, Biochemistry, Pathology or Microbiology with prior postdoctoral experience. **Reply to: Peter D. Gorevic, M.D., Department of Medicine, Box 1244. Fax: 212-849-2652.**

We offer a salary commensurate with experience and excellent benefits. For consideration, please send your C.V. and names of three references, indicating "Reply to" information for your position of interest, to: **Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.** Visit our website at: www.careermosaic.com/mountsinai We are an equal opportunity employer fostering diversity in the workplace.

Mount Sinai School of Medicine

PRE- & POSTDOCTORAL TRAINING IN MAMMALIAN GENETICS

The Jackson Laboratory, a non-profit research center, provides a unique research environment with unparalleled resources for training animal models of development & disease.

Areas of expertise include:

Cancer, Developmental Biology/Aging,
Genetics of Complex Traits, Genomics,
Immunology/Hematology,
Metabolic Diseases, Neurobiology,
Bioinformatics/Statistical Genetics
Cryopreservation/Assisted
Reproduction

Letters of application should include: curriculum vitae, statement of research interests, list of publications, and names of three references. Predoctoral program is in conjunction with the University of Maine and is limited to US citizens or permanent residents.

To apply contact: Suzanne Serreze, The Jackson Laboratory, 600 Main Street, Bar Harbor, ME 04609 Phone: 207-288-6420; FAX: 207-288-6079; e-mail sbs@jax.org; <http://www.jax.org>
EO/AA Employer



Pioneer Hi-bred International, Inc.

An Equal Opportunity Employer

Genomics and Genetic Gain

We are seeking several outstanding individuals with an enthusiasm for applying computational or mathematical approaches to address complex and commercially important biological problems. Using genome-wide gene expression profiling technologies, we are attempting to understand the molecular basis of hybrid vigor and genetic gains in hybrid maize yield made through plant breeding. The group is also focusing on identification of gene expression patterns associated with complex agronomic traits in maize.

Research Manager, Computational Biology (Job #SCI-CB)

Pioneer seeks an individual familiar with data mining approaches and knowledge discovery tools to identify and model associations between gene expression patterns, genotypes, phenotypes, and the environment to join our Computational Biology group. Demonstrated experience in exploratory data analysis, predictive data mining, modeling of complex systems, and multidimensional data visualization is required. A solid background in KDD (Knowledge Discovery in Databases), machine learning, multivariate statistics, and database architecture would be advantageous. Familiarity with UNIX, Windows 95 or NT operating environments, and application development using Perl, JAVA, C/C++, and CGI programming languages is desirable. A M.S. or Ph. D. in Computational Science, Applied Mathematics, or relevant related field of study with some coursework in Genetics or Biology is preferred.

Research Manager, Genetic Gain Analysis (Job #98427B)

The primary responsibility will be to identify maize genes or patterns of expression that have been targets of selection during 70 years of intensive breeding for hybrid yield. The successful candidate will conduct and analyze genome-wide RNA expression profiling experiments using DNA microarrays or technology developed by our collaborators at CuraGen. Prior experience with basic molecular biology techniques, especially plant RNA extraction and analysis, and an enthusiasm for discovering genes or gene expression relationships using computational analysis of genome-wide expression data will be necessary. Some background in plant breeding, agronomy, quantitative genetic analysis or phylogenetics would be preferred. Prior experience in a genomics group working with high-throughput techniques and robotics equipment would be highly desirable. Demonstrated skills in organizing and pre-processing of large complex data sets prior to statistical or graphical analysis and any background in computer programming or modeling would be viewed favorably. A Ph. D. in any area of biology with training in statistics and molecular, evolutionary or quantitative genetics is preferred.

Senior Research Associate, RNA Expression Profiling (Job #98381B)

For this position, we are seeking an enthusiastic and highly motivated individual to enhance our RNA expression profiling effort using microarray technology. Experience with advanced PCR techniques, robotics and high-throughput molecular analysis will be necessary, and a good foundation in molecular or quantitative genetics would be viewed favorably. Prior experience or familiarity with DNA microarray technology would be highly desirable. Computational skills should include familiarity with advanced sequence analysis and statistical software. A M.S. or higher degree in Biology or Engineering with 2 years of relevant experience will be necessary. Applicants with experience in non-plant systems are especially encouraged to apply.

Senior Research Associate, Protein Expression Profiling (Job #98366B)

For this position, we need an enthusiastic, creative, and independent individual to work on protein expression profiling methods both in-house and through collaboration with Oxford GlycoSciences. Extensive experience in protein biochemistry and purification, chromatographic and spectroscopic methods, and the analysis of chromatograms or spectra by chemometric methods is essential. Prior experience with mass spectroscopy of proteins will also be necessary. Computational skills should include the ability to apply statistical techniques and visualization methods to complex data sets. Applicants with a M.S. or higher degree in Biochemistry, Analytical Chemistry, or a related field, and at least 2 years of relevant experience are encouraged to apply.

Seed Metabolism Research Scientist (Job #98424B)

The successful candidate will be part of the Feed Improvement group at Pioneer Hi-Bred Int'l Inc., a dynamic, industry-leading research collaboration with DuPont Agricultural Products to improve grain for feed. This position will develop novel transgene-based strategies to alter the metabolism of developing seed. Requirements include at least two years of postdoctoral experience in biological sciences with a strong background in metabolism, molecular biology, genetics and biochemistry. Research experience in seed-related research is a plus. The ability to effectively function as part of a team is essential. Pioneer Hi-Bred Int'l Inc. offers state-of-the-art genomics, expression analysis and analytical facilities to support gene discovery research.

Senior Research Associate (Job #98407B)

We seek a highly motivated individual to join the Quality Traits group and further its gene expression goals by the isolation and characterization of novel promoters. The successful candidate will have demonstrated knowledge and skills in principles of gene expression in plants, solid molecular biology skills (e.g., PCR, cloning, isolation of DNA and RNA from a variety of plant tissues, library construction, Northern and Southern blot analysis) and experience in the quantitative analysis of reporter gene expression in transgenic plants. Specific experience in the identification, isolation and characterization of promoters is highly desired. Extremely strong computer skills are imperative: molecular biology software (Vector NTI, GCG, Sequencher, etc.) Access database, spreadsheets, PowerPoint, and Word. Also required are good attention to detail, strong organizational skills, demonstrated ability to handle multiple projects simultaneously, and the ability to work and communicate effectively with a variety of researchers across project and discipline areas. This position requires at minimum an MS degree in a relevant field plus 5 years of directly related lab experience.

Research Manager (Job #98428S)

Our Genomics group is seeking a highly motivated individual to provide management and scientific leadership in the area of expression profiling. This individual will be responsible for scouting, evaluating and implementing new technologies to support ongoing product development efforts. The successful candidate will have a Ph.D. in any biological science and demonstrated expertise in modern molecular biology techniques, especially as they relate to understanding gene expression. Good communication and organizational skills are essential, as is the ability to work well with people from diverse business units. Experience with high throughput sample processing and robotics is desirable. An enthusiasm for technology innovation and implementation is necessary. Strong skills in data management and analysis are preferred. Candidates with non-plant backgrounds are especially encouraged to apply.

Please submit your curriculum vitae in scannable format, along with references to: Pioneer Hi-Bred International, Inc. ATTN: Human Resources - Research (please reference job number), PO Box 1004, Johnston, IA 50131-1004; e-mail: jobsresearch@phibred.com , For more information on these positions visit our website www.pioneer.com.

Research Associate Positions at the Stanford Human Genome Center

Stanford Human Genome Center is building high resolution maps and sequencing as part of the Human Genome Project. We have openings for 3 Research Associates to serve as subproject leaders in sequencing or mapping. All these positions offer the opportunity to contribute to this international effort, to direct a high throughput production group, and to direct and participate in projects to develop and implement new techniques and research strategies. These positions report directly to the Center's Directors and involve significant programmatic and supervisory responsibilities.

Sequencing Library Construction Project Leader

Will direct the group building libraries from BAC clones for sequencing. This position will involve improving library preparation protocols, constructing and testing new vectors, and monitoring ongoing library construction success to support our high throughput sequencing effort. You will work closely with both the BAC contig and production sequencing project leaders.

Sequencing Finishing Project Leader

Will direct the group finishing sequence of BAC clones, after shotgun sequencing. This will involve significant informatics to analyze assemblies and devise strategies for efficient closure of gaps and single stranded regions in sequence assemblies. You will work closely with the production sequencing and sequencing informatics project leaders.

Radiation Hybrid Mapping Project Leader

Will direct the group developing STSs for building high resolution maps of the human genome. You will direct an in-house oligo synthesis facility, a high throughput marker development and chromosomal assignment group, monitor data quality, direct the technology development, and coordinate STS design and dbSTS data releases. You will work closely with SNP discovery and radiation hybrid mapping project leaders in the mapping group.

A Ph.D. in Genetics, Molecular Biology or a related discipline, plus post-doctoral experience is required; supervisory experience is preferred. Experience relevant to the project and computer fluency are also required. For all positions familiarity with informatics tools is a definite asset.

To apply, send a cover letter, curriculum vita, and the names of at least 3 references to Richard M. Myers (for first 2 positions, myers@shgc.stanford.edu) or David R. Cox (for third position, cox@shgc.stanford.edu), Department of Genetics, Stanford University School of Medicine, Stanford, CA 94305-5120. <http://www.shgc.stanford.edu>. Stanford University is an AA/EOE employer.

Stanford University



Faculty Position Section of Orthopaedic Surgery and Rehabilitation Medicine The University of Chicago

The Section of Orthopaedic Surgery and Rehabilitation Medicine invites applications for a faculty position at the Assistant, Associate, or Professor level in molecular oncology (tenure-track or Clinical Scholar appointment). The successful candidate will conduct independent research in the molecular analysis of bone tumors, sarcomas, or bone metastasis. Applicants should possess a Ph.D. or M.D. degree. Generous start-up funds are available. Applicants must have a demonstrated ability to develop an independently funded research program of the highest caliber. Strengths of the University community include outstanding programs in orthopaedic oncology, molecular oncology, cancer genetics, and molecular cytogenetics.

Please submit a curriculum vitae, a statement of professional goals and research interests, and the names of three references to:

Michael A. Simon, M.D.
Section of Orthopaedic Surgery
and Rehabilitation Medicine
The University of Chicago
5841 S. Maryland Ave., MC3079
Chicago, IL 60637

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

DIRECTOR BIO-IMAGING FACILITY

The Rockefeller University is conducting an active search for a Director for its new Bio-Imaging Facility. Responsibilities include general management of the shared facility and its employees, maintenance of microscopes, computers, and software, interfacing with users for education, instruction, and consultation, evaluation of future imaging needs, and acquisition of advanced equipment. Collaborative research efforts with RU faculty are encouraged.

Applicants should have a Ph.D. in Biology and extensive experience in the use of microscopy of biological materials including fluorescence microscopy, confocal microscopy, deconvolution techniques, vital cell imaging, and electron microscopy. Previous experience managing a microscopy center is preferred.

We offer an excellent benefits package and a competitive salary. For immediate consideration, please send CV, bibliography, and referees to: **The Rockefeller University, 1230 York Avenue, Box 125, New York, NY 10021; Fax: (212) 327-8699.**



The Rockefeller University is an Affirmative Action/Equal Opportunity Employer. Further information about the research and educational programs of the Rockefeller University can be found on the internet at www.rockefeller.edu.



THE R.W. JOHNSON PHARMACEUTICAL RESEARCH INSTITUTE

At Johnson & Johnson, we value life. That's why we're committed to meeting our customers' needs by providing the highest quality products and services. We've achieved these goals with advanced technological resources and the dedicated individuals that make up our work force. The result is a company which has revolutionized the health care industry - and will continue to do so throughout the next century and beyond.

At the La Jolla, California site, Drug Discovery research teams focus on state-of-the-art techniques in cellular and molecular biology to identify novel therapeutic approaches for unmet medical needs. A key to the team's approach is to utilize the latest hardware and software technology to analyze genomic sequence data from both public and private efforts to sequence the human genome. **The following opportunities are available in La Jolla, California.**

Application Project Manager

You will lead application support development for both Bioinformatics and Chemistry programs. This will entail managing projects through the software development cycle (analysis, design, code, implementation, maintenance and support), supervising on-site technical support consultants, coordinating purchased custom development activities of software suppliers, and managing the integration of third-party tools. You'll also complete system documentation/project deliverables and ensure the timely resolution of database, application and integration problems.

To qualify, you must have a Master's degree in Computer Science, at least 10 years' experience with leadership responsibilities in system development/implementation of application development, as well as a background in project management/software (PMI certification a plus). A strong knowledge of formal SDLC methodology, data modeling, process modeling, systems design, NT and UNIX WEB/HTML application environments, client server, and Internet technologies is essential. Experience with relational databases (Oracle and MS SQL preferred) and in the pharmaceutical industry, preferably in Drug Discovery, Bioinformatics or Chemistry are a must. Excellent negotiating, analytical, estimating and scheduling skills are required.

Application Technology Architect

As you direct/evaluate application technology and architecture components to support the bioinformatics and development groups, you will interact with the project manager, teams and end users. Responsibilities include understanding business objectives/processes, defining requirements and the functional definition of systems, and overseeing application development tools, coding, and configuration management standards. You'll also liaise with the engineering, desktop and application groups to build strong technical designs, and design data maps of data models/dictionary, standards and logical database methodologies.

Applicants must have a MS in Computer Science, a minimum of 8 years' experience, and solid analysis, design, construction and applications development skills. In-depth knowledge of formal SDLC methodology, data modeling, process modeling, programming, configuration management, NT and UNIX WEB/HTML application environments client server and Internet

technologies is essential. Expertise in Perl, C++, Java, VB, relational databases (Oracle and NT SQL preferred) and an understanding of OO Technology are required. The ability to rapidly assimilate and apply technologies in database, web and application development, as well as a background in the pharmaceutical industry, preferably in Drug Discovery, Bioinformatics or Chemistry are a must.

Bioinformatics Data Architect

You will design/maintain an enterprise-wide data map of models and dictionaries. This will entail building and integrating databases for applications such as differential gene expression, genome comparison, sequence annotation/mining, as well as working with developers to design consistent user interfaces across applications. You'll also provide project leaders/clients with technical assistance on logical database design for integration across business units, and develop a transformation strategy (sources, extraction and conversion) for warehouse/mining initiatives.

Candidates must have an MS or equivalent in Computer Science and 7+ years' hands-on experience in relational and object-oriented database design/development of biological databases. Experience in ORACLE, MS-SQL, data modeling, and repository software tools such as ERWIN and BPWIN in both UNIX and NT environment is essential. Programming experience in C++, Java and Perl is also required. Must have an in-depth understanding of the data associated with genomics, bioinformatics and molecular biology.

Ranked consistently by *FORTUNE* as one of "America's Most Admired Companies" and by *Working Mother* as one of the "100 Best Companies for Working Mothers," Johnson & Johnson offers competitive salaries and a full array of benefits, including medical/dental, 401(k) and pension plans, and a comprehensive wellness program.

Interested candidates should email resume with salary requirement to: jbroussa@prius.jnj.com, fax: 619-450-2008, or mail: **RW Johnson PRI, Attn: Human Resources, 3535 General Atomics Court, Suite 100, San Diego, CA 92121**. We are an equal opportunity employer. m/f/l/d/v, committed to diversity in the workplace.

Johnson & Johnson

Cell Biology

HUMAN GENOME SCIENCES

A Human Form of Medicine

Human Genome Sciences (HGS) founded the genomics sector of the pharmaceutical industry five years ago and we continue to blaze new trails. HGS leads the industry in the discovery of human and microbial genes, as well as in determining the functional biology and medical utility of the genes that we have discovered. HGS believes that the company has discovered at least one copy of more than 95% of all human genes and that we have a full-length cDNA capable of encoding a functional protein corresponding to more than 75% of human genes. HGS is also the first company to move from concept to clinic using the genomics paradigm. HGS has now initiated three clinical trials of novel human proteins. The company continues to make significant progress in the identification and development of additional therapeutic proteins and drug targets to address significant unmet medical needs. This new drug discovery paradigm holds exceptional career challenge for world-class scientists who share our vision of the future. Consider the following:

CELL BIOLOGY SCIENTISTS

Individuals will initiate, direct and execute scientific research activities with research staff on projects. This includes developing innovative approaches to test novel protein therapeutics in vitro and in vivo models, writing and reviewing manuscripts for publication, and making internal/external presentations. A Ph.D./M.D. in scientific discipline with 5+ years of postgraduate experience is required. Candidates must have demonstrated technical expertise in one or more of the following areas: (a) cellular immunology with focus on T-cell biology, antigen presentation, signal transduction, autoimmunity; or (b) cell migration and adhesion, and an interest in any of the following: stem cell biology, hematopoiesis, lymphocyte trafficking, chemotaxis or cancer; or (c) tumor biology or immunology. Job code: **JG 1/15**

HGS encourages the pursuit of academic excellence and offers a competitive benefits package, including educational reimbursement, subsidized health club membership, and a 401(k) with employer match. Look for us on the Internet at www.hgsi.com for additional information. For immediate consideration, please send/fax your resume to **Human Resources Department, Human Genome Sciences, Inc., Job Code #, 9410 Key West Avenue, Rockville, MD 20850; FAX: (301) 309-1845.**

Our preferred method for receiving resumes is via our Web page.

EOE, M/F/D/V.

Visit our Web site to learn more about us: <http://www.hgsi.com>



ANNOUNCEMENT

Funding Opportunities

James S. McDonnell Foundation Programs and McDonnell-Pew Program in Cognitive Neuroscience

1999 guidelines for applying to James S. McDonnell Foundation programs and for the McDonnell-Pew Program in Cognitive Neuroscience are available at:

www.jsmf.org

Specific Programs:

The McDonnell-Pew Program in Cognitive Neuroscience

Cognitive Studies for Educational Practice (CSEP)

Cognitive Rehabilitation Program

Brain Cancer Research Program

The Initiative to Support Collaborative Research in Eastern Europe

If you do not have access to the World Wide Web, you can request copies of program guidelines by emailing info@jsmf.org. Please identify the program of interest.

All information requests for the McDonnell-Pew Cognitive Neuroscience Program should be directed to the James S. McDonnell Foundation. General information about the Pew Charitable Trusts, a joint sponsor of the McDonnell-Pew Program in Cognitive Neuroscience, is available at www.pewtrusts.com

GRANT

NEUROSCIENCE

THE EJLB FOUNDATION SCHOLAR RESEARCH PROGRAMME

The EJLB Foundation awards each year up to seven (7) grants for research projects in all areas of neuroscience that pertain directly or indirectly to schizophrenia and mental diseases. Specific areas of support in the past have included: developmental neurobiology, synaptic mechanisms, systems and cognitive neuroscience, and clinical studies on the genetic and physiopathologic aspects of neurological and psychiatric disorders.

Eligibility for such grants is restricted to young scientists who are pursuing an independent research career and have given evidence of having significant potential. It is also a requirement that these scientists (i) have earned an MD and/or a Ph.D. degree; (ii) have completed their post-graduate training; and (iii) have been admitted after **June 15, 1994** as faculty members of a leading university, or an affiliated non-profit research centre, in Canada or elsewhere in the world.

Each grant is of CAN\$300,000, is disbursed over three (3) years and is non-renewable.

The next closing date for receipt of letters of intent is **May 3, 1999**.

Full details regarding this programme and required letter of intent forms may be obtained from:

The EJLB Foundation
1350 Sherbrooke Street West – Suite 1050
Montréal, Québec
CANADA H3G 1J1.
Fax (for inquiries only) 514-843-4080.

XYRIS Corporation

Exciting Careers in Agricultural Biotechnology

XYRIS Corporation is a newly founded agricultural biotechnology company dedicated to the discovery and utilization of novel plant genes for the production of agronomically important traits in major crop species and to the discovery of novel therapeutic compounds for applications in animal health. We are currently hiring a world-class research staff, and we are seeking highly talented, motivated and creative individuals for research positions at all levels. Applicants should provide evidence of technical expertise and productivity in one or more areas of plant molecular biology, molecular genetics, molecular physiology, biochemistry, and cell biology. Individuals with demonstrable success in using genetic model systems (animal, plant or fungal) to study signal transduction, gene regulation and expression and/or disease pathogens or pests are especially encouraged to apply.

XYRIS has obtained an exclusive worldwide license to the broad biotechnology platform of Axys Pharmaceuticals, Inc. for agricultural applications. These technologies include structural and functional genomics, bioinformatics, structural biology, combinatorial chemistry, and robotic high-throughput systems. We are also acquiring a number of additional technologies necessary for the achievement of our goals in genetic engineering. Members of our scientific advisory board include **Roger Beachy** (Donald Danforth Plant Science Center), **Ethan Signer** (MIT), **Richard Michelmore** (UC, Davis), and **Carlos Barbas**. For more information please visit our web site (<http://www.xyriscor.com>).

XYRIS has **immediate openings** and offers a competitive package of compensation, health benefits, and retirement plan (401K). We are located only minutes from the Pacific Ocean in "Biotech Beach" near the Scripps Research Institute, Salk Institute, UCSD, and proposed Novartis Agricultural Discovery Institute. CVs containing research interests and three references should be sent by fax (619 794-5525), or regular mail to **XYRIS Corporation, Attn: Human Resources, 12626 High Bluff Drive, Suite 250, San Diego, CA 92130**.

Join Us on Our Pathway

Exelixis Pharmaceuticals, Inc. is a rapidly growing, well-funded private biotechnology company located in the San Francisco Bay Area.

to Discovery!



*Our mission is to identify novel therapeutic targets for drug discovery by elucidating the biochemical pathways involved in human diseases. Our current research programs are focused on metabolic disorders, neurodegenerative diseases, and cancer. We use a combination of invertebrate genetics (*C. elegans* and *Drosophila*), genomics, informatics, and vertebrate biology to identify key molecules in the pathways contributing to these disease states. Exelixis is also committed to developing new approaches to the control of agricultural pest species, and we are applying our core technology to the discovery of specific targets for crop protection and animal health. We are seeking highly motivated individuals with knowledge and interest in the following disciplines:*

***C. elegans* Genetics/Molecular Biology**

Three positions are available for all levels to study human disease-related signal transduction pathways. Ph.D. candidates with a strong publication record and 2+ years of *C. elegans* lab experience preferred. (Job# JK-S015) One position is open in our *C. elegans* technology group. Ph.D. or candidates with 3+ years of *C. elegans* experience preferred. You will focus on developing methods for high throughput reverse genetics approaches to mutation identification and rapid cloning. Strong molecular biology experience is essential. (Job# JK-S014) One position is open to utilize *C. elegans* genetics to identify mechanisms of pharmaceutical drug action. Candidates with an in-depth understanding of *C. elegans* phenotypes and genetic pathways preferred. (Job# JK-S016)

***Drosophila* Genetics/Molecular Biology**

Two positions are available. You will investigate disease-related signal transduction pathways in *Drosophila*. One position requires a Ph.D. with at least 4 years of experience in a *Drosophila* lab, expert genetic and molecular biology skills, and a strong publication record. (Job# CK-S011) The other position requires a BS or MS with 3+ years of experience in the genetic manipulation of *Drosophila* and basic molecular biology skills. (Job# CK-S010)

Assay Development

Requires a Ph.D. with at least 4 years of postdoc experience in biochemistry or molecular/cellular biology. Extensive experience in the development of research assays measuring protein-drug interactions and adaptation of assays to high throughput screening of chemical libraries is required. (Job# JW-S016)

Drug Target Characterization/Assay Development

Requires a recent Ph.D. or equivalent in biochemistry, molecular or cellular biology. You will join a research team to determine activities of broad classes of potential protein drug targets. Experience in the molecular and cellular biology of receptors, ion channels, enzymes, and transporters is preferred. (Job# JW-S018)

DNA Sequencing

Requires a Ph.D. or MS/BS with supervisory experience. You will supervise daily operations at a high throughput sequencing lab while participating in all aspects of the process. Familiarity with sequence assembly software, automation, and troubleshooting a plus. (Job# CS-S038)

Computational Biologist

Requires a Ph.D. or MS in Computer Science or Molecular Biology. You will be responsible for data mining, sequence analysis, structure-function characterization, and tool development. You will also serve as a multi-disciplinary team member in the above mentioned program areas. (Job# CB-S027)

Applications Programmer and/or Database Administrator

Requires an MS/BS in Computer Science and 2+ years of programming experience. You will be responsible for the design, development, maintenance, and support of software tools and/or databases for archiving/analyzing genomic data. (Job# CB-S037)

Gene Discovery/Oncology/Neurodegenerative Diseases

Two positions are available. Both require a recent Ph.D. or BS/MS with 5 years of relevant experience and extensive training in gene identification by large-scale genomics approaches, in particular, positional cloning, genomic sequencing, computational sequence analysis, and mutation detection. The ability to manage large projects independently and in-depth knowledge of disease areas are preferred. (Job# KS-S023)

Genomics Technology

Requires a recent Ph.D. or BS/MS, excellent molecular biology and genomics skills, and experience with cDNA library construction, analysis, and mapping of transcribed sequences. (Job# KS-S024)

We offer attractive salaries & benefits, generous equity participation, and a stimulating, highly interactive research setting that recognizes and rewards achievement. More information about Exelixis and these positions can be found on our web site (www.exelixis.com). Please forward resumes (with reference to the applicable job code) to:

Exelixis Pharmaceuticals, Inc., Attn: HR Dept., (Job# ____), 260 Littlefield Avenue, South San Francisco, CA 94080; Fax: (650) 825-4240; Email: careers@exelixis.com. Equal Opportunity Employer



www.exelixis.com

Post Doctoral Fellowships

Immunex Corporation

Immunex

Immunex Corporation has several Post Doctoral Fellowships opening in 1999 in the following established programs:

**Molecular Biology
Genomics
Transgenics and Gene Targeting
Immunology
Cell Biology
Biochemistry
Protein Chemistry
Proteomics
Bioinformatics**

Immunex research is directed at identifying and characterizing novel molecules critical in the function of cells within the immune system.

Innovative cloning and bioinformatic approaches are used to identify genes from mammalian and viral genomes that encode cytoplasmic, membrane and soluble regulators of cellular communication.

Immunological, cell biological and genetic techniques are used to understand the activity of these gene products *in vitro* and their function *in vivo*. Substantial effort is devoted to the study of infectious disease, inflammation, and immune regulation with the goal of developing novel therapies for human disease. Examples of current research interests can be found at www.immunex.com.

Immunex offers a collaborative and supportive team environment. Post doctoral fellows receive a competitive salary and full benefits package. Interested candidates are encouraged to visit our Web site for more information, and send a cover letter and CV to:

Immunex Corporation
Attn: Brenda Mueller, Human Resources
51 University Street
Seattle, WA 98101
Fax: 206-623-4572

Equal Opportunity Employer



The field of pharmaceuticals and healthcare is more rewarding than ever as new products create a healthier world population. As one of the leaders in the dynamic industry, Pfizer Inc, a Fortune 50 company, is committed to continuing its remarkable growth. Join us, and bring science to life.

COORDINATOR/SENIOR COORDINATOR, CLINICAL INFORMATION SYSTEMS

GROTON, CT

The Animal Health Group has an opportunity for a qualified individual to manage a regulatory dossier production and administrative services group. You will plan, develop and manage strategies, including systems, procedures and technologies that will facilitate and enhance the production, presentation, review and approval of new animal drug submissions. BS in Science/Arts with a minimum of 5 years of experience, including supervisory experience, is required; MS degree preferred. Must possess the ability to effectively deal with Regulatory Agencies, all levels of the AHG worldwide and other Central Research groups, excellent communication and interpersonal skills, a commitment to quality and a team-oriented approach. Extensive knowledge of MS Applications (Word/Excel/PowerPoint) and Adobe Acrobat Suite essential.

Pfizer offers competitive salaries and benefits, as well as growth potential and easy access to major Northeast cities and the Connecticut coast. Please send your resume in confidence to: Pfizer Inc, Job Code #3007, Imaging Services, 235 East 42nd Street 4-42, New York, NY 10017-5755. As an Equal Opportunity Employer, Pfizer is focused on building a diverse workforce.



LIFE IS OUR LIFE'S WORK.

RESEARCH ASSOCIATE / RESEARCH ASSISTANT PROFESSOR

A senior-level research position is available to join a laboratory interested in the relationship of extracellular matrix to cell growth and motility. The candidate will participate in, and help direct, a project to study the role of fibronectin matrix assembly in cancer progression. The candidate should have an M.D. or Ph.D. degree as well as significant post-doctoral experience with *in vivo* models of tumor growth and metastasis. Qualified candidates are eligible for a faculty level appointment in the Department of Physiology and Cell Biology. Applicants should submit a current curriculum vitae with names of three references to: **Ms. Sarah Perrotte, Administrative Assistant, Cell & Molecular Biology IRG (Mailcode 165), Albany Medical College, 47 New Scotland Avenue, Albany, NY 12208.** Albany Medical College is an Affirmative Action/Equal Opportunity Employer.

**National Cancer Institute
National Institutes of Health**

**Program Director
Comprehensive Minority Biomedical Program**

CA-98-2025

Opening Date: December 28, 1998

Closing Date: January 25, 1998

The National Cancer Institute (NCI) seeks a Program Director for the Comprehensive Minority Biomedical Branch (CMBB). The position would oversee a variety of extramural training and career development award mechanisms designed to prepare minorities and other underserved populations for successful careers in cancer research and would serve a pivotal role in implementing the NCI's new Continuing Umbrella of Research Experience for Underserved Populations Program (CURE Program). The CURE Program begins by attracting high school students and undergraduate students into cancer research environments and then works proactively and selectively to give the best candidates continued assistance through the junior faculty level when they are establishing their independent research programs. The CMBB is a major component of the NCI's extramural training, career development and education activities and, as such, is integrated programmatically with all of the extramural scientific Divisions of the NCI and will all of NCI's information and education components. The incumbent will be expected to plan and implement workshops and symposia on special topics and conduct a range of activities at national cancer meetings sponsored by such organizations as the American Association of Cancer Research, the American Society of Clinical Oncology and the American Society of Preventive Oncology.

SALARY RANGE AND BENEFITS: Salary ranges from \$58,027 - \$75,433 (GS-13) to \$68,570 - \$89,142 (GS-14) per annum. Benefits include health and life insurance, retirement, paid holidays, vacation and sick leave. Salary quoted includes locality pay.

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

- 1) Knowledge of the scientific discipline(s) appropriate to the position and the ability to collect, organize, interpret and analyze scientific and technical information related to cancer research.
- 2) Knowledge of Federal grants, application, review and management process, including site visit planning, organization and execution.
- 3) Ability to prepare written material of a technical and scientific nature.
- 4) Ability to orally communicate scientific information.

APPLICATION PROCEDURES: The NCI recruitment bulletin for this position contains complete application procedures and lists all mandatory information which you must submit with your application. To obtain the recruiting bulletin, call **1-800-728-JOBS** (for local calls, 301-594-2953). When promoted, enter the "Fax ID Number" **1916** for CA-98-2025. You will be prompted for your fax machine number. If you have any questions on qualification requirements or application procedures, or if you wish to obtain a position description or other information, please call (301) 402-2812.

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

**NATIONAL INSTITUTES OF HEALTH
NATIONAL CANCER INSTITUTE
HUMAN RESOURCE AND CONSULTING BRANCH
6120 Executive Boulevard, MSC 7211
Executive Plaza south, Suite 550
Rockville, Maryland 20852-7211**

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**POSITION ANOUNCEMENTS
Great Lakes WATER Institute
University of Wisconsin System/
University of Wisconsin-Milwaukee**

The Wisconsin Aquatic Technology and Environmental Research (WATER) Institute is implementing an aggressive plan to expand its programs in aquatic sciences and environmental research. The WATER Institute provides a focal point for research, education, and outreach aimed at a thorough understanding of the Great Lakes and other aquatic and environmental resources of local, state, national, and international importance. The Institute serves as the home of the UWM Center for Great Lakes Studies, the NIEHS Marine and Freshwater Biomedical Sciences Center, the UWM Aquaculture Institute, the Lake Michigan Fisheries Management and Law Enforcement units of the Wisconsin Department of Natural Resources, and the Wisconsin Sea Grant Regional Advisory Services.

Environmental Scientist (Assistant/Associate Scientist)

The WATER Institute seeks an Environmental Scientist to fill an academic-year research position within the Institute. The Institute seeks an individual with broad expertise in the effects of contaminants in aquatic systems. The incumbent is expected to 1) develop a strong sponsored research program in areas such as environmental toxicology (communities/ecosystems, organismal, cellular/modular) and quantitative risk assessment; 2) interact in a highly interdisciplinary, team-oriented environment; 3) initiate and conduct research, supervise advanced undergraduate/graduate students and postdoctoral scientists, and participate in a variety of WATER Institute programs. The position requires a Ph.D. and demonstrated expertise in environmental contaminants research. Postdoctoral experience is preferred.

Marine/Aquatic Scientist (Assistant Scientist)

The Institute seeks a Marine/Aquatic Scientist with the demonstrated potential to coordinate a multi-agency-funded field monitoring program in coastal Lake Michigan and to aggressively pursue a state-of-the-art research program in some or all of the following areas: large lake limnology and coastal oceanography, research in support of environmental monitoring and ecosystem change; *in situ* instrumentation and technology development; physical/chemical/biological ecosystem dynamics; data assimilation and ecosystem modeling; and aquatic/marine biogeochemistry. The position requires a Ph.D. and demonstrated expertise in interdisciplinary aquatic sciences. Postdoctoral experience is preferred.

Salary for both positions is commensurate with qualifications and experience; appointment is on an academic year basis and includes excellent fringe benefits.

Submit a letter of application (making specific reference to the position applied for), résumé or vitae, a 2-page statement of research interests and plans, and the names, addresses, phone numbers, and e-mail addresses of three (3) references, postmarked no later than 1 March 1999, to: **Chair, Search Committee, UWS/UWM Great Lakes WATER Institute, 600 E. Greenfield Ave., Milwaukee, WI 53204. Phone: 414-382-1700, Fax: 414-392-1705.** Visit the WATER Institute home page at www.uwm.edu/Dept/GLWI/.

Minorities and members of underrepresented groups are encouraged to apply. EOE/AA/M/F/H/V.

INTELLECTUAL PROPERTY LICENSING ASSOCIATE

Brookhaven National Laboratory, under contract with the U.S. Department of Energy, is a multidisciplinary laboratory engaged in a diverse program of basic and applied research. We presently seek a Licensing Associate to join our Office of Economic Development and Technology Transfer.

The position requires an MS in Materials Science, Chemistry or Chemical Engineering, substantial experience in intellectual property licensing, and excellent analytical marketing, organizational and negotiating skills. Responsibilities will include conducting market evaluation of new technologies, developing licensing strategies for potential technology commercialization projects with industry, marketing intellectual properties to potential licensees, and negotiating license agreements with industry.

We offer a stimulating work environment and a comprehensive benefits package. For consideration, please forward your resume, indicating position #MK2423, to: Marsha Kipperman, Brookhaven National Laboratory, Human Resources Division, Building 185, P.O. Box 5000, Upton, New York 11973-5000. BNL is an equal opportunity employer committed to diversity.

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New team members will also be able to draw on state-of-the-art cell and molecular biology methodologies and bioinformatics approaches to gene discovery and downstream characterization of gene function. Demonstrable problem-solving skills using a variety of technical approaches are required.

Compensation will meet your qualifications and includes equity participation in an exciting growth Company. For consideration, please send or fax your résumé/CV, and 3 letters of reference to: **DIGITAL GENE TECHNOLOGIES, INC., 11149 North Torrey Pines Road, Suite 110, La Jolla, California 92037, fax: (619) 552-8625, EOE.**

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UNIVERSITY OF PENNSYLVANIA

DIRECTOR INSTITUTE FOR RESEARCH IN COGNITIVE SCIENCE

The University of Pennsylvania seeks an outstanding scientist and leader for the position of Director, Institute for Research in Cognitive Science. The position will include a faculty appointment in an appropriate academic department.

IRCS is one of the most distinguished research centers in the cognitive sciences with a rich tradition of creative interdisciplinary cooperation. Since 1991 it has been an NSF-sponsored Science and Technology Center. IRCS brings together over 50 faculty from three schools: Arts and Sciences, Engineering and Applied Science, and Medicine. Its research has focused on the areas of language acquisition, structure and processing; logic and computation; and perception and action. Other centers of excellence at Penn collaborate with and complement IRCS, in particular the Institute of Neurological Sciences, the Institute for Medicine and Engineering, and a new University initiative in cognitive neuroscience.

The Director should have an outstanding record of research, teaching, and administration, as well as the demonstrated ability to turn ideas into organization. She or he will lead the Institute's funding efforts, and will further develop its educational programs.

Candidates should supply a letter of interest supported by curriculum vitae and the names of three references. Applications submitted by 1 March 1999 will receive full consideration, but applications will be reviewed until the position is filled. Please send nominations and applications to:

Vice Provost James J. O'Donnell
Chair, IRCS Search Committee
c/o School of Arts and Sciences
116 College Hall
University of Pennsylvania
Philadelphia, PA 19104-6377



Further details about IRCS are available at www.cis.upenn.edu/~ircs.

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Associate Laboratory Director For Strategic And Supporting Research

SUMMARY: Responsible for development of new mission areas in non-defense applied and basic research as well as oversight of existing Laboratory programs in those areas. Provide supporting basic and applied research to the nuclear weapons and threat reduction programs of the Laboratory and ensure the strength and quality of basic research. Responsible for line management of several technical divisions managing the Laboratory's capabilities in chemistry, earth and environmental sciences, life science, materials science, physics, and theoretical physics. Responsible for ES&H management, facilities management, workforce diversity and excellence, quality of science, technical capability development, and programmatic performance.

REQUIRED SKILLS: Successful experience leading a large technical organization or a large, complex set of technical activities in basic and/or applied research. Distinguished record as a research scientist or engineer. Strong record of leadership. Strong management skills in planning and implementation, performance-based management, and customer and stakeholder interactions.

DESIRED SKILLS: Successful experience as a mid-level line manager. Experience in program development and management with the Department of Energy (DOE) or other federal agencies. Experience working with university or industrial researchers and management.

EDUCATION: Ph.D. in Science or Engineering, or equivalent combination of education and experience.

Ability to obtain a DOE Q-clearance, which normally requires U.S. citizenship, is required. Applicant selected will be subject to a Federal background investigation and must meet eligibility requirements for access to classified matter.

For full text of this job, see <http://www.lanl.gov/external/opportunities> and search for Job Number 983627.

For consideration, please send your resume referencing "SCIENCE983627" to jobs@lanl.gov (no attachments, please) or mail to: Human Resources Division, Los Alamos National Laboratory, "SCIENCE983627," Mail Stop P286, Los Alamos, New Mexico 87545.

www.lanl.gov AA/EOE

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**THE UNIVERSITY OF
ALABAMA AT BIRMINGHAM
DEAN, NATURAL SCIENCES
AND MATHEMATICS (NS&M)**

The University of Alabama at Birmingham (UAB) seeks applications and nominations for the Dean of the School of Natural Sciences and Mathematics. The school consists of doctoral degree granting departments of biology, chemistry, computer information science, mathematics, and physics. The school is a dynamic academic organization and provides an environment that encourages personal and professional development among its faculty, student attainment of academic and professional success, and strong partnerships with private and public sector organizations. It employs 83 faculty, and currently enrolls approximately 1064 undergraduate student majors and 150 students in graduate study. The school has undergone explosive growth in research capabilities in the past decade with extramural funding tripling in that time.

UAB is a comprehensive, urban university and medical center enrolling 16,000 students in 12 schools on its 75-block campus. UAB has grown rapidly in its 28 year history. It is a Carnegie Research I institution with active grants and contracts exceeding \$270 million and ranks 30th nationally in federal research and development funding.

Qualifications include proven administrative and leadership skills in higher education; the ability to articulate a vision for the future of a college of natural sciences and mathematics in a top-ranked research institution; and a demonstrated capacity to work effectively with faculty, staff, students and community leaders. The ability to develop and maintain effective fundraising strategies for the school and a proven track record of extramural funding development are essential. Qualifications must also include a terminal degree and distinguished academic credentials meriting appointment to the rank of Professor in the school. As the chief academic, administrative, and financial officer of the school, the Dean reports directly to the Provost.

Review of applications will begin February 28, 1999. Applications should include a letter of interest, current curriculum vitae and a list of references. Applications will be accepted until the position is filled. UAB is an equal opportunity employer. Address correspondence to:

**NS&M Dean's Search Committee
Office of the Provost
701 South 20th Street, AB 1019
Birmingham, AL 35294
mroser@uab.edu**

**NATIONAL CANCER INSTITUTE
DIVISION OF EXTRAMURAL ACTIVITIES
OFFICE OF REVIEW, REFERRAL AND
PROGRAM COORDINATION
ROCKVILLE, MARYLAND**

OPENING DATE: 12/21/98

CLOSING DATE: 2/5/99

Announcement Number: CA-98-1963

**ASSOCIATE DIRECTOR FOR REVIEW, REFERRAL AND
PROGRAM COORDINATION**

The Associate Director for Review, Referral and Program Coordination (RRPC) will provide leadership, oversight, and coordination of the major referral, review and program coordination activities in the National Cancer Institute. The Associate Director for Referral, Review and Program Coordination will assume the tasks of planning, directing and coordinating staff and resources to meet review workloads; of maintaining up-to-date standing policies and procedures; and of editing, tracking and coordinating the development and release of RFAs, RFPs, and Program Announcements with the receipt, referral, and review of applications within the Division of Extramural Activities.

The Associate Director manages a budget of approximately \$7 million and oversees a staff of approximately 75, working within 3 distinct organizational units. Staff include Ph.D./M.D. level Health Scientist Administrators, mid-level professional staff, and grants/contracts technical support staff. He/she works closely with NCI leadership to develop cohesive referral, review and program coordination functions for the NCI. The Associate Director coordinates, directs, and evaluates the NCI's efforts in planning, policy setting, operation and application of programs as they relate to the referral, review, and program coordination activities of the NCI.

SALARY/BENEFITS:

Senior Executive Service Appointments - Maximum compensation of \$151,800 allowable (The annual basic Senior Executive Salary ranges from \$99,200 to \$118,400. A one-time lump-sum recruitment bonus of up to 25% of basic salary may be paid. Future compensation may also include an annual retention allowance up to 25% of basic salary. Total compensation, however, may not exceed the maximum payable amount of \$151,800).

Other Appointment Mechanisms and Incentives - May apply in individual circumstances based on experience and expertise with total salary and incentive compensation to be negotiated.

Benefits - Health and life insurance options, retirement, savings plans, paid holidays, and vacation and sick leave.

Applications will be accepted from all qualified persons, including PHS Commissioned Corps Officers and individuals with SES reinstatement eligibility. The individual selected, if not presently in the SES, must serve a one-year probationary period.

Applicants must meet the qualifications requirements. Applicants will be further evaluated on the degree to which they possess these requirements. A copy of the requirements may be obtained by contacting Ms. Toni McKeown in the Human Resources Management and Consulting Branch, NCI, at (301) 402-2812. Applicants are strongly encouraged to obtain this information.

**Applications/resumes are to be sent to Ms. McKeown at:
National Cancer Institute
Human Resources Management and Consulting Branch
6120 Executive Boulevard EPS/Room 550
Rockville, Maryland 20852-7211**

All applicants will receive consideration without regard to race, color, gender, national origin, age, religion, disability or sexual orientation.

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SCIENTIST I

Must be able to co-author external reports, design/conduct experiments, evaluate results, and provide experimental design/implementation and equipment training. Requires a B.S. with 4 years' experience, an M.S. with 2 years, or a recently granted Ph.D.

SCIENTIST II

Must be able to achieve project milestones, lead an R&D project team, contribute to resolution of experimental problems, write R&D reports and present results, and implement changes in specifications/procedures through design control. B.S. degree requires 6 years' experience, M.S. requires 4 years, and Ph.D. requires 2 years.

We offer a competitive compensation and excellent benefits, unmatched growth potential, team support and the empowerment to make things happen. Please send your resume & salary history to: Medical Analysis, Inc., 542 Flynn Road, Camarillo, CA 93012, Attn: Human Resources. Fax: (805) 987-6498. E-mail: hr@mas-inc.com EOE

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In addition to the rewards of working in a productive research environment, you'll also enjoy competitive compensation and excellent benefits. Send a scannable resume and cover letter with salary requirements by 2/28/99 to: Weyerhaeuser Staffing Resource Center, Job #S98206, CCB 5D7, PO Box 2999, Tacoma, WA 98477-2999. E-mail in ASCII text (not as an attachment) to: resume@wdni.com



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ANNOUNCEMENT



HUNTER'S HOPE

The Hunter's Hope Foundation was established by Jim and Jill Kelly in September 1997 after their son, Hunter, was diagnosed with Krabbe Disease. Hunter's Hope is Jim and Jill Kelly's life-long commitment to both increase public awareness of Krabbe and support research efforts to find a cure for Krabbe and other Leukodystrophies.

CALL FOR RESEARCH APPLICATIONS

- 1. Post-Doctoral Fellowships** for individuals who are within five years of receiving their terminal degree (MD, DVM, Ph.D. or equivalent degree). Fellows will be working with senior investigators on either basic mechanisms or treatment approaches to patients with Krabbe and other Leukodystrophies. Fellowships will be awarded for two years with stipends ranging from \$40,000-\$60,000 per year.
- 2. Pilot Studies**, funded for \$30,000, will be awarded to researchers who wish to test new concepts or ideas. Proposals for this category will be funded at any time throughout the year.
- 3. Major Research Grants** for \$100,000 per year for two or three years will be awarded to senior investigators who are studying either basic mechanisms or treatment approaches to Krabbe Disease.

The deadline for the first cycle of applications will be April 15, 1999 with a funding date of July 1, 1999. The date for receipt of applications for the second funding cycle will be September 15, 1999 with funding by January 1, 2000.

Please contact the Hunter's Hope Scientific Advisory Board for applications:

Suzanne Wheeler, Executive Director
Hunter's Hope Foundation, Inc.

P.O. Box 643

Orchard Park, NY 14127

(716) 667-1200

FAX (716) 667-1212, Toll Free 1 (877) 984-HOPE

SYMPOSIUM



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Robert F. Siliciano
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You will conduct all design and preparation aspects of new chemical entities for biological testing, as well as supervise one or more Research Associates. Requires a PhD in Organic or Medicinal Chemistry with an emphasis in experimental synthetic organic chemistry. Post-doc experience in an academic or industrial setting is desirable. Ability to solve problems using modern chemical/biochemical principles within the organic chemistry field also essential.

RESEARCH SCIENTIST Microbial Genetics

Responsibilities include molecular genetics research involving discovery of multi-drug resistance efflux pumps from bacteria and fungi. Requires an MS/PhD in Biology, Molecular Biology or a related discipline and 3+ years experience in bacterial or fungal genetics and/or molecular biology relating to microbial pathogens.

RESEARCH MICROBIOLOGIST

You will evaluate anti-infective agents using *in vitro* methods and animal models of infection. Requires a BS/MS in Microbiology or a related field and 2+ years experience in microbial identification, evaluation of antimicrobial agents, drug resistance studies and pharmacodynamics.

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Charles E. Schmidt College of Science FLORIDA ATLANTIC UNIVERSITY

DEPARTMENT OF BIOMEDICAL SCIENCE SCHMIDT SENIOR FACULTY FELLOW

Florida Atlantic University is seeking its first (of four in total) Schmidt Senior Faculty Fellow in Biomedical Science. The Schmidt Senior Faculty Fellows will become the core senior faculty of a new Department of Biomedical Science recently created in the Charles E. Schmidt College of Science at FAU. The Schmidt Senior Faculty Fellows will have internationally recognized programs of research in the biomedical sciences supported by extramural funding. The area of research of the first Schmidt Senior Faculty Fellow remains open.

The first Schmidt Senior Faculty Fellowships will be tenable in 1999-2000. The candidate may remain at his/her institution, or spend the year at any institution in the US or abroad, upon mutual agreement between the candidate and FAU. Following the fellowship year, the Fellow will join FAU as full professor in the Department of Biomedical Science. The faculty hired into this new department, together with faculty in existing programs at FAU, will be part of an initiative to develop a biomedical science program of international renown to serve the rapidly growing population of South Florida.

This initiative has been underwritten by an extraordinary gift of \$15 million from the Schmidt Family Foundation to be matched by an equal amount from the State of Florida. A 90,000 sq. ft. facility, the Charles E. Schmidt Biomedical Science Center, will be constructed to house the new Department of Biomedical Science and its programs, and an endowment established to ensure ongoing support for research and teaching of distinction.

As part of this initiative, Florida Atlantic University and the University of Miami School of Medicine have recently established a Partnership for Quality Medical Education, the purpose of which is to undertake feasibility planning of a joint medical education program, in which FAU would provide preclinical training to medical students through the Department of Biomedical Science. After successful completion of the preclinical program, students would complete their medical education at the University of Miami School of Medicine.

The Charles E. Schmidt College of Science is centered on the Boca Raton campus of Florida Atlantic University in Palm Beach County, approximately 50 miles north of Miami.

ASSISTANT/ASSOCIATE PROFESSOR

Florida Atlantic University is seeking to appoint a faculty member at the rank of assistant or associate professor in our newly created Department of Biomedical Science. The faculty hired as part of this new department will be expected to contribute to the teaching programs of the department and maintain an active research program supported by external funding. Area of research is open.

Applicants for these positions should send a curriculum vitae, statement of teaching and research interests, and arrange at least three letters of reference to be forwarded to **Dr. Gary W. Perry, Acting Associate Dean for Biomedical Programs, Charles E. Schmidt College of Science, Florida Atlantic University, P.O. Box 3091, Boca Raton, FL 33431**. The deadline for receipt of applications is February 19, 1999.

CHAIR DEPARTMENT OF BIOLOGICAL SCIENCES

Florida Atlantic University is seeking a Chair for the Department of Biological Sciences in the Charles E. Schmidt College of Science. The department currently offers bachelors and masters degrees in biological sciences as well as a masters degree in environmental science. Planning approval has been obtained from the Board of Regents for implementation of a doctoral degree in biology. In addition, detailed program planning has begun for the department's relocation to a fully renovated, state-of-the-art facility, of approximately 40,000 sq. ft., immediately adjacent to its current site.

The new Chair will have had experience with the successful operation of a Ph.D. program in the life sciences and will play a key role in defining the academic development of the department into the 21st Century. Of particular importance will be the creation of strong programmatic links to our new Department of Biomedical Science, the nurturing of the newly established Center for Molecular Biology and Biotechnology and the development of a Center for Ecological and Molecular Environmental Studies.

Candidates with records of externally funded research and appropriate administrative experience are encouraged to apply. The broad-ranging research interests of current biological sciences faculty can be found at <http://www.fau.edu/divdept/biology/>. Applicants should send a curriculum vitae, statement of teaching and research interests and the names of three references to: **Dr. Peter Lutz, Chair, Department of Biological Sciences, Florida Atlantic University, P.O. Box 3091, Boca Raton, FL 33431**. The deadline for receipt of applications is February 19, 1999.

*Florida Atlantic University is an Equal Opportunity/Access/Affirmative Action Institution.
All positions are contingent upon budget feasibility.*

POSITIONS OPEN

NICHOLAS CHAIR OF EARTH AND OCEAN SCIENCES DUKE UNIVERSITY

The Division of Earth and Ocean Sciences (EOS) of the Nicholas School of the Environment (NSOE) at Duke University invites applications for a distinguished, tenured, Full Professor appointment as a Nicholas Chair of Earth and Ocean Sciences. We are seeking an outstanding scientist with an established record of scholarly achievements in the earth and ocean sciences. We are particularly interested in scientists who work at a broad scale and examine the physical, chemical, or biological processes and exchanges that occur at the interfaces of the atmosphere, biosphere, hydrosphere, and lithosphere. Those with expertise in (i) climate studies on various time scales, (ii) coastal oceanography, (iii) biogeochemistry, and (iv) surficial processes are especially encouraged to apply. The successful candidate will be expected to continue to develop their existing research program, as well as play an appropriate role in educational programs within Duke University. We are also interested in candidates whose research interests will foster linkages within NSOE and with other elements of Duke University.

EOS currently includes 14 full-time faculty, and three faculty with secondary appointments from other academic units. This position is one of four Distinguished Nicholas Chairs to be appointed in the Nicholas School of the Environment and part of a series of faculty hires in EOS focusing on processes affecting the Earth's surface and oceanic realms.

Duke University offers a wide range of supporting facilities and resources, including computational equipment, analytical instrumentation, the Duke University Marine Laboratory, and the R/V Cape Hatteras (jointly operated by Duke and the University of North Carolina). Please see our website: <http://www.eos.duke.edu> for additional information.

Interested individuals should send a letter of interest and curriculum vitae to: Chair, Nicholas Chair Search Committee, Division of Earth and Ocean Sciences, Box 90230, Duke University, Durham, NC 27708-0230. The review of applicants will begin on February 1, 1999, and will continue until the position is filled. Duke University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION. Biochemistry/organic. Chatham College, an independent liberal arts college for women with an ACS-approved program, invites applications for a visiting position at the **ASSISTANT PROFESSOR** level, starting August 1999 (coincident with the opening of our new laboratory facility). This position has the possibility of renewal. Candidates should be prepared to teach biochemistry lecture and laboratory courses, with some teaching in organic and the general curriculum of the department. Supervision of senior research projects is also a valued tradition at Chatham. Candidates must have a Ph.D. in biochemistry, a strong background in organic chemistry, and demonstrated competence in teaching. Review of applications will begin January 31, 1999. Send letter of application, curriculum vitae, copies of transcripts, short description of research interest, and three reference letters to:

Chatham College
Human Resources Office
Job# 307
Woodland Road
Pittsburgh, PA 15232

Chatham College is an Equal Opportunity Employer.

PROFESSOR AND HEAD AGRONOMY

Iowa State University seeks a Professor and Head for the Department of Agronomy. The candidate is expected to provide visionary and fiscally responsible guidance; communicate effectively with faculty, staff, and agricultural leaders at a national and international level; encourage interdisciplinary programs; and develop diversity in the department through recruitment efforts. Applicants must have a Ph.D. in crop science, soil science, agricultural meteorology, or a related field. Excellent communication skills, demonstrated leadership, and an internationally recognized record in teaching, research, and/or extension is essential. Applicants should submit a curriculum vitae, the names of five references, and letter of application to: Dr. Dennis Marple, Chair, Search Committee, 1221 Kildee Hall, Iowa State University, Ames, IA 50011-3150. Application deadline is March 1, 1999, or until the position is filled. Iowa State University is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

HEAD, DEPARTMENT OF BIOCHEMISTRY PURDUE UNIVERSITY

Applications are invited for the position of Department Head, beginning with the 1999-2000 academic year. The Department has 18 full-time faculty members and established undergraduate and graduate programs leading to the B.S., M.S., and Ph.D. degrees. The faculty of the Department are also major participants in interdepartmental programs in biochemistry and molecular biology, genetics, and plant biology. The administration is committed to the continuation and enhancement of the stature of this internationally recognized unit. Several new appointments are anticipated during the next three to five years. Candidates must have a Ph.D. or equivalent degree and be eligible for tenure at the rank of Professor. The successful candidate should have an established, internationally recognized program of sponsored research, leadership skills, a distinguished record of ongoing scholarly activity, and a commitment to teaching excellence. Demonstrated experience in administrative or managerial tasks or an interest in developing these capabilities is essential. A competitive package in the area of recruitment and resources is available. More detailed information about the department is available at website: <http://www.biochem.purdue.edu>.

Qualified persons are requested to submit the following: a letter of application; a statement of research, teaching, and administrative philosophy; complete curriculum vitae, including names, addresses, and telephone numbers of five references. The selection process will begin on February 1, 1999, and continue until a suitable candidate is found. Nominations of potential candidates for the position are welcome. Applications, nominations, and inquiries should be addressed to:

Professor Ronald Somerville
Chair, Biochemistry Department
Head, Search Committee
c/o Office of the Dean of Agriculture
1140 Agricultural Administration Building
Purdue University
West Lafayette, IN 47907-1140
Telephone: 765-494-1614
FAX: 765-494-7420

Purdue University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN THE DEPARTMENT OF APPLIED PHYSICS STANFORD UNIVERSITY

The Department of Applied Physics at Stanford University intends to make a faculty appointment in the broad area of materials synthesis and study motivated by cutting-edge issues of solid state physics. We are primarily seeking candidates for a tenure-track **ASSISTANT PROFESSORSHIP**; however, outstanding candidates for **ASSOCIATE** and, possibly, **FULL PROFESSORSHIPS** will be considered. Applicants will be expected to pursue a vigorous scientific program and to teach courses at both the graduate and undergraduate levels.

Each applicant should send a curriculum vitae, bibliography, a brief statement of research interests, and names of three references to: Professor Aharon Kapitulnik, Chair, Department of Applied Physics, 316 Via Pueblo Mall, Stanford University, Stanford, CA 94305. To receive full consideration, materials should be received by February 15, 1999. The term of appointment can begin September 1, 1999. Stanford University is an Equal Opportunity/Affirmative Action Employer; women and minority candidates are strongly encouraged to apply.

FACULTY POSITIONS BASIC AND CLINICAL SCIENCES

Touro University College of Osteopathic Medicine is relocating to a new campus on Mare Island, Vallejo, California, and is seeking faculty to fill full-time positions in human anatomy, immunology and virology, pharmacology, and pathology. We are also seeking Board-certified Osteopathic Physicians in pediatrics and orthopedic surgery. One of the latter must have at least five years of experience post-certification. Positions are available July 1, 1999. Proven teaching ability at the health professions level is essential. Candidates with grant writing and research experience are preferred. Please send a letter describing your qualifications and interests, a complete curriculum vitae, and the names of three references, by February 28, 1999, to: Dr. Peter Perhac, Associate Dean for Administration, Touro University, 1210 Scott Street, San Francisco, CA 94115. Touro University is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITIONS DEPARTMENT OF NEUROBIOLOGY AND ANATOMY University of Rochester

Applications are invited for tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** positions. The Department maintains a leading role within an extensive multidisciplinary neuroscience community. As part of a parallel institutional initiative, we will recruit new faculty that build upon a strong history and commitment to systems and cellular neuroscience in the areas of sensorineural and multisensory processing, sensorimotor integration, and adaptive plasticity. Applicants should have a Ph.D. and/or M.D. and should have established an independent research laboratory following training in neuroscience. Successful candidates will participate in teaching activities in the graduate neuroscience program and in the medical school, and will build and maintain a productive, independent, and externally supported research program. Competitive start-up packages are included. Salary is commensurate with rank and experience. Appointments may begin July 1999. Applications, including a curriculum vitae, statement of career goals, at least three letters of recommendation, and several publications, should be sent to: Gary D. Paige, M.D., Ph.D., Chair, Department of Neurobiology and Anatomy, University of Rochester, 601 Elmwood Avenue, Box 603, Rochester, NY 14642. The University of Rochester is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS IN MOLECULAR NEUROSCIENCE

As part of a major expansion, the new College of Science and Technology at Temple University invites applications for multiple tenure-track faculty positions in the area of molecular neuroscience. The faculty will be expected to participate in the university-wide neuroscience program, to conduct high-quality funded research, and to contribute to our educational mission at the graduate and undergraduate levels. Appointments are possible at **ALL ACADEMIC LEVELS**, appropriate to experience. Applicants for Associate Professor or Professor must have an externally supported research program and a substantial publications record.

Emphasis will be placed on the application of molecular approaches to (1) developmental neuroscience, (2) neurochemistry, (3) neurobiology, (4) plasticity, (5) integrative neuroscience.

Applicants should send a curriculum vitae, publication list, a statement of research interests and teaching philosophy, and ask four references to send letters to: The Chair of the Neuroscience Search Committee, Office of the Dean, College of Science and Technology, Temple University, Philadelphia, PA 19122. Additional information can be obtained at website: www.temple.edu/biology.

Temple University is an Equal Opportunity/Affirmative Action Employer. Applications from women and members of underrepresented minorities are encouraged.

FACULTY POSITION AVAILABLE IMMEDIATELY

The Department of Ophthalmology at the University of Pittsburgh invites applications for a tenure-track faculty position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. The successful applicant will join a dynamic and interactive group of scientists who are studying molecular and cellular biology, biochemistry, virology, and immunology. It is anticipated that the candidate will have a joint appointment in a basic science department and participate in the interdisciplinary graduate training program. Preference will be given to those candidates with research focus in signal transduction, but candidates representing other disciplines will also be considered. The candidate's primary responsibility will be to establish an independent, externally funded research program, and to participate in graduate-level training programs. Candidate must have a Ph.D. or M.D. degree, and postdoctoral experience. Salary will be competitive, and commensurate with experience. Send a letter of application, curriculum vitae, description of research goals, and names of three references to: Robert L. Hendricks, Ph.D., Director, Ophthalmology and Visual Sciences Research Center, Professor, Department of Ophthalmology, University of Pittsburgh School of Medicine, Room 915, Eye and Ear Institute, 203 Lothrop Street, Pittsburgh, PA 15213. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

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PATENT ATTORNEY

JD, BS Biological Science

Job code: 60-1

Responsible for obtaining the appropriate IP protection for Phylos technology, you will prepare and prosecute worldwide patent applications and provide intellectual property review. You will play a significant role in defining and effecting corporate strategy, including drafting, reviewing and negotiating agreements with significant IP content, working closely with the senior management team.

Applicants should possess a minimum of five years experience in drafting patent applications and amendments in the biotechnology/pharmaceutical industry; experience in drafting technology agreements (in- and out-licensing) and, have excellent verbal and written communication skills.

MOLECULAR, CELLULAR AND PROTEIN BIOLOGY & ANTIBODY ENGINEERING

Ph.D. Job code: 50-1

MS, BS Job code: 50-2

We are seeking highly motivated scientists to join our Molecular Biology, Cell Biology, and Protein Biochemistry Departments. To fill this broad area of scientific interest, we are looking for a number of candidates with combined expertise across these disciplines. Candidates should have experience with vector construction, prokaryotic and eukaryotic cell growth, SELEX, PCR, and protein production and purification. One specific area of research involves the development of novel antibodies and antibody mimics using a directed evolution approach. Candidates with antibody engineering and immunoassay experience are highly preferred.

SYNTHETIC ORGANIC CHEMIST

Research Scientist: BS/MS

Job code: 52-1

You will be responsible for the synthesis, purification and characterization of novel compounds. Proficiency in organic synthesis and spectroscopic techniques is required. Experience in nucleic acid and/or peptide chemistry is a plus. Minimum qualifications include a BS degree in Chemistry and 1-3 years of laboratory experience.

MICROCHIP BIOLOGY/CHEMISTRY SCIENTIST

Research Scientist: BS/MS

Job code: 52-3

You will join an interdisciplinary team developing novel Protein Display Microchips. Familiarity with basic molecular biology and/or surface derivatization techniques is required. Exposure to micorarray technology, high-throughput screening, RNA manipulation, hybridization, robotic systems, immunoassay, or fluorescence is a plus. Minimum qualifications include a BS degree in a biological or chemistry science and 1-3 years of laboratory experience.

OLIGONUCLEOTIDE SYNTHESIS

Research Scientist: BS/MS

Job code: 52-2

You will prepare and characterize synthesis nucleic acids. Familiarity with DNA synthesis instrumentation, DNA synthesis chemistry, and HPLC is required. Experience in a QC environment or a core lab is a plus. Minimum qualifications include a BS degree in Chemistry and 1-3 years of laboratory experience. Good organizational skills are essential.

PLEASE, NO PHONE CALLS.

Phylos offers a competitive compensation package including: health benefits, 401K, and stock options. Phylos is an equal opportunity employer. Send CV's to Phylos, Inc., 128 Spring Street, Lexington, MA 02421, or fax them to (781) 402-8800.

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Postdoctoral Opportunities, Women's Health Research Radnor, PA

The Women's Health Research Institute, a division of Wyeth-Ayerst Laboratories was formed 5 years ago with the goal of developing novel therapeutics in the areas of menopausal conditions, reproductive disorders and contraception. Over 100 scientists are involved in the research and regularly present their work at national meetings and in peer reviewed scientific journals.

A post-doctoral position is currently available involving identification of new genes expressed during ovarian follicular development and analysis of growth and differentiation, gene expression and bioinformatics. This exceptional opportunity will also provide exposure to pharmaceutical research, in addition to providing solid scientific training. Additionally, projects have been identified which will enable the successful candidate to have their findings published. **Job Code OPSCI-4313**

Another challenging opportunity exists involving the study of estrogen action in the brain with an emphasis in neuroprotection, Alzheimer's disease, and hot flushes. The applicant is expected to be familiar with the functional organization of the brain, the use of histological, molecular biological and cell culture techniques. Experience with light (confocal) and electron microscopic evaluation of brain tissue is a plus. **Job Code OPSCI-4314**

Candidates must possess a Ph.D. and have a strong background in molecular and cellular biology. We seek individuals with initiative who are independent and goal oriented.

Wyeth-Ayerst offers competitive compensation and benefits programs including stock options, childcare subsidies, flextime, business casual Fridays, educational assistance and professional development programs. Please forward your resume with salary requirements referencing appropriate job code to: **Wyeth-Ayerst, P.O. Box 7886, Philadelphia, PA 19101-7886. Fax in fine mode to: (610) 989-4854. E-mail: jobs@RAMAIL1.wyeth.com** (ASCII format, no attachments, subject: resume). For more information, visit our website at **www.ahp.com/wyeth.htm** Principals only. Equal Opportunity Employer M/F/D/V

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POSITIONS OPEN

DEPARTMENT HEAD. The Department of Anatomy, Physiological Sciences, and Radiology (APR) in the College of Veterinary Medicine at North Carolina State University invites applications and nominations for the position of Department Head. The Head provides leadership to a department of 35 faculty with major research programs in environmental and molecular pathogenic mechanisms (cutaneous, gastrointestinal, neural, ocular, pulmonary, reproductive); pharmacokinetics; oncology and carcinogenesis; and cell signaling. This person will be responsible for administration of departmental instructional programs and research, as well as clinical service to the Veterinary Teaching Hospital in the disciplines of anesthesiology, pharmacology, and radiology. Required qualifications include a Ph.D. (or equivalent) degree, an outstanding record in extramurally funded research, a strong commitment to teaching and service, demonstrated leadership skills, and eligibility for appointment as a Full Professor. Desired credentials include the DVM (or equivalent) degree. The position is available July 1, 1999. Screening of applications will begin February 15, 1999, and will continue until the position is filled. Send curriculum vitae, and the names, addresses, telephone numbers, and e-mail addresses of three individuals who may be contacted by the Search Committee to provide references. Direct applications and questions to: **Dr. Lance E. Perryman, Chair of the Search Committee, College of Veterinary Medicine, North Carolina State University, 4700 Hillsborough Street, Raleigh, NC 27606. E-mail: lance_perryman@ncsu.edu. Affirmative Action/Equal Opportunity Employer. Individuals with disability desiring reasonable accommodations in the application process should contact: Dr. Lance Perryman, Telephone: 919-513-6250; FAX: 919-513-6455; TDD: 919-515-9617.**

FACULTY POSITION VIROLOGY NORTHWESTERN UNIVERSITY MEDICAL SCHOOL

The Department of Microbiology-Immunology is seeking to fill a full-time, tenure-track faculty position at the **ASSISTANT PROFESSOR** level in the area of virology with an emphasis on the study of retroviruses or herpesviruses. Candidates are expected to have completed at least two years of postdoctoral training, to demonstrate significant research accomplishments, and to be able to develop an outstanding research program with extramural support. Northwestern University Medical School has many interactive laboratories that study bacterial, viral, and protozoan pathogenesis as well as autoimmune and immune responses. Northwestern University Medical School has very strong Ph.D. and M.D.-Ph.D. programs as well as outstanding postdoctoral research programs. Applicants should send a statement of research goals, curriculum vitae, and the names, e-mail addresses, telephone numbers, and mailing addresses of three references to: **Faculty Search, Department of Microbiology-Immunology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611-3008.** To ensure full consideration applications should be received by March 1, 1999. Salary is negotiable. *Hiring is contingent upon eligibility to work in the United States. Northwestern University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. (P-145-99)*

A new Center for Human Molecular Genetics has been established at the University of Nebraska Medical Center. Strengths of the university genetics faculty include cancer genetics, complex trait analysis, molecular cytogenetics, gene-environment interactions, and clinical genetics. We are recruiting tenure-track faculty in broadly defined areas of human genetics and are especially interested in cancer genetics, functional genomics, pharmacology and neurogenetics. Brand-new state-of-the-art research space is available, and generous start-up packages will be provided. Applicants must have a Ph.D., M.D., or M.D.-Ph.D., and have a demonstrated ability to develop an independently funded research program. Although the search is primarily aimed at junior faculty levels, appointments at more senior levels will be considered.

Interested applicants should send curriculum vitae, a short summary of research plan, and the names of three references to: **Dr. Richard H. Finnell, Director, Center for Human Molecular Genetics, Munroe-Meyer Institute, 985450 Nebraska Medical Center, Omaha, NE 68198-5450. E-mail: rfinnell@unmc.edu; FAX: 402-559-5737. The University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disability are encouraged to apply.**

POSITIONS OPEN

FACULTY POSITIONS IN NEUROBIOLOGY UNIVERSITY OF CHICAGO

The Department of Anesthesia and Critical Care at the University of Chicago will make at least two tenure-track faculty appointments beginning the fall of 1999. The level of appointment will be either at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level, commensurate with the candidate's qualifications. Qualified individuals will join a strong and well-established cadre of NIH-funded Ph.D. researchers in newly remodeled office and laboratory space. Current faculty have interests in the neurobiology of synaptic transmission, cognition, anesthesia, neuroprotection, pain, and drug abuse. Qualified individuals will receive a generous start-up package of office and laboratory space, as well as funds for equipment, supplies, secretarial and technical staff support. They will be expected to implement a nationally recognized, extramurally funded research program that provides opportunities for the training of predoctoral students, Postdoctoral Fellows, and Residents in research. Qualified candidates will also participate in the teaching of medical students, graduate students, and Residents. Applications are solicited from individuals who apply either genetic, molecular, cellular, or systems-level approaches to the study of the central nervous system. Although preference will be given to those individuals whose research interests complement and extend those of current faculty, new research directions will be considered as well. Curriculum vitae, a two- to three-page statement of research interests, names of three references, and three representative publications should be mailed to:

**Dr. Donna L. Hammond
Associate Professor
Department of Anesthesia and Critical Care
University of Chicago
5841 South Maryland Avenue, MC4028
Chicago, IL 60637**

TENURE-TRACK FACULTY POSITION LIFE TECHNOLOGIES PROFESSORSHIP Center for Advanced Research in Biotechnology Protein-Nucleic Acid Interactions

The Center for Advanced Research in Biotechnology (CARB) is seeking outstanding candidates for a tenure-track, Life Technologies Professor faculty position. We are particularly interested in applicants that are highly motivated toward creative research in the area of protein-nucleic acid interactions; candidates with an interest in polymerase-nucleic acid interaction are especially encouraged to apply. The successful candidate will be expected to develop a strong, independent, externally funded research program, and to interact with other CARB faculty and with Investigators at Life Technologies, Inc., with expertise in macromolecular crystallography, high-field NMR spectroscopy, computational chemistry, and biochemistry and molecular biology.

CARB is a research center of the University of Maryland Biotechnology Institute and the National Institute of Standards and Technology devoted to fundamental problems of macromolecular structure, function, engineering, and design. Applicants should submit a curriculum vitae, a statement of research plans, and have three letters of reference sent to:

**Chair, Life Technologies, Inc.
Faculty Search Committee
Center for Advanced Research in Biotechnology
University of Maryland Shady Grove
9600 Gudelsky Drive
Rockville, MD 20850**

Review of applications will begin 1 March 1999.

CARB is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

Biology. FACULTY POSITION in organismal and cell/developmental biology. One-year faculty position at Oberlin College to teach an advanced course in cell or developmental biology and participate in team-teaching an introductory course in organismal biology. Both lecture and laboratory teaching will be required. Ph.D. required; teaching experience highly desirable. Submit curriculum vitae, statement of research and teaching interests, transcripts, and have three recommendation letters sent to: **Biology Search, Department of Biology, Oberlin College, Oberlin, OH 44074** by January 31, 1999. Telephone: 440-775-8323; e-mail: yolanda.p.cruz@oberlin.edu; website: <http://www.oberlin.edu/biologyP>. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITION IN NEUROENDOCRINOLOGY/ NEUROPHARMACOLOGY

The Department of Biology at Georgia State University invites applications for an anticipated **TENURE-TRACK** position. We are particularly interested in individuals who have background in areas such as neuroendocrinology or neuropharmacology and who employ molecular and cellular approaches to the study of how neurochemical signals regulate behavior. The successful candidate appointed at the Assistant Professor level will be expected to establish a vigorous, independent, externally funded research program. Applicants at more senior levels should have an established, externally funded research program. The successful candidate will be expected to participate in the instruction at the undergraduate and graduate levels. The Biology Department has a large and active research faculty, excellent research and core facilities, and M.S. and Ph.D. training programs (see website: <http://www.gsu.edu/~wwwbio>). Our expanding program in neuroscience includes two interdisciplinary Centers focused on neuroscience research and has outstanding research facilities in molecular, cellular, systems, and behavioral neuroscience. Applicants should include a curriculum vitae, reprints of recent papers, at least three letters of recommendation, and a statement of future research plans. Send application to: **Dr. Elliott Albers, Chair of Neuroendocrinology Search Committee, Department of Biology, Georgia State University, P.O. Box 4010, Atlanta, GA 30302-4010.** Review of applications will continue until the position is filled. *Georgia State University, a Unit of the University System of Georgia, is an Equal Employment Opportunity/Affirmative Action Employer.*

ENVIRONMENTAL SCIENCE

The new College of Science and Technology of Temple University is expanding its interdisciplinary program in environmental science and technology. **FACULTY POSITIONS** are available in biology, geology, and engineering. Successful candidates will be expected to participate in a university-wide environmental science and technology program, to conduct high-quality funded research, and to contribute to our educational mission at the undergraduate and graduate levels. Appointments are possible at all academic levels, appropriate to experience. Applicants for Associate Professor or Professor must have an externally supported research program and a substantial publications record.

Areas of interest in the Department of Biology include biodiversity, biomechanics, and behavioral and evolutionary ecology. Applicants with experience applying molecular methods to ecological questions, especially in aquatic environments, are particularly encouraged to apply.

Applicants should send a curriculum vitae, publication list, a statement of research interests and achievements, and a statement of teaching philosophy, and ask four references to send letters to: **Search Committee, Department of Biology, Temple University, Philadelphia, PA 19122.** Telephone: 215-204-8854; e-mail: jbs@astro.temple.edu; website: www.temple.edu/biology.

Temple University is an Equal Opportunity/Affirmative Action Employer. Applications from women and members of underrepresented minorities are encouraged.

FACULTY POSITION UCLA MEDICAL SCHOOL CHEMICAL CARCINOGENESIS

The Department of Pathology and Laboratory Medicine invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in the field of molecular mechanisms of chemical carcinogenesis. Areas of focus for prospective candidates may include mechanism of action of genotoxic or nongenotoxic carcinogens, receptor-mediated carcinogenesis, metabolism of carcinogens, genetic susceptibility to carcinogenesis, and anticarcinogenesis.

This recruitment builds on the outstanding scientific environment and attractive Westwood campus of UCLA. A comprehensive set-up package of state-based salary and operational resources will be available to the successful candidate. Qualified applicants possessing the M.D., Ph.D. or equivalent degree should send curriculum vitae, statement of research interests, and the addresses, telephone numbers, and e-mail addresses of three references to: **Oliver Hankinson, Ph.D., Search Committee Chair, Department of Pathology and Laboratory Medicine, University of California, 10833 Le Conte Avenue, Los Angeles, CA 90095-1732.**

DIRECTOR, BODEGA MARINE LABORATORY, UNIVERSITY OF CALIFORNIA DAVIS — The Division

of Biological Sciences and the Office of the Vice Chancellor of Research invites applications and nominations for the Directorship of the Bodega Marine Laboratory, an Organized Research Unit of the University of California, administered by the Davis campus. The Director will hold a joint administrative and academic appointment and, as such, must qualify for appointment at the tenure Full Professor level in an appropriate UCD academic department. Applicants must have a Ph.D. (or equivalent), demonstrated excellence in research and teaching, wide scholarly recognition, and appropriate administrative experience. The appointee will have a familiarity with national or international marine research programs and will build strong ties to a diversity of faculty on the UC Davis campus.

We seek a Director who will foster the development of an academic program based upon local and regional marine habitats and organisms. Appropriate disciplinary backgrounds are population, community, evolutionary, behavioral, and physiological ecology of marine organisms, as well as nearshore biological oceanography. Candidates must have a broad background and integrative ecological grasp of marine sciences. The Laboratory is situated on a coast of great biological significance, with strong upwelling in the California Current. Well-equipped with both research and teaching facilities, and integrated with the Bodega Marine Reserve, the Laboratory is an extraordinary site for research and teaching on northern California marine biota.

The position is at the Laboratory on a full time basis, although the appointee will also be a member of an appropriate academic unit at Davis. Applicants should provide a letter describing their research, teaching, and programmatic interests and plans for the future of these activities. A complete application also includes a current curriculum vitae, two carefully selected reprints, and the names, addresses (including e-mail) and phone numbers of four persons who have agreed to write letters of reference. This information should be sent to **Director Search, Bodega Marine Laboratory, P.O. Box 247, Bodega Bay, CA 94923**. The Selection Committee will begin to review applications on 1 March 1999. The position will remain open until filled.

The University of California Davis is an affirmative action/equal employment opportunity employer with a strong institutional commitment to the achievement of diversity among its faculty and staff.

HEALTH SCIENTIST ADMINISTRATOR (BIOLOGICAL SCIENCES) GS-601-13/14

The Minority Biomedical Research Support Program (MBRS), National Institutes of General Medical Sciences (NIGMS), National Institutes of Health is seeking a Health Scientist Administrator to serve as a staff specialist responsible for managing, advising, directing, and evaluating program activities for a portfolio of MBRS grant applications. In addition, the incumbent provides scientific expertise in specialized areas of biology and advises grantees and professional staff members regarding the research aspects of grants within these areas of expertise and serves as a source of technical knowledge.

Applicants interested in applying must have knowledge of biology or chemistry with specific expertise in biochemistry and/or organic chemistry, and of the experts in these areas of expertise; ability to make critical judgments about the management and evaluation of scientific research at minority-serving institutions; ability to write about complex scientific topics for a varied audience; and the ability in administering a research program(s) targeted to underrepresented minorities at minority-serving institutions.

For application package, qualification requirements and additional position information contact: NIGMS Personnel Office, 45 Center Drive - MSC 6200, Bethesda, MD 20892-6200, (301) 594-2749. TDD (301) 480-3994. To receive by FAX, call (301) 594-2953 or 1-800-728-JOBS and enter FAX ID: 3611.

The position is in the Federal Civil Service with a salary range of \$58,027 - \$89,142.

Closing date 2/1/99. U.S. Citizenship is required.

NIH is an Equal Opportunity Employer

Staff Scientist Laboratory of Tumor Immunology and Biology Division of Basic Sciences National Cancer Institute

The Laboratory of Tumor Immunology and Biology of the National Cancer Institute invites applications to apply for a Staff Scientist position to conduct studies in the design and development of novel immunotherapies for cancer. Applicants must have a Ph.D., M.D. or equivalent. The applicant should have experience in cellular immunology, immunoassays, or molecular biology. The applicant will be part of a highly interactive group of scientists conducting research involving experimental systems and collaborative clinical trials toward the development of novel immunotherapies for cancer, with emphasis on the development of novel recombinant vaccines. The Staff Scientist position is a 5-year appointment with potential for renewal. Salary range is commensurate with qualifications and experience. Full benefits apply. Applicants should send curriculum vitae, bibliography, and three letters of recommendation to:

**Miss Angela Childers
National Institutes of Health
10 Center Drive
Building 10, Room 4B58
Bethesda, Maryland 20892**

Applications should be postmarked by February 1, 1999.

NIH is an Equal Opportunity Employer.

Science Writer



Cold Spring Harbor Laboratory is seeking a science writer to join our Department of Public Affairs. In this position you will write articles, pamphlets, brochures, and press releases about basic research in biology and other Lab activities. A Ph.D. in biology and experience in science news writing preferred; strong biology background required. Must be able to write for scientists and lay audiences in lively, engaging style. Salary determined on basis of background and experience.

The Cold Spring Harbor Laboratory offers a competitive salary, a comprehensive benefits package, and an excellent work environment.

To apply, please reference job title and send letter of application, 2-3 writing samples, CV or resume, and contact information for three references to: **Human Resources Dept SW,**

Cold Spring Harbor Laboratory



**1 Bungtown Road
Cold Spring Harbor
New York 11724
Fax: 516-367-6867**

Equal Opportunity Employer M/F

UofL

ASSISTANT PROFESSOR UNIVERSITY OF LOUISVILLE HEALTH SCIENCES CENTER

Applications are invited to compete for available positions to investigate molecular/genetic mechanisms of birth defects. Successful candidates will join a research team active in the investigation of: signal transduction, regulation of gene expression, embryotoxicity, and genetic determinants of abnormal development. Opportunities exist to collaborate with multiple existing research programs in the University of Louisville Birth Defects Center. The candidate will be expected to develop an independent research program and successfully compete for external funding in an area related to molecular craniofacial biology. Applicants should submit: (1) curriculum vitae, (2) a statement of current research activities and future research plans, and (3) names of three references to: **Dr. Robert Greene, Department of Biological and Biophysical Sciences, ULSD, University of Louisville, Louisville, KY 40292.** *The University of Louisville is an EEO/AA employer. Women and minorities are encouraged to apply.*

POSITIONS OPEN

CHAIR DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY

The University of North Dakota School of Medicine and Health Sciences invites applications and nominations for the position of Chair of the Department of Pharmacology and Toxicology. We seek an outstanding Medical Scientist with a strong research record, including extramural support, in molecular approaches to the study of pharmacology and toxicology, who will complement, expand, and strengthen existing areas of research in the Department. The candidate will be expected to participate in medical and allied health education and therefore must be committed to excellence in teaching. The applicant should also possess interpersonal and leadership skills in mentoring faculty, directing students, and performing administrative duties.

The Chair will oversee a department whose active research interests include molecular and transgenic approaches to the investigation of diabetes, cancer, heart disease, signal transduction, receptors, and ion channels. The department offers M.S., Ph.D., and M.D.-Ph.D. degrees, instructs second-year medical students, and provides undergraduate service courses to nursing students, and other allied health and non-majors. Further information is available at website: <http://www.und.nodak.edu/depts/pharmatox/home.htm>.

Applications are currently being accepted, and the search will remain open until the position is filled. Applicants should submit a detailed curriculum vitae; a statement that addresses administrative philosophy, research goals, and teaching interests; and the names and addresses of three references to: **Dr. Edward C. Carlson, Professor and Chair of the Department of Anatomy and Cell Biology and Chair of the Search Committee, c/o Office of the Dean, School of Medicine and Health Sciences, University of North Dakota, Box 9037, Grand Forks, ND 58202-9037.**

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

Applications and nominations are sought for the newly established position of **DIRECTOR** for the Center of Excellence in Oral and Craniofacial Biology and **ASSOCIATE DEAN** of Dental Research at Louisiana State University School of Dentistry in New Orleans. Qualified applicants should have a Ph.D. and/or D.D.S.-D.M.D. degree, a documented record of extramural research funding, and a national reputation. This individual should have strong interpersonal and effective communication skills and a willingness to promote research through coordination and collaboration with basic science and clinical investigators.

Applicants should send a letter of application, list of three references, and current curriculum vitae to:

Dr. John Burgess
Louisiana State University Medical Center
School of Dentistry
Chairman, Department of Operative Dentistry
and Biomaterials
Box 137
1100 Florida Avenue
New Orleans, LA 70119
E-mail: jburge@lsusd.lsu.edu
Telephone: 504-619-8543

Salary is commensurate with experience and credentials. *The Louisiana State University is an Equal Opportunity/Affirmative Action Employer.*

Biology. **EVOLUTIONARY/ECOLOGICAL GENETICIST.** Whitman College seeks a full-time, tenure-track **ASSISTANT PROFESSOR** of biology starting August 1999. Successful applicant will teach genetics, genetics laboratory, and a biological principles course covering genetics, physiology, and cell biology at the introductory level. Supervision of student research is also expected. Ph.D. required. Whitman College has a strong commitment to undergraduate teaching, research, and student advising in a liberal arts environment. Send curriculum vitae, three letters of recommendation, transcripts, and a statement of teaching and research interests to: **Dr. Kendra J. Golden, Chair of the Search Committee, Biology Department, 345 Boyer Avenue, Whitman College, Walla Walla, WA 99362. Telephone: 509-527-5210; FAX: 509-527-5904; e-mail: golden@whitman.edu. Closing date: February 15, 1999. Further information about Whitman College, website: <http://www.whitman.edu>. Candidates must be lawfully employable in this country as a result of citizenship, visa, or resident alien status. Equal Opportunity Employer.**

POSITIONS OPEN



ASSISTANT/ASSOCIATE PROFESSOR OF ORNITHOLOGY

The Department of Biology at Coastal Carolina University invites applications for a tenure-track position at Assistant/Associate Professor level in ornithology with emphasis in genetics, including molecular techniques, starting in August 1999. The successful candidate must possess a Ph.D. and a strong commitment to undergraduate education. In addition to an upper-level course in ornithology, teaching responsibilities will include introductory lectures and laboratories. The department seeks candidates to actively involve undergraduates in research projects and to participate in professional activities and community projects with the local Audubon Society. Each applicant should submit a letter of application, curriculum vitae, statement of teaching philosophy and research interests, and names, addresses, and telephone numbers of three (3) references to: **Dr. Joseph Pinson, Chair, Department of Biology, Coastal Carolina University, P.O. Box 261954, Conway, SC 29528-6054. Deadline for applications is February 15, 1999. For more information about the department, please visit our website: <http://www.coastal.edu/science/biology/bio.htm>.**

Coastal Carolina University is an Equal Opportunity/Affirmative Action Employer.

Two positions: marine vertebrate zoology and estuarine/wetlands ecology. The Department of Biology at The University of West Florida invites applications for two tenure-track faculty positions at the level of **ASSISTANT PROFESSOR**, available August 1999. We seek candidates with specialties in (1) marine vertebrate zoology having expertise in ichthyology/fisheries biology; (2) estuarine/wetlands ecology with emphasis in toxicology and/or population biology. Excellent candidates with proficiencies in other areas within the required specialties will be considered. The successful candidates are expected to teach at the lower division (e.g., general zoology, marine biology), offer additional courses in the specialty at both the undergraduate and graduate levels, and develop active research programs involving undergraduate and Master's students. Qualifications include Ph.D. and postdoctoral research experience. Teaching experience is desirable. Salary is based on qualifications and scales established by the SUS of Florida. Applicants should submit a statement of teaching and research interests, curriculum vitae, transcripts, and three letters of reference by February 15, 1999, to: **Dr. John P. Riehm, Chair, Department of Biology, The University of West Florida, Pensacola, FL 32514. E-mail: jriehm@uwf.edu. Additional information about the university and department can be found at our website: <http://www.uwf.edu>. The University of West Florida is an Equal Opportunity/Access/Affirmative Action Employer. Women and minorities are encouraged to apply.**

ASSISTANT/ASSOCIATE/FULL PROFESSOR IMMUNOLOGY AND VIROLOGY

The Yerkes Regional Primate Research Center at Emory University is seeking faculty for a new program in immunology and vaccinology. M.D., M.D.-Ph.D., or Ph.D. candidates with research interests in cellular and molecular immunology, neonatal immunology, or molecular pathogenesis are encouraged to apply. The program will be housed with the Emory Vaccine Center in a new 71,000-square foot research building on the Emory campus. Successful applicants will have the opportunity to build independent as well as interactive programs on cellular immunology and viral pathogenesis. Initial programmatic studies focus on the use of molecular as well as empirical approaches to develop an AIDS vaccine. Investigators will have the opportunity to use rodent as well as non-human primate models, and be encouraged to evaluate promising findings and vaccine approaches in humans. All appointments will be joint tenure-track appointments with departments at the Emory University School of Medicine. Applicants should send their curriculum vitae, names of four references, and a brief statement of research goals to: **Dr. Harriet L. Robinson, Chief of Microbiology and Immunology, Yerkes Regional Primate Research Center, Emory University, Atlanta, GA 30322. Visit our website: www.emory.edu. Equal Opportunity Employer/Affirmative Action.**

POSITIONS OPEN

BIOLOGY EDUCATOR ASSOCIATE/FULL PROFESSOR WRIGHT STATE UNIVERSITY

The Department of Biological Sciences invites applications for a tenure-track Associate or Full Professor specializing in biology education. This is a joint position between the Departments of Biological Sciences and Teacher Education in the Colleges of Science and Mathematics (67 percent) and Education and Human Services (33 percent). The successful applicant will interact with science educators in the Departments of Biological Sciences, Chemistry, Geological Sciences, Mathematics, and Physics and will help lead an emerging Science and Mathematics Educator Program at both the undergraduate and graduate levels. The applicant may also interact with centrally coordinated programs in Environmental Sciences. Teaching may include biology courses for elementary and secondary education majors, general education undergraduates, as well as biology majors at the undergraduate and graduate levels. Candidates must have a graduate degree in biology (or the equivalent) and a Ph.D. or Ed.D. Experience in teaching precollege science is desirable. The successful applicant is expected to have demonstrated scholarship in science education and the ability to obtain extramural funding. A letter of application, curriculum vitae, statements of scholarship and teaching interests, and names of three references should be sent to: **Biology Educator Search Committee, Department of Biological Sciences, Wright State University, Dayton, OH 45435. Review of applications will begin February 1, 1999. Wright State University is an Affirmative Action/Equal Opportunity Employer. For further information see website: <http://biology.wright.edu>.**

Tenure-track faculty position. Insect molecular physiology. The Department of Entomology at the University of Missouri-Columbia invites applications for a tenure-track faculty position in insect molecular physiology at the **ASSISTANT PROFESSOR** level. This position will have departmental responsibilities in both research (80 percent) and teaching (20 percent). We seek individuals with proven success in applying modern molecular and biochemical approaches to physiologically based insect research, especially with implications for development and sustainability of transgenic insecticidal crops. The successful candidate will develop a nationally recognized research program with extramural funding, and forge linkages with researchers in existing plant and crop genomics interdisciplinary groups on campus and in the state. Expectations include teaching a graduate-level course in insect physiology, an additional course in area of interest, and direction of graduate students. A Ph.D. in entomology or closely allied field is required. Postdoctoral experience or evidence of accomplishments in research and teaching are highly desirable. Send curriculum vitae, transcripts, reprints of representative publications, statement of research and teaching interests, and arrange for three letters of reference to be sent to: **Dr. Elaine A. Backus, Chair, Insect Molecular Physiologist Search Committee, Department of Entomology, 1-87 Agriculture Building, University of Missouri, Columbia, MO 65211. Initial screening of applications will begin on April 15, 1999, and continue until the position is filled.**

FOOD/NUTRITION TOXICOLOGY

ASSISTANT/ASSOCIATE PROFESSOR. The Department of Nutrition and Food Science, University of Maryland, invites applications for a nine and a half-month tenure-track research/teaching position. Applicants must have a Ph.D. in food science, nutrition, toxicology, or related discipline; postdoctoral research in food or nutrition toxicology is preferred. Responsibilities include (1) establish an independent research program on some aspect of food/nutrition toxicology using molecular biological methods for the detection and/or analysis of food toxicants or bioactive compounds; (2) teach undergraduate and graduate courses in nutrition and food toxicology. Send curriculum vitae, statement of research and teaching interest, academic transcripts, and three letters of references to: **Dr. Thomas W. Castonguay, Department of Nutrition and Food Science, Room 3304 Marie Mount Hall, University of Maryland, College Park, MD 20742-7521. For best consideration, apply by March 15, 1999. Applications will be continually processed until position is filled. For additional information, visit our website: www.agnr.umd.edu/jobs/.**

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



Post-Doctoral Viral Immunologist Respiratory Virus Infections

SmithKline Beecham, a worldwide leader in pharmaceutical research, has a challenging opportunity within the Department of Molecular Virology and Host Defense.

The candidate will have responsibilities for establishment of new research initiatives in viral pathogenesis, with a focus on immunopathology and the development of novel therapeutic strategies. The candidate will be expected to participate in collaborative research efforts which address host/virus interactions at the cellular and molecular levels, and to define viral models for profiling selective anti-inflammatory agents.

Qualified candidates will have a Ph.D. in molecular immunology, immunopharmacology, molecular virology, or a related field. Expertise with small animal models of respiratory viral infection, or pulmonary inflammation is required. Experience with virus/host interactions, the role of the immune response in the pathogenesis of viral infections, or closely related areas is desirable. The successful candidate

will possess excellent organizational, communication and computer skills, as well as the ability to work effectively with individuals of varied backgrounds and disciplines.

Located in a state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation/benefits/relocation package, as well as a stimulating work environment. For confidential consideration, please forward a resume and salary requirements to: SmithKline Beecham Pharmaceuticals, Job Code: C8PDVI, PO Box 40047, Philadelphia, PA 19106. Indicating Job Code is essential. For more information and to apply online, visit our website at www.sb.com/careers

Realize Your Potential



SmithKline Beecham
Pharmaceuticals

Developing talent through equality of opportunity, M/F/D/V

NATIONAL INSTITUTES OF HEALTH NATIONAL INSTITUTE ON DRUG ABUSE DIRECTOR

Division of Basic Research
A Senior Executive Service Vacancy
Location: Rockville, Maryland

The National Institute on Drug Abuse (NIDA) is recruiting for the position of Director, Division of Basic Research. Annual salary range from \$106,412 to \$125,900 (MDs may be eligible for other special pays). This individual directs an extramural program of basic biomedical, behavioral and neuroscience research in the area of drug abuse and addiction. Responsibilities will include developing and administering a national program of basic research through grants and contracts with universities and medical centers, concerned with such areas as the effects of drugs on the CNS, brain mechanisms underlying addictive behaviors and long-term consequences, and behavioral and physiological factors related to drug use and addiction. Applicants must possess a Ph.D. or M.D. with research experience.

Persons interested in this position may call Dr. Barry Hoffer at 410-550-1538. For more information on the application process, please contact Ms. Lynn C. Hellinger (see below). Applications should be submitted and postmarked no later than February 19, 1999 to:

Ms. Lynn C. Hellinger
Director, Office of Human Resources Management, NIAID
Building 31, Room 7A20
31 Center Drive MSC-2520
Bethesda, Maryland 20892-2520
Phone: 301-496-9686
e-mail: lhellinger@nih.gov

Further information on this position may be found at:

<http://helix.nih.gov:8001/jobs/> or <http://www.nida.nih.gov/employment.html>

NIH IS AN EQUAL OPPORTUNITY EMPLOYER



POSITIONS OPEN

TENURE-TRACK ASSISTANT PROFESSOR DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY Wright State University

The Department of Microbiology and Immunology at Wright State University invites applications for a 12-month tenure-track Assistant Professor. The appointment will be in both the College of Science and Mathematics and the School of Medicine. Applicants should have a Doctorate from an accredited institution and at least two years of relevant postdoctoral training. Preference will be given to candidates whose research interests will augment existing departmental strengths in reproductive immunology and reproductive cell and molecular biology. Individuals investigating infectious diseases or cytokine functions related to pregnancy are encouraged to apply. The successful applicant will have evidence of productive research, be expected to develop an independent, extramurally funded research program, and will participate in undergraduate, graduate, and professional teaching programs. A competitive salary, research space, and start-up package are available. Applicants should send a curriculum vitae, the names and addresses of three references, and a summary of research plans to: **Dr. Neal S. Rote, Professor and Chair, Department of Microbiology and Immunology, 002 MMB, Wright State University School of Medicine, 3640 Colonel Glenn Highway, Dayton, OH 45435. Website: www.med.wright.edu/som/academic/micro/micro6.html.** Review of applications will begin March 1, 1999, and continue until a suitable candidate is selected.

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

MOLECULAR AND CELL BIOLOGY OF CANCER

The Department of Microbiology and Molecular Cell Biology seeks applications for a faculty member at the rank of **ASSOCIATE PROFESSOR/PROFESSOR** (tenure-track). The successful candidate is expected to enhance the research programs in the Department, as well as the Virginia Prostate Center. The department has existing strengths in cell and molecular biology, cancer, immunology, and virology. The Virginia Prostate Center provides lucrative collaborative opportunities for basic as well as translational research. We are especially interested in candidates with research strengths in molecular and cell biology of prostate cancer, but welcome applicants using molecular and cellular approaches within the broad area of cancer biology. In addition to maintaining an aggressive extramurally funded research program, the successful candidate will also be expected to participate in medical and graduate student teaching. Excellent laboratory and clinical facilities and an attractive start-up package are available. Interested individuals should send their curriculum vitae, a brief statement of major academic/research accomplishments, and the names, addresses, and telephone numbers of three references to: **Dr. Timothy Bos, Department of Microbiology and Molecular Cell Biology, Eastern Virginia Medical School, 700 West Olney Road, Norfolk, VA 23507.** For full consideration, application materials should be received by March 1, 1999. *EVMS is an Equal Opportunity/Affirmative Action Employer.*

Biomaterials chemistry. Indiana University-Purdue University Indianapolis. The Department of Chemistry seeks to fill a position in the area of biomaterials at the tenure-track **ASSISTANT PROFESSOR** level or, for exceptional candidates, at higher rank. Applicants with a Ph.D. in chemistry or chemical engineering should have demonstrated the ability to initiate and carry out vigorous research in the synthesis/study of polymers or other materials with biomedical applications, and to be innovative and effective in undergraduate and graduate teaching. The successful candidate will be able to participate in interdisciplinary campus programs in biomaterials involving engineering and medicine. Applicants should submit a curriculum vitae, research plans, and a list of required instrumentation and facilities. Candidates must have three letters of recommendation sent to: **Paul Dubin, Chairman, Biomaterials Search, Department of Chemistry, Indiana University-Purdue University Indianapolis, 402 North Blackford Street, Indianapolis, IN 46202-3274.** Candidates are assured full consideration if all required materials are received by February 26, 1999. However, the search will remain open until the position is filled. *IUPUI is an Equal Employment Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

PARASITOLOGY EMERGING DISEASES GENOMICS

The newly formed Center for Tropical and Emerging Global Diseases (CTEGD) at the University of Georgia seeks to fill two tenure-track faculty positions at the **ASSISTANT PROFESSOR** level in the area of molecular aspects of parasites and other agents of emerging diseases. Emphasis for at least one of the positions will be for an individual with interests and expertise in bioinformatics and/or functional genomics as applied to the study of parasites. The incumbents will be expected to develop internationally recognized and externally funded research programs, to assist in the continued development of the CTEDG, and to contribute to instructional programs in the University. The academic home for these appointments will be in either the Department of Cellular Biology in the College of Arts and Sciences or in a department within the College of Veterinary Medicine. The CTEDG is a cross-college collaborative unit with links to the Centers for Disease Control and the Emory Vaccine Center (see website: <http://www.uga.edu/ctegd> for additional information). Applicants should send a current curriculum vitae, statements of research and teaching interests, and three to four letters of reference to: **Parasitology Search Committee, Department of Cellular Biology, University of Georgia, Athens, GA 30602.** Applications received by March 15, 1999, are assured of consideration. *The University of Georgia is an Equal Opportunity/Affirmative Action Employer. Minority and female applicants are encouraged to apply.*

ASSISTANT/ASSOCIATE PROFESSOR of infectious and immunologic disease. The University of California, Davis School of Medicine is recruiting a full-time faculty member. Act as **DIRECTOR** for The Center for AIDS Research, Education, and Services (CARES). CARES is a not-for-profit, community-based clinic that cares for approximately 1,200 HIV-infected individuals. The position requires demonstrated leadership abilities, national or international stature in subspecialty, strong clinical skills, excellence in teaching, and an ability to integrate the program with campus resources. Candidates must be Board-certified in internal medicine and the subspecialty of infectious and immunologic disease and be eligible for licensure in the State of California. Please forward curriculum vitae to: **Ruth Lawrence, M.D., c/o Julie Mustard, Department of Internal Medicine, University of California, Davis, Medical Center, 4150 V Street, Suite 3100, Sacramento, CA 95817-9002.** This position is open until filled but no later than April 30, 1999. *The University of California is an Affirmative Action/Equal Opportunity Employer.*

The Department of Biology invites applications for a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** level in environmental biology. Duties include teaching ecology and conservation to majors and building a nascent environmental science program. Expertise in plant science or field biology is preferred. The position will also involve teaching general biology and/or other departmental courses that complement the strengths of the existing faculty; advising students; and recruiting and supervising student research. The successful candidate will possess a Ph.D., or equivalent, and teaching experience. The University of Indianapolis, with an enrollment of 4,000 students, is an independent, church-related institution with a strong commitment to the liberal arts. Applicants should send a cover letter, curriculum vitae, transcripts, and names of three references to: **Search Committee, Department of Biology, University of Indianapolis, 1400 East Hanna Avenue, Indianapolis, IN 46227.** Review of applications will begin February 15, 1999. *Affirmative Action/Equal Opportunity Employer.*

UNIVERSITY OF FLORIDA

Seeks an **ASSISTANT SCIENTIST/RESEARCH ASSISTANT PROFESSOR** in the Department of Medicine, Division of Nephrology. Ph.D. degree and have at least five years of postdoctoral research experience in molecular biology, preferably with experience in mammalian gene expression. This position will investigate the regulation of expression and molecular biology to transport enzymes in the kidney. Salary and benefits commensurate with experience. Recruiting deadline January 26, 1999. Anticipated starting date February 16, 1999. Please reply with curriculum vitae to: **Charles Wingo, M.D., Professor, Box 100224, JHMHC, Gainesville, FL 32610.** *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

The Division of Autoimmune and Molecular Diseases, Department of Pediatrics at Columbia University, seeks applications for the tenure-track position of **ASSISTANT PROFESSOR**, available July 1999. Applicants must hold an M.D. and be Board-certified/Board-eligible Rheumatologist with at least two years of experience with the design, execution, and interpretation of linkage and quantitative trait loci analysis in autoimmunity and tolerance in human diseases and/or animal models of these diseases, preferably collagen-induced arthritis, and have experience with breeding congenic lines. A valid temporary or permanent New York State medical license and one year or more of documented significant teaching experience on the medical school level are necessary. Applicants' credentials must include evidence of a significant bibliography in autoimmune disease research and documented grant writing skills to show they are competitive for RO1-based support. Working knowledge of immunologic and genetic laboratory techniques and software necessary to perform these analyses is expected. Send a curriculum vitae, a brief description of research experience, and names of three references to: **Dr. Robert Winchester, Director, Division of Autoimmune and Molecular Diseases, Department of Pediatrics, PH 4-477, 620 West 168th Street, New York, NY 10032.** *Columbia University is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.*

MOLECULAR NEUROSCIENCE UNIVERSITY OF WISCONSIN-MILWAUKEE

The Department of Biological Sciences at the University of Wisconsin-Milwaukee solicits applications for a tenure-track position in molecular neuroscience. We seek an **ASSISTANT PROFESSOR** with postdoctoral experience and strong training in molecular biology that will complement the research interests of current faculty in cellular/developmental neurobiology, behavioral neuroscience, or neuroendocrinology. We expect the successful candidate to establish an independent, extramurally funded research program that contribute to departmental teaching. Send a current curriculum vitae, a concise statement of research and teaching goals, and three letters of recommendation to:

**Chair, Molecular Neuroscience Search Committee
Department of Biological Sciences, Box 413
University of Wisconsin-Milwaukee
Milwaukee, WI 53201**

Applications must be received by February 19, 1999, for full consideration. The names of those applicants who have not requested that their identity be withheld and the names of all finalists will be released upon request. *The University of Wisconsin-Milwaukee is an Equal Opportunity/Affirmative Action Employer.*

Tenure-track faculty position at the **ASSISTANT or ASSOCIATE PROFESSOR** level in the Department of Biomedical Sciences of the Ohio University College of Osteopathic Medicine. Primary responsibilities are to teach organ system physiology in a clinically oriented, innovative medical curriculum and to develop an externally fundable research program. Priority will be given to individuals whose expertise relates to some aspect of renal or endocrine physiology and who will be able to interact effectively with colleagues in the area of molecular biology. A Ph.D. (or equivalent) and appropriate postdoctoral training or experience is required. The appointment is to begin in the fall of 1999. The 11-month salary will be commensurate with experience, and is accompanied by an excellent benefits package. Review of applications will begin February 15, 1999, but applications may be tendered until the position is filled. Submit a statement of career interests, a curriculum vitae, representative reprints, and three (3) letters of recommendation to: **John N. Howell, Ph.D., Search Committee Chair, Department of Biomedical Sciences, Ohio University College of Osteopathic Medicine, 304 Grosvenor Hall, Athens, OH 45701. E-mail: howell@ohiou.edu.**

Ohio University is an Affirmative Action/Equal Opportunity Employer.

MAMMARY GENOME ANATOMY PROGRAM (MGAP)

A program on signaling pathways in mammary gland development and neoplasia is in place in the Laboratory of Genetics and Physiology at the National Institutes of Health in Bethesda, Maryland. We have three job openings in functional genomics, bioinformatics, and mouse modeling. Additional information at website: <http://mammary.nih.gov/discovery/>.

CENTER FOR SCIENTIFIC REVIEW NATIONAL INSTITUTES OF HEALTH

The Center for Scientific Review (CSR) wants to identify research scientists who are interested in serving as a **Supervisory Scientific Review Administrator (GS-15)**. The duties of the position include supervising Scientific Review Administrators and support staff in the Oncological Sciences Initial Review Group (IRG); assigning research grant applications to individual study sections of the IRG best qualified to evaluate the scientific value and adequacy of the proposed research, and managing a study section which assesses the scientific merit of assigned grant applications.

Those interested in applying should have research experience related to the studies of mutagens, carcinogens and proteins in cell culture systems designed to study transformation (initiation, promotion and progression), in such systems, emphasis should be placed on studies concerned with the transition from basic studies to clinical applications. Moreover, candidates should have experience in studies on the cellular, genetic and molecular mechanisms of radiation induced DNA damage and methods by which nutrients modulate tumorigenesis and chemoprevention. Candidates who have experiences in pre-clinical and/or clinical therapeutic studies in which clinician-investigators directly interact with human subjects with therapeutic intent will also be considered for these positions.

Applicants must be U.S. citizens, have earned the Ph.D. or M.D. (or have equivalent training and experience) and a record of research accomplishment. Salaries for these positions range from \$80,658 to \$104,851 per year depending on qualifications.

Please submit curriculum vitae and the names of three references by February 8, 1999 to:

Jean K. Paddock, Ph.D.
Center for Scientific Review
National Institutes of Health
6701 Rockledge Drive
Room 5100, MSC 7852
Bethesda, MD 20892-7952
E-mail - paddockkj@CSR.NIH.GOV

Selection for this position will be based on merit, with no discrimination for non-merit reasons, such as race, color, sex, national origin, marital status, age, sexual orientation, or membership/non membership in an employee organization.

CENTER FOR DISCOVERY OF DRUGS AND DIAGNOSTICS (CD³) University of Central Florida

This newly formed Center is seeking to appoint a **TENURE-TRACK ASSISTANT or ASSOCIATE PROFESSOR** to begin in August 1999 or later. An appointment as full professor would be considered for exceptional candidates. **CD³** is dedicated to becoming a national leader in areas of research relevant to the discovery of new drugs and diagnostics. A major goal is to develop industrial liaisons to assist UCF in its objective of becoming America's leading partnership university. **CD³** members have appointments in appropriate Departments and Schools within the University (Chemistry, Biology, Molecular Biology and Microbiology, Physics, Optics, and Computer Sciences). In addition, the Center operates three core laboratories (Screening, Genomics and Natural Products). The successful candidate will have a Ph.D. and at least three years broad-based post-doctoral experience in one or more areas relevant to the development of new assays such as enzymology, biochemistry, cell signal transduction, virology, yeast genetics or high-throughput screening. They will be expected to establish a vigorous, independent research program with external funding and to participate in collaborative and multidisciplinary approaches to developing new technology. It is anticipated that candidates at the associate professor level or above will already have extramural funding. The appointee will share the University's commitment to excellence in undergraduate and graduate teaching and will help guide the development of the Core Screening Laboratory.

Applications should be received by March 1st. Candidates should submit a curriculum vitae and the names of three references along with a brief summary of past research, and a statement of proposed research relating to assay development (no more than three pages) to: **Dr. John Goodchild, Director, Center for Discovery of Drugs and Diagnostics, University of Central Florida, Orlando, FL 32816.**

UCF is an Equal Opportunity Employer/Affirmative Action Employer. As an agency of the State of Florida, UCF makes all application materials, including transcripts used in final screening, available to the public upon request.

FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY

Executive Director

The Federation of American Societies for Experimental Biology (FASEB) invites applications and nominations for the position of Executive Director to begin service on or after June 1, 1999.

The mission of FASEB is to enhance the ability of biomedical and life scientists to improve, through their research, the health, well-being, and productivity of all people. FASEB is a coalition of independent Member Societies that represents the interests of biomedical and life scientists, particularly those related to public policy issues. FASEB facilitates coalition activities among Member Societies and disseminates information on biological research through scientific conferences and publications. FASEB also offers Member Societies headquarters facilities, and operational and logistic support.

Founded in 1913, FASEB now includes 17 biomedical and life science societies with an aggregate membership of more than 52,000 scientists.

Located on a campus of approximately 11.5 acres in Bethesda, Maryland, the facilities include 128,000 square feet of office accommodation, and a conference center accommodating meetings of up to 150 participants. A plan to explore expansion of the facilities by new construction providing 42,000 additional square feet of office space has been approved.

The Executive Director reports directly to the President and Board of Directors and serves as the Chief Operating Officer of FASEB, providing leadership and direction to approximately 110 professional, technical and clerical support staff, and managing an annual operating budget of approximately \$14 million. The primary responsibilities of the Executive Director include recruitment and direction of key staff; management of resources to ensure required support for the programs and activities of the Member Societies; development of new facilities to ensure that the services provided by FASEB remain at the leading edge of technology; oversight of public policy issues; and maintenance of an effective coalition through liaison with various Member Society staffs.

Qualified applicant should have executive/administrative experience in planning and resource allocation with a record of achievement and leadership in management of academic, association or other non-profit organizations. The Executive Director must have the ability to work in a multi-centered environment, a commitment to coalition building, an interest in the applications of technology to the management of associations and familiarity with public policy issues of importance to biomedical and life scientists.

Qualified candidates should send resume with covering letter in confidence by March 15, 1999, to:

William R. Brinkley Ph.D.
FASEB President
Attn: Human Resources
9650 Rockville Pike
Bethesda, MD 20814
FAX: 301-571-0684

To view history, activities, benefits and a complete job description see our web site at: <http://www.faseb.org>
EOE

POSITIONS OPEN

TENURE-TRACK ASSISTANT PROFESSOR BIOLOGICAL PHYSICS

Applications are invited for a tenure-track Assistant Professor position in biological physics in the Department of Physics and Astronomy. An exceptionally qualified person at a more senior level will be considered. There are no restrictions on the subfield of biological physics; the successful candidate will be expected to establish a leading, independent research group, and to be highly effective in teaching at the undergraduate and graduate levels. Submit a résumé and the names and addresses of three references to: **John P. Wikswo, Department of Physics and Astronomy, Vanderbilt University, Box 1807 Station B, Nashville, TN 37235. Telephone: 615-343-4124; FAX: 615-322-4977; e-mail: john.wikswo@vanderbilt.edu; website: <http://www.vanderbilt.edu/AnS/physics>.** Review of applications will begin on January 15, 1999, and will continue until the position is filled. *Vanderbilt University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are particularly encouraged to apply.*

MICROBIAL ECOLOGIST RUTGERS UNIVERSITY

The Department of Biochemistry and Microbiology at Rutgers University invites applications for an **ASSISTANT PROFESSOR** tenure-track position to start September 1, 1999. Applicants should have research interests in microbial ecology and experience in microbial physiology, molecular biological methods, and the isolation and identification of organisms from a wide variety of environments. The successful candidate will be expected to establish an active, externally funded research program, to teach microbial ecology, and to participate in other graduate and undergraduate-level courses. Send letter of interest, curriculum vitae, statement of research interests, and the names, telephone and FAX numbers, and e-mail addresses for at least three references to: **Dr. Gerben Zylstra, Search Committee Chair, Department of Biochemistry and Microbiology, Rutgers University, 76 Lipman Drive, New Brunswick, NJ 08901-8525.** Review of applications begins March 1, 1999, and continues until the position is filled. *Rutgers University is an Affirmative Action/Equal Opportunity Employer. Applications from women and ethnic minorities are especially welcome.*

DIRECTOR of The Center for the Neurobiology of Learning and Memory (CNLM), University of California Irvine (UCI). We seek an outstanding Senior Neuroscientist for the position of Director of the CNLM, an internationally recognized multidisciplinary research institute. The new Director will have the opportunity to expand the Center's research programs and is expected to have a leadership role in UCI neuroscience. The Center's research complex consists of two laboratory buildings and conference center comprising approximately 50,000 square feet of space. The Director will hold an academic appointment in the Department of Psychobiology. Candidates should have a distinguished active research program focused on the neurobiology of learning and memory and administrative experience. Salary will be commensurate with experience and accomplishments. A statement of research goals, an explanation of administrative experience, a curriculum vitae, and the names of five references should be mailed to: **Dr. Norman M. Weinberger, Chair, Director's Search Committee, Center for the Neurobiology of Learning and Memory, University of California, Irvine, CA 92697-3800.** While there is no closing deadline, candidates are encouraged to submit their applications by March 5, 1999. *UCI is an Equal Opportunity Employer committed to excellence through diversity.*

BIOMETRICIAN POSITION. Texas Parks and Wildlife Department. Responsibilities: statistical consulting, including experimental design, database management, data analysis and interpretation, programming, and system support for Inland Fisheries Division. Qualifications: minimum of Master's degree in statistics with coursework in biological/social sciences; or Master's in fisheries or related biological sciences with substantial coursework in statistics (more than 18 semester/quarter hours). Minimum of four years of experience with data analysis and management; strong knowledge of statistical principles and computer software with applications to complex biological systems. Must publish scientific papers and have good interpersonal skills. Closing date: February 12, 1999. Salary: \$3,814 per month. Contact: **Dick Luebke, Heart of the Hills Research Station, Telephone: 830-866-3356; e-mail: rw1@kctc.com.**

POSITIONS OPEN

SYLVESTER

Comprehensive Cancer Center
UNIVERSITY OF MIAMI HOSPITAL AND CLINICS

RESEARCH ASSOCIATE TWO POSITIONS

B.S. degree in biology, biological sciences, life sciences, or other related field. Two years of work-related experience in basic science and clinical laboratory research directly related to cancer research and specifically related to the responsibilities. Experience with maintaining and analyzing transgenic mice would be highly desirable.

Experience in maintaining and ordering laboratory equipment and supplies. Must be able to perform independently. Excellent skills in English (both verbal and written) required. Individual will be responsible for scheduling and performing experiments in leukemia and solid tumor cells research. Send résumés to: **Desiree Uptgrow, Sylvester Comprehensive Cancer Center, P.O. Box 019132 (M877), Miami, FL 33101. E-mail: duptgrow@med.miami.edu.** *Equal Opportunity Employer/Affirmative Action.*

MARINE BIOCHEMIST UNIVERSITY OF DELAWARE Graduate College of Marine Studies

The Graduate College of Marine Studies (CMS) at the University of Delaware invites applications for a tenure-track **ASSISTANT PROFESSOR** position in marine biochemistry. The successful candidate will be expected to develop an innovative externally funded research program focusing on biochemical processes involving marine organisms and to contribute to graduate education through teaching and advisement of students. We are especially seeking candidates who can interface with others at CMS and with faculty in other academic units. We anticipate that the candidate will start in the fall semester of 1999. Interested individuals should send a curriculum vitae, a statement of research and teaching interests, and the name, address, telephone, FAX, and e-mail contacts for at least three references to: **John L. Gallagher, Graduate College of Marine Studies, University of Delaware, 700 Pilottown Road, Lewes, DE 19958-1298.** Applications will be accepted until 15 February 1999. Information about CMS can be found at website: <http://www.ocean.udel.edu>.

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

ASSISTANT PROGRAM DIRECTOR ANIMAL PROGRAMS

The USDA's National Research Initiative Competitive Grants Program (NRICGP) seeks an Assistant Program Director for grants administration in the animal research area. The incumbent will assist in developing and managing programs and procedures for the Animals Division of the NRICGP. Candidates must have an advanced degree (M.S., Ph.D., or D.V.M.) with major study in general animal science or veterinary medicine, or related disciplines such as animal molecular genetics, reproduction, nutrition, microbiology, epidemiology, toxicology, food safety, or food science. *Candidates must be U.S. citizens.*

Applications must be postmarked by February 1, 1999. For program information contact: **Dr. Peter Johnson, Telephone: 202-401-1896; e-mail: pjohnson@reusda.gov.** For information on application procedures contact: **The USDA Human Resources Division, Telephone: 202-720-6130.** A copy of the vacancy announcement is available at website: <http://www.ars.usda.gov/afm/hrd/vacancy/99-021.htm>. *USDA is an Equal Opportunity Employer.*

A RESEARCH SCIENTIST/MOLECULAR BIOLOGIST position is available in the Department of Cardiovascular Pathology at the Armed Forces Institute of Pathology in Washington, D.C. Emphasis is on the study of mechanisms of sudden cardiac death. Applicants must hold either a Ph.D. or M.D. and have at least two years of postdoctoral experience in vascular biology or cancer research. Located in N.W. Washington, D.C. near Rock Creek Park. Send curriculum vitae and three letters of support to: **Department of Cardiovascular Pathology, Armed Forces Institute of Pathology, Alaska and 14th Street N.W., Building 54, Room 2005, Washington, DC 20306-6000, Attention: Bonnie Weissfeld.** Please include salary history and current requirement.

POSITIONS OPEN

USDA, REE, Agricultural Research Service—Northern Plains Area, Arthropod-Borne Animal Diseases Research Laboratory (ABADRL) at Laramie, Wyoming seeks a permanent full-time scientist with demonstrated expertise in veterinary medicine, microbiology, or medical/veterinary entomology to serve as **RESEARCH LEADER**. The incumbent will be responsible for all aspects of ABADRL management including research on arthropod-transmitted viral pathogens of domestic animals; fiscal and administrative accountability; interaction with USDA administrators and cooperators in universities and industry. The incumbent will maintain a research program in his/her area of specialty. *U.S. citizenship and a D.V.M., Ph.D., or equivalent is desired.* Salary commensurate with experience (\$64,998 to \$99,397). Comprehensive benefits package includes paid sick and annual leave, life and health insurance, and a savings and investment plan (401(k) type) is available with the Federal retirement plan. For information on the research program and/or position contact: **Dr. Will Blackburn, Telephone: 970-229-5557; e-mail: blackbuw@ars.usda.gov.** A copy of the vacancy announcement will be available on the ARS website: www.ars.usda.gov/afm/hrd/resjobs. For information on application procedures contact: **Telephone: Jan Jones, 970-229-5502.** Applications will be accepted January 4, 1999, to March 1, 1999. Applications should be mailed to: **USDA, ARS, HRD, WOB, 5601 Sunnyside Avenue, Beltsville, MD 20705-5106.** Applications must be postmarked by March 1, 1999. *The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital and family status. Persons with disability who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact: USDA's TARGET Center, Telephone: 202-720-2600 (voice or TDD). To file a complaint of discrimination, write: USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue S.W., Washington, DC 20250-9410. Telephone: 202-720-5964 (voice or TDD). USDA is an Equal Opportunity Provider and Employer.*

EXECUTIVE DIRECTOR PITTSBURGH TISSUE ENGINEERING INITIATIVE, INC.

The Pittsburgh Tissue Engineering Initiative, Inc. (PTEI) is seeking an Executive Director to lead the organization into its next phase of development. The successful candidate will be a proven leader with either an M.D. or Ph.D. degree and experience in both tissue engineering research and fundraising. PTEI is a nonprofit, supporting organization for five research institutions in western Pennsylvania: Allegheny University of the Health Sciences, Carnegie Mellon University, Duquesne University, the University of Pittsburgh, and the University of Pittsburgh Medical Center. PTEI's mission is to promote academic collaborations leading to viable tissue engineering technologies and to educate the public about the emerging field of tissue engineering. In support of these goals, PTEI provides grants for early technology development in tissue engineering and sponsors several important educational programs, including a monthly Seminar Series for research professionals and biotechnology entrepreneurs; a competitive Summer Internship Program for undergraduate students; and a Biotechnology Exposure Program for students in grades K-12. The Executive Director will represent PTEI to the research and general community; interface with university, political, and community leaders; guide key scientific collaborations; and be involved with national and international tissue engineering collaborative activities. Compensation will be commensurate with experience. For consideration, send curriculum vitae to: **Anne Immekus, Administrator, PTEI, 425 Sixth Avenue, Suite 1810, Pittsburgh, PA 15219.** For more information on PTEI, visit our website: www.pittsburgh-tissue.net. The search will remain open until an appointment is made.

PROJECT LEADER. Immediate opening for Ph.D. in protein chemistry with zero to three years in applied research, or equivalent, and at least two years of experience immobilizing proteins on metals. Demonstrated ability to work independently on interdisciplinary technologies. *Must be U.S. citizen.* Unusual opportunity to profit from growth of new company; attractive benefits package. Send résumé, salary requirements to: **Biophraxis, P.O. Box 910078, San Diego, CA 92191-0078. FAX: 619-452-2416.** *Equal Opportunity Employer.*

Functional Genomics Special Postdoctoral Positions

The University of Cincinnati Program of Excellence in Molecular Biology of the Heart and Lung, funded by the National Heart, Lung and Blood Institute of NIH, has as its goal the application of molecular genetic approaches to study heart and lung function. The Program is open to Ph.D.s, M.D.s or M.D/Ph.D.s with training in molecular biology who wish to apply their skills to significant problems of heart or lung or to individuals with strong backgrounds in heart and lung who wish to develop molecular tools for continued study of these problems. We are particularly interested in recruiting underrepresented individuals to the Program. Stipends are very competitive with an excellent benefit package. The faculty and their interests are described below. The Program is limited to US Citizens and permanent residents.

Jerry B Lingrel *Na,K-ATPase gene regulation, knockout and replacement studies and structure-function studies. Role of transcription factors in lung and erythroid development.*

Jeffrey Whitsett *Molecular biology of lung development, surfactant homeostasis, host defense and lung specific expression.*

Paul Rosevear *Structure/function relationships in cardiac muscle using NMR and biochemical techniques.*

Gary Shull *Role of ion-transport proteins in cardiac function and control of arterial blood pressure using gene targeting technology.*

Jeffrey Robbins *Targeted modification of the cardiac contractile proteins and growth and developmental control of cardiac muscle.*

Steven Potter *Manipulating genes important in heart and lung development by insertional mutagenesis and targeted modification in ES cells.*

Thomas Doetschman *Role of growth and differentiation factors in the development and function of heart and lung using targeted gene modification in the mouse.*

Anil Menon *The genetics of human cardiovascular disease.*

Stephen Liggett *Molecular biology, pharmacology and structure/function of cardiopulmonary adrenergic receptors.*

Applicants should submit a C.V. and the names of three references to **Jerry B. Lingrel, Ph.D. Director, Program of Excellence in Molecular Biology, Department of Molecular Genetics, Biochemistry and Microbiology, University of Cincinnati, College of Medicine, 231 Bethesda Avenue, Cincinnati, Ohio 45267-0524.** For more information, <http://www.molgen.uc.edu/poe.htm>

Affirmative Action/Equal Opportunity Employer.

NATIONAL CANCER INSTITUTE (NCI) DIVISION OF CANCER TREATMENT AND DIAGNOSIS (DCTD) DEVELOPMENTAL THERAPEUTICS PROGRAM (DTP)

INFORMATION TECHNOLOGY BRANCH
SUPERVISORY CHEMIST/SUPERVISORY BIOLOGIST
GS-1320/401-15

ANNOUNCEMENT NUMBER: CA-98-2343

The NCI is accepting applications for the position of Chief, Information Technology Branch, Developmental Therapeutics Program (DTP), located in Rockville, Maryland. We are seeking applicants experienced in medicinal chemistry, organic chemistry, or biologic science with expertise in computational and/or mathematical modeling of biological and chemical information. The Information Technology Branch provides automated data processing support to the DTP and collects and manages the structural, chemical, inventory, shipping, biological testing and management support data associated with the various DTP programs. The Branch has responsibilities for (1) providing laboratory computer support for drug screening; (2) developing and maintaining automated quality control systems for screening operations to facilitate technical review and enhance operational efficiency; (3) developing and establishing data handling, storage and retrieval systems; (4) studying operational data processing needs of the DTP and recommending new methods where necessary; (5) maintaining and operating a repository of drug screening data; (6) maintaining an interactive Website for public access for DTP data; and (7) pro-actively utilizing the most modern informatics approaches for management, interpretation, and use by extramural investigators of DTP information. The incumbent of position will serve as Branch Chief with responsibility for the planning and direction of the Branch's projects and activities. This position requires a creative approach to problems, a capacity for extensive planning and evaluation, and an ability to apply sound scientific judgment.

Salary - \$77,798 - \$101,142

Benefits - Health and life insurance options, retirement, paid holidays, vacation and sick leave.

U.S. citizenship is required. Applicants must meet the basic experience and educational qualification requirements for Chemist and/or Biologist. In order to assess your qualifications, please address the following rating criteria: 1) Knowledge of chemical structure databases and biological databases; 2) Ability to plan and direct projects for conducting research regarding information technology; and 3) Ability to provide managerial and supervisory leadership to other professional staff.

For further qualification requirements, application procedures, and other additional information, please contact the NCI Staffing Office at (301) 401-2812. Please submit either an application for Federal Employment or a resume to: National Cancer Institute, Human Resource Management & Consulting Branch, 6120 Executive Boulevard MSC 7211, Executive Plaza South, Suite 550, Rockville, MD 20852-7211 by the closing date of 03/07/99.

NIH is an Equal Opportunity Employer

POSITIONS OPEN

ASSOCIATE DIRECTOR FOR MARINE ADVISORY MARINE EXTENSION SERVICE

The University of Georgia's Marine Extension Service seeks an Associate Director for Marine Advisory for its coastal Brunswick Marine Advisory and Seafood Technology Center. The Associate Director answers to the Director of the Marine Extension Service (MAREX). MAREX is the public service and outreach component of the School of Marine Programs. This position will require the administration of a permanent staff of nine full-time and three part-time employees. Major programs are designed to enhance the efficiency and effectiveness of seafood processors, packing houses, and harvesters and to promote the development of new industries compatible with environmental interests through applied research, training, and education. Another effort focuses on the needs of coastal recreation and tourism industries. In coordination with the Marine Education Center at Skidaway Island, distance learning experiences are provided through an electronic classroom. Additional facilities include lecture rooms, seafood technology laboratory, pilot processing plant, and a 73-foot shrimp boat for research on gear development and experimental fishing. The boat has been used extensively to locate offshore fishing grounds and to develop twin trawl technology for the shrimp industry and reduction devices for sea turtles and incidental fish. Ph.D. preferred. Extensive experience in administration of marine advisory required. Written and oral communications skills a must. Send curriculum vitae and names of at least three references to: **Chair, MAREX Search Committee, Director of Marine Extension Service, School of Marine Programs, 220 Marine Sciences Building, University of Georgia, Athens, GA 30602-3636**. Applications received by April 1, 1999, are assured full consideration. For general information about MAREX please see our website: www.marsci.uga.edu/ext/MAREX.html. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

ASSOCIATE DIRECTOR FOR MARINE EDUCATION MARINE EXTENSION SERVICE

The University of Georgia's Marine Extension Service seeks an Associate Director for Marine Education for its coastal Savannah Marine Education Center. The Associate Director answers to the Director of the Marine Extension Service (MAREX). MAREX is the public service and outreach component of the School of Marine Programs. This position will require the administration of a permanent staff of 13 and three part-time employees. Marine science programs are offered to K-12 groups, junior college and college students, educators, and Elderhostellers. The center is supported with a dormitory and dining facility, which allow groups to stay on campus from two days to two weeks. Facilities include a public aquarium, laboratories, marshes, docks, boats, and a nature trail, which allow a range in design of programs offered. An electronic classroom is installed that allows Georgia statewide distance learning network to access programming originating from the center. Ph.D. preferred. Extensive experience in administration of marine education required. Written and oral communications skills a must. Send curriculum vitae and names of at least three references to: **Chair, MAREX Search Committee, Director of Marine Extension Service, School of Marine Programs, 220 Marine Sciences Building, University of Georgia, Athens, GA 30602-3636**. Applications received by April 1, 1999, are assured full consideration. For general information about MAREX please see our website: www.marsci.uga.edu/ext/MAREX.html. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

TECHNICAL SALES REPRESENTATIVE INTEGRATED DNA TECHNOLOGIES, INC.

Responsibilities include direct outside sales, providing technical field support to customers, and providing Integrated DNA Technologies, Inc. (IDT) with new product ideas based on discussions with customers. Requirements include an M.A. in life sciences or B.A. with three years of laboratory experience, a working knowledge of molecular biology techniques using oligos, and sales experience. Competitive compensation package. Two positions are available in United States: Southeast (North Carolina, South Carolina, Georgia, Florida) and Texas Region (Texas, Oklahoma, Arkansas). Respond to: **Dr. Lorin Gassel, e-mail: lgassel@idtdna.com**.

POSITIONS OPEN



The USDA, Agricultural Research Service, Beltsville Agricultural Research Center, Plant Sciences Institute, Fruit Laboratory, in Beltsville, Maryland is seeking a **RESEARCH HORTICULTURIST/PLANT PHYSIOLOGIST/SOIL SCIENTIST/ECOLOGIST**, GS-437/435/470/408-12/13. Salary is commensurate with experience (GS-12: \$47,066 to \$61,190 per year, GS-13: \$55,969 to \$72,758 per year). Candidates must be U.S. citizens. The position conducts high-priority basic and applied research on the investigation of the impact of sustainable cultural systems on the small fruit production industry and on the environment. For information on the research program, contact: **Dr. Richard Zimmerman, Telephone: 301-504-6647**. Since the position has specific education and experience requirements and factors that must be addressed, applicants must request a copy of the vacancy announcement by **Telephone: 301-504-1484** or by printing it from our Internet site at website: <http://www.ars.usda.gov>. The vacancy announcement number for this position is ARS-D9E-9080. This announcement closes January 31, 1999. USDA/ARS is an Equal Opportunity Provider and Employer.

POSITIONS FOR LABORATORY CHIEFS A NEW CHINESE INSTITUTE OF NEUROSCIENCE

The formation of the Chinese Institute of Neuroscience in Shanghai represents a major drive for neuroscience research, jointly sponsored by the Chinese Academy of Sciences and Ministry of Science and Technology. It aims to instigate the infrastructure of a modern research institute with an environment that stimulates rigorous scientific pursuit and fruitful interaction, a support and management system that facilitates major discoveries, a merit-based review system for promotion and funding, and a high-quality education and training program for the next generation of neuroscientists.

The new Institute is due for inauguration in January, 2000. Applications are invited for positions as Laboratory Chiefs. Qualified scientists in all areas of neuroscience, including molecular and cellular neurobiology, developmental neurobiology, systems and behavioral neuroscience, as well as computational and cognitive neuroscience will be considered. Candidates must have a Ph.D. or equivalent training, with distinguished postdoctoral research accomplishments. Two levels of appointment are open: Senior Investigators and Investigators equivalent to tenured Associate and Full Professors, and tenure-track Assistant Professors in U.S. universities, respectively. The candidates are required to develop a rigorous research program and to supervise graduate students and Postdoctoral Fellows. Start-up funds and annual operating funds will be close to the levels in U.S. universities. Competitive salary and housing benefits will be provided. Please send curriculum vitae, representative publications, and names and e-mail addresses of three referees to: **Prof. Chien-ping Wu, Brain Research Institute, 320 Yue-yang Road, Shanghai, China. E-mail: cpwu@iris.shlc.ac.cn**. Applications received before March 1, 1999, will be considered for appointment beginning in January 2000.

DIRECTOR FAIRCHILD TROPICAL GARDEN

Fairchild Tropical Garden, the largest tropical botanical garden in the continental United States, located in Miami, is seeking a Director with international stature.

A Ph.D. in botanical/biological science is preferred, but not essential. The Search Committee will consider others with relevant academic degrees and experience in such fields as public administration, business, or finance with a nexus to botanical gardens.

Experience should evidence strong management, communications, and marketing skills. A successful candidate will understand the role of botanical gardens, will have a vision of the future, and be able to lead Fairchild Tropical Garden into the 21st century.

Interested candidates should send a résumé, three (3) professional references, and a cover letter (limited to three pages) to: **Robert Kramer, Chairman, Search Committee, c/o Kramer, Green, Zuckerman, Kahn & Greene, P.A., 4000 Hollywood Boulevard, Suite 485 South, Hollywood, FL 33021**.

POSITIONS OPEN

BASIC RESEARCH IN MELANOMA PENN STATE UNIVERSITY COLLEGE OF MEDICINE

The Penn State University College of Medicine and the Penn State Geisinger Cancer Center invite applications and nominations for a basic scientist working on fundamental aspects of melanoma. This tenure-track position will be filled at either the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. This position is funded by the Foreman Foundation, in memory of **John Bruno**, a Penn State football player who was a young victim of melanoma. The successful candidate for this high-visibility position will be focused in melanoma research, and will interact with other basic and clinical cancer researchers. The successful candidate will use molecular approaches to address issues related to the substantial basic and clinical research effort in melanoma at Penn State, providing opportunities for collaboration. Evidence of successful scholarship in melanoma research will be determined by publications and/or funding. Applicants must have a Ph.D., M.D., or M.D.-Ph.D. degree, and several years of postdoctoral training. Applicants should submit a curriculum vitae, selected reprints, names of three references, and a statement of research goals in melanoma to: **Dr. Mel Billingsley, Chairman, Melanoma Search Committee, Department of Pharmacology—H078, Penn State University College of Medicine, Hershey, PA 17033**.

Closing date for applications will be March 31, 1999.

Biology, ECOLOGIST. The Department of Biology at Whitman College invites applications for a one-year **SABBATICAL REPLACEMENT**, from mid-August 1999 through May 2000. In the fall, the candidate will teach half of the introductory course, "The Biological World" (surveying the diversity of life at the organismal level for all kingdoms except Animalia), one upper-level course in plant ecology, and a seminar in the candidate's area of expertise. In the spring, the candidate will offer an upper-level elective course for majors and a course for non-majors that complements the department's curriculum. We will give preference to candidates holding a Ph.D. Whitman College is a liberal arts college of 1,300 students, committed to excellence in undergraduate teaching and research. Please send curriculum vitae, three letters of recommendation, transcripts, and statements of teaching and research interests to: **Dr. Heidi E. M. Dobson, Chair of the Search Committee, Department of Biology, 345 Boyer Avenue, Whitman College, Walla Walla, WA 99362. Telephone: 509-527-5141; FAX: 509-527-5904; e-mail: dobsonhe@whitman.edu**. Closing date: February 15, 1999. Further information about Whitman College, website: <http://www.whitman.edu>. Candidates must be lawfully employable in this country as a result of citizenship, visa, or resident alien status. Equal Opportunity Employer.

The University of Florida seeks an **ASSISTANT SCIENTIST** at the University of Florida, Department of Medicine, Division of Nephrology. This is a non-tenure-track position at a full-time FTE. Ph.D. in physiology, physiological, exercise physiology, or other related field. Must have previous experience in conducting ingestive behavior and exercise studies, particularly in humans. This position requires that the successful candidate be responsible for all aspects of conducting research investigating ingestive behavior and fluid balance in humans, particularly in relation to exercise. This will include designing appropriate experiments, obtaining IRB approval, coordinating subjects and research papers for publications. Recruiting deadline date: January 28, 1999. Anticipated start date: February 12, 1999. Salary and benefits commensurate with experience. Please reply with curriculum vitae to: **Christopher McCarty, Ph.D., University of Florida, Box 100204, Gainesville, FL 32610**. An Equal Opportunity/Affirmative Action Employer.

HEALTH RESEARCH ANALYSTS

ECRI, a nonprofit health services research organization, seeks individuals with the ability to work within a team-oriented "think tank" group to assess the effectiveness and cost-effectiveness of medical devices, drugs, and procedures. Ph.D. in life or social sciences, ability to critically evaluate the medical literature, excellent writing skills, and ability to simultaneously work on several projects. Knowledge of statistics or computer modeling a plus. Qualified applicants must complete a 25-page test report. Résumés and cover letter to: **Department CT, ECRI, 5200 Butler Pike, Plymouth Meeting, PA 19462. FAX: 610-834-1275**. Equal Opportunity Employer/Affirmative Action.

SCIENTIFIC DIRECTOR NATIONAL HEART, LUNG, AND BLOOD INSTITUTE

THE POSITION: Director, Division of Intramural Research (Scientific Director). The Division of Intramural Research (DIR) conducts basic research in a number of areas related to the disciplines of biochemistry, cell biology, molecular biology, structural biology, and spectroscopy, among others. It also conducts clinical research programs in heart, lung and blood diseases. The Scientific Director serves as the principal advisor to the Director, NHLBI, concerning all ongoing and projected intramural research programs of the Institute and is fully responsible for broad decisions concerning program planning, budget and policy formulation and research allocation for intramural research. The Scientific Director represents the NHLBI in discussions of NIH-wide intramural policies and programs, and serves as a vital member of the senior staff of the Institute. In addition to the managerial/administrative responsibilities outlined above, the Scientific Director will carry out her/his own research program. Resources commensurate with the proposed program will be provided.

THE CHALLENGE: To provide strong and effective leadership in the overall scientific management of an innovative basic and clinical research program in the field of heart and vascular, lung, blood and sleep disorders with a research budget of \$120 million and 400 permanent staff. The NHLBI is currently pursuing cutting edge research on a broad spectrum of investigations, ranging from basic biological processes to mechanisms underlying heart, lung and blood diseases.

THE IDEAL CANDIDATE: Will have demonstrated scientific leadership and research experience in both basic and clinical research programs of national and international standing in an area relevant to heart, lung and/or blood diseases. Applicants must have an M.D. and/or Ph.D. degree.

SALARY: The Scientific Director will be appointed in the Senior Biomedical Research Service or under Title 42, at a salary commensurate with the candidate's background and experience.

HOW TO APPLY: An application accompanied by a current curriculum vitae and bibliography should be submitted to: Dr. Allen M. Spiegel, Chair, Search Committee, c/o The National Heart Lung, and Blood Institute, Attn: NHLBI Personnel Office, Building 31, Room 5A-28, 31 Center Drive, MSC 2484, Bethesda, MD 20892-2350. For further information, please call Ms. Kim Westervelt or Ms. Rosa Snell at (301) 496-6477.

NIH is an Equal Opportunity Employer

APPLICATIONS MUST BE POSTMARKED BY MARCH 31, 1999 AND RECEIVED BY CLOSE OF BUSINESS APRIL 7, 1999.

DIRECTOR NATIONAL INSTITUTE OF DIABETES AND DIGESTIVE AND KIDNEY DISEASES NATIONAL INSTITUTES OF HEALTH

The National Institutes of Health invites applications for the position of Director, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK). The Director provides national leadership and direction of a major national Federal research program whose primary responsibility is to conduct, foster, and support basic and clinical research into diabetes and metabolic disorders; digestive and nutritional disorders; diseases of the kidney and urinary tract; and blood abnormalities.

This is a position in Senior Executive Service with a salary ranging from ES-1 to ES-6 (currently \$106,412 to \$125,900, including locality pay). Physicians may be eligible for a Physicians Comparability Allowance of up to \$20,000 per year. A recruitment bonus of up to 25% of base pay may be available to a non-Federal applicant selected for this position, and a relocation bonus of up to 25% of base pay may be available to a permanent Federal employee who must relocate to accept this position.

Applicants must meet the minimum educational requirements, or equivalent combination of education and experience, for the Medical Officer, GS-602 series, or the Health Scientist Administrator, GS-601 series, and the following mandatory qualifications: (1) Senior level research experience and knowledge of research programs in one or more scientific areas related to diabetes, digestive diseases, or kidney diseases research such as endocrinology, metabolism, nutrition, blood disorders and urinary tract. Extensive knowledge of research methodology and an understanding of biomedical and behavioral sciences as they relate to diabetes, endocrinology, metabolic disorders, digestive diseases, nutritional disorders, or diseases of the kidney, blood disorders, and urinary tract. Should be known and respected within his/her profession, both nationally and internationally, as a person of outstanding scientific competence; and 2) Ability to provide leadership/management of a research program in the diseases or disorders described above of national and international scope and complexity involving dealings with outside groups and extensive planning, progress assessment, and analysis of program objectives; development of plans for the resolution of major operational problems and issues; and management of financial and human resources, including selecting, managing, and motivating staff using fair and equitable staffing/recruitment practices, and implementing EEO and affirmative action principles and objectives.

The vacancy announcement (#DK-99-0001) may be obtained by calling 301-496-1443. Applicants are required to submit a Curriculum Vitae or resume; bibliography; or any other written format which addresses the requirements indicated in this announcement; and a detailed statement addressing the mandatory qualifications, to the following address:

National Institutes of Health
Division of Senior Systems
Executive Plaza South, Suite 100
6120 Executive Boulevard
Rockville, Maryland 20852
Attention: Carmen Garcia

Applications must be postmarked no later than March 4, 1999

- Applicants with access to the Internet's World Wide Web may browse the NIH Home Page to view the announcement and may apply through the Web at URL: www1.od.nih.gov/ohrm/hrinfo/ses/vacancy/
- Applicants may E-Mail their application material via E-Mail to garciaac@od.nih.gov

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POSITIONS OPEN

MANAGER OF PEPTIDE CHEMISTRY AND BIOPROCESSING. Manager is responsible for knowledge in different departments of peptide chemistry and bioprocessing, including formulation development, process development, and peptide synthesis. In the area of formulation development the Manager is responsible for preclinical and clinical development of drug formulations of bioorganic molecules, principally, but not limited to, peptides and proteins; managing fill/finish operations and liaise with external contractors and suppliers to ensure efficient and timely supply of drug products for clinical investigations; and meeting department budget and cost control targets. In the area of process development, Manager is responsible for preclinical and clinical process development and scale-up in specific projects; and managing relations with external suppliers to ensure delivery of key intermediates of required quality in a timely manner. In the area of peptide synthesis, Manager is responsible for managing a laboratory-scale peptide synthesis team. This includes all responsibilities for supplying in-house research and development needs. Requires Ph.D. in chemistry and four years of industrial experience in the field of peptide chemistry including managerial and business experience. Requires knowledge in the different stages of peptide chemistry and bioprocessing, including process development and peptide synthesis; expertise in a wide range of biological, physical, and chemical analytical methods, documentation, quality control, as well as a good understanding of drug discovery and development processes from research through approval. Project management requires expertise in organic and bioorganic chemistry, peptide and protein technology, including synthesis, purification, analysis, and characterization, as well as development of GMPs and related documentation. Peptide synthesis requires expertise in chemical synthesis, purification and analysis of peptides, using both solution and solid phase methodology, encompassing extensive experience in Boc and Fmoc techniques on a variety of supports including polystyrene, polydimethylacrylamide, and polyethyleneglycol; also required is experience in peptide synthesis in a commercial/business environment. 8:00 a.m. to 5:00 p.m., 40 hours per week. \$94,990 per year. Submit two résumés to: **Todd & Weld, Attorneys at Law, Case# 80447, P.O. Box 8968, Boston, MA 02114.**

Two **POSTDOCTORAL POSITIONS** in integrative neuroscience are available; one to investigate the impact of the central monoaminergic (norepinephrine or serotonin) systems on sensory network function and the other to examine the acute and chronic effects of psychostimulant drugs of abuse on response properties of sensory cells and circuits. Both research projects employ state-of-the-art multichannel recording to study drug- or monoamine system-induced influences on sensory circuit operations in awake, behaving animals. Salary range \$25,000 to \$30,000. Prior experience in electrophysiology or behavioral pharmacology is desirable but not necessarily a requirement. Send curriculum vitae and names of three references to: **Dr. Barry Waterhouse, Ph.D., Department of Neurobiology and Anatomy, MCP-Hahnemann University of the Health Sciences, 3200 Henry Avenue, Philadelphia, PA 19129.**

DIRECTOR. Center for Salmon Disease Research. Oregon State University invites applications for the position of Director of the Center for Salmon Disease Research. The Center will provide leadership for research opportunities in fish disease research at the Salmon Disease Laboratory with a faculty of 10 Investigators. The position will be filled at a Professorial rank appropriate for the successful candidate. Please send a letter of application, curriculum vitae, with names of three references to: **Dr. Jo-Ann Leong, Chair, Department of Microbiology, Oregon State University, Corvallis, OR 97331-3804.** Screening will begin immediately and will continue until the position is filled. *OSU is an Affirmative Action/Equal Opportunity Employer and has a policy of being responsive to dual-career needs.*

NMR SPECTROSCOPIST

Will operate and maintain new 300 and 500 MHz spectrometers. Responsible for maintenance and operation, training users, performing analyses. This is not a faculty position. Candidates must possess a M.S. or Ph.D. with experience in NMR spectroscopy. Code: **NMR Human Resources, M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Box 205, Houston, TX 77030. FAX: 713-745-0064.** *Equal Employment Opportunity Employer/Smoke-free environment.*

POSITIONS OPEN

POSTDOCTORAL ASSOCIATE. National Center for Ecological Analysis and Synthesis (NCEAS)/University of California, Santa Barbara. To work with a collaborative group of Statisticians, Ecologists, and Philosophers of science developing new approaches, and procedures for assessing the evidence in data used to corroborate scientific claims. Responsibilities will include facilitating communication amongst project members, ensuring that information is circulated to all participants, actively working with the group to develop and implement novel statistical procedures, and applying the new methodologies to complex ecological problems. Applicants should possess a Ph.D. in ecology or related field with an interest and some background in statistics, computation, data analysis, and mathematics, or a Ph.D. in statistics with an interest in ecological and environmental problems. The applicant should have programming abilities in a programming language such as C or C++ and a working knowledge of statistical/mathematical programming such as S+ or Matlab. The position is funded for up to two years and all work will be conducted at NCEAS. Consideration of applications begins immediately, with an intent to identify a candidate by February 1, 1999. Details regarding the application procedure are available at website: **www.nceas.ucsb.edu.** *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS UNIVERSITY OF MINNESOTA DEPARTMENT OF NEUROLOGY

Postdoctoral positions are available immediately to study the biology of Alzheimer's disease in transgenic mice. Experience in molecular biology, rodent behavior, electrophysiology, cell biology, or biochemistry is desirable. Please send a curriculum vitae, names of six references, and a one-page overview of your research background, interests, and accomplishments to: **Dr. Karen Hsiao, Department of Neurology, Box 295 FUMC, 420 Delaware Street S.E., Minneapolis, MN 55455. E-mail: hsiao001@maroon.tc.umn.edu.**

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

POSTDOCTORAL POSITION in immunology. Positions are available for highly motivated Investigators to study various aspects of transplant immunology. The projects, which are funded by a Program Project Grant from the NIH, will study the cellular and molecular mechanisms of allograft rejection and tolerance induction. Applicants should have a recent Ph.D. degree and experience in immunology, cell biology, and/or molecular biology. Send curriculum vitae and cover letter, including the names of three references, to: **Dr. Christian P. Larsen or Dr. Thomas C. Pearson, Transplant Immunology, Room 5015 WMRB, 1639 Pierce Drive, Atlanta, GA 30322.** Salary is commensurate with experience. *Emory University is an Affirmative Action/Equal Opportunity Employer.*

Four **POSTDOCTORAL ASSOCIATE** positions. Institute of Marine and Coastal Sciences—Rutgers, The State University of New Jersey. One-year appointments, renewable, in the areas of biological, geochemical, and physical oceanography. Send résumé, a statement of research interest, and the names of three references to: **Dr. J. Frederick Grassle, Rutgers, The State University of New Jersey, Institute of Marine and Coastal Sciences, 71 Dudley Road, New Brunswick, NJ 08901-8521.** *Rutgers is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available immediately to study DNA mismatch repair processes in cancer, meiosis, and mutagenesis. Competence in molecular biological techniques, yeast work, microscopy, and cell culture are desirable, but not necessary. Please send your curriculum vitae to: **Sean M. Baker, DNST, University of California Berkeley, Berkeley, CA 94720-3104. Telephone: 510-642-7870; FAX: 510-642-0535; e-mail: sbaker@nature.berkeley.edu.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL FELLOWSHIPS to study cell death/adaptation in hypoxia/tumor hypoxia. Ph.D. and background in molecular/protein techniques required. *One of two positions needs U.S. citizenship/immigrant status.* Send résumé and three references to: **M. A. Venkatachalam, Department of Pathology, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7750.**

POSITIONS OPEN

POSTDOCTORAL POSITION to study the molecular fundamentals of posttranscriptional regulation in microbial systems: the basis of translational enhancers, mechanisms of translational coupling, translational control through RNA structure, and the regulation of in-frame overlapping genes. Experience in molecular genetics and the biochemistry of nucleic acids, Ph.D., and less than five years of postdoctoral experience preferred. Send curriculum vitae, brief research summary, names and addresses of three references to: **Dr. Deborah A. Steege, Department of Biochemistry, Box 3711, Duke University Medical Center, Durham, NC 27710. E-mail: steege@biochem.duke.edu.** *Duke University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL FELLOWSHIPS available. Applicants are sought for positions in the Endocrine Division of Physiology at Dartmouth Medical School (DMS). One successful candidate will join an exciting research project related to autocrine regulation of lung and breast cancers by neuropeptides, or to the roles of vasopressin in cystic fibrosis/Alzheimer's disease. Two others will work with projects related to regulation of gene expression by thyroid hormone or aldosterone. *Applicants must be U.S. citizens or permanent residents with a Ph.D. or M.D.* Experience with techniques in molecular biology, sterile cell culture, or protein purification, is desirable. Those interested should send curriculum vitae and names of three referees to: **Dr. William G. North, Professor of Physiology, Dartmouth Medical School, 1 Medical Center Drive, Lebanon, NH 03756. Telephone: 603-650-7736. E-mail particulars and/or questions to e-mail: william.g.north@dartmouth.edu.** Some information about physiology at DMS can be obtained through our website: **http://www.dartmouth.edu/dms/physiol/.**

POSTDOCTORAL INVESTIGATOR ASSISTANT RESEARCH SCIENTIST

The University of Maryland Center for Environmental Science, Horn Point Laboratory (HPL) invites applications for a Postdoctoral Investigator. This is a two-year appointment available 1 July 1999. The successful candidate must hold a Ph.D. or equivalent, and is expected to conduct research in collaboration with a member(s) of the HPL faculty. General areas of research include coastal physical oceanography, estuarine ecology, plankton dynamics, benthic ecology, geochemistry, algal physiology, coastal plant ecology, and aquaculture (list of faculty is on the website: **http://www.hpl.umces.edu.**) By 1 April 1999, send a two- to three-page letter outlining a proposed research program, the name(s) of faculty the candidate would like to work with, a résumé, and a list of four references to: **PostDoc Search, Horn Point Laboratory, P.O. Box 775, Cambridge, MD 21613-0775.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL RESEARCH POSITIONS (two) in developmental and molecular neuroscience. The laboratory studies the molecular mechanisms underlying glial/neuronal interactions in development and regeneration. Send curriculum vitae with names, addresses, and telephone numbers of three references to: **Dr. David E. Weinstein, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. Website: http://www.ca.aacom.yu.edu/ssgd/pages/faculty/weinstei.htm.** Candidates must have solid molecular biology experience and be legally authorized to work in the United States. *Equal Opportunity Employer.*

POSTDOCTORAL ASSOCIATE position to carry out novel experiments on immunotherapy of malignant melanoma in transgenic mouse models. Excellent in-house facilities and services are available for FACS, DNA synthesis and sequencing, peptide purification, electron and confocal microscopy, cell culture, histopathology and immunohistochemistry, etc. Previous training chiefly in cellular immunology is required. Please send curriculum vitae and names of three references to: **Dr. Beatrice Mintz, Institute for Cancer Research, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. FAX: 215-728-3574.** *Equal Opportunity Employer.*

Graduate/Predoctoral Fellowship In Molecular Therapeutics

This is a unique program within the Graduate Program of Molecular Genetics and Microbiology of the Graduate School of Biomedical Sciences of UMDNJ (Piscataway Division at Robert Wood Johnson Medical School, Piscataway, NJ) to train students in an interdisciplinary industry/university environment. This program is a collaboration of one of New Jersey's premier academic institutions and Novartis, one of the largest life sciences companies in the world. The program will provide predoctoral students an integrated research training experience at UMDNJ and at the Novartis Institute for Biomedical Research.

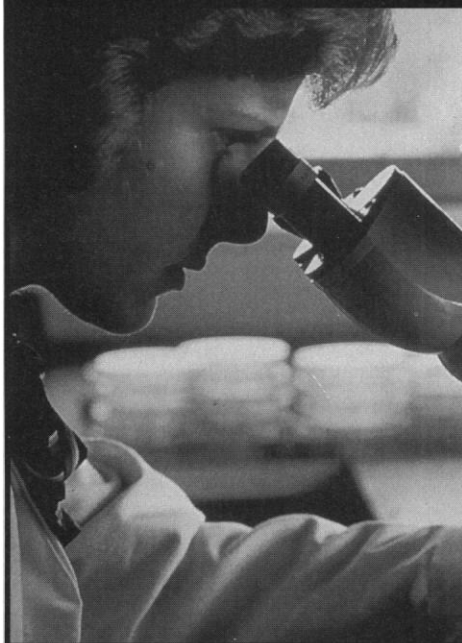
The program encompasses cutting-edge research in areas including cell cycle regulation, transcriptional control, signal transduction, cell-cell interactions, structural biology, functional genomics and NMR spectroscopy with applications to transplantation, oncology, cardiovascular disease, arthritis, lipid metabolism, gene and stem cell therapy. It is ideal for highly motivated and innovative students who have obtained a Bachelor's degree with a strong academic record, and who plan for an academic or industrial career.

Please send inquiries to: **Dr. Sidney Pestka, Department of Molecular Genetics and Microbiology, UMDNJ-Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5665.** Final applications are due by **March 15, 1999.** Applications and information about the graduate program can be found at <http://www2.umdj.edu/mgm/grad.html>.



ANNOUNCEMENT

THE NATIONAL CANCER INSTITUTE SCHOLARS PROGRAM



A CAREER DEVELOPMENT PROGRAM PROVIDING
OUTSTANDING NEW INVESTIGATORS
AN OPPORTUNITY TO ESTABLISH A FIRST
INDEPENDENT RESEARCH PROGRAM

- Scholars receive up to 4 years of support at the NCI, followed by up to 2 years of support in an extramural institution.
- Scientists with 0-5 years of post-doctoral training in the areas of basic, clinical, or population-based biomedical research are invited to apply.
- Applications are due March 22, 1999.

For more details, contact:

Lester S. Gorelic, Ph.D., Cancer Training Branch, National Cancer Institute
301-496-8580 ■ 301-402-4472 (Fax) ■ Ig2h@nih.gov
<http://www.nci.nih.gov> and click on "What's New."

POSITIONS OPEN

POSTDOCTORAL POSITIONS MOLECULAR GENETICS, BIOCHEMISTRY, MICROBIOLOGY University of Cincinnati College of Medicine

Positions are available with the following faculty: **John Monaco**. Immunogenetics, antigen-processing proteasome biochemistry. **Joanna Groden**. Identification and characterization of genes and proteins that predispose to cancer. **Jim Stringer**. Genetic instability during mammalian cell differentiation and cancer development. **Tony Capobianco**. Molecular mechanisms of Notch signaling in neoplasia. **David Robbins**. Hedgehog signal transduction pathway in development and cancer. **Shelly Barton**. Gene regulatory mechanisms, chromatin, and synthetic nuclei. **David Wiczorek**. Alternate mRNA splicing and regulation of muscle gene expression. **Mark Rance**. NMR studies, structure and dynamics of proteins and RNA, solution-state NMR spectroscopy. **Paul Rosevear**. Structure-function, calcium regulation of cardiac muscle contraction; RNA-protein interactions. **Jerry Lingrel**. NA,K-ATPase gene regulation, structure-function studies, transcription factors, development. **Gary Shull**. Ion-transport proteins in cardiac function and control of arterial blood pressure, gene targeting. **Dan Hasset**. Reactive oxygen intermediates, iron limitation, and mucoidy in *Pseudomonas aeruginosa*.

Select one or more faculty to receive your curriculum vitae and send to:

Jim Stringer
Department of Molecular Genetics, Biochemistry,
and Microbiology
University of Cincinnati College of Medicine
231 Bethesda Avenue
Cincinnati, OH 45267-0524
E-mail: stringjr@ucmail.uc.edu
Website: <http://www.molgen.uc.edu>

POSTDOCTORAL ASSOCIATE position. The Department of Veterinary Pathobiology, University of Minnesota. Duties include research on host-virus relationships in chicken embryos following *in ovo* vaccination. Specifically to examine the distribution and spread of infectious and noninfectious agents in the embryonic tissues; quantitate specific immune responses; and identify conditions that may lead to immunological tolerance and study the mechanism of tolerance. Candidates must have completed a Ph.D. degree by start date. Candidates with a D.V.M. and Ph.D., one to three years of research experience, and a background in virology, immunology, and molecular biology will be given preference. Applications reviewed continuously until position is filled or until February 28, 1999. Send application letter, a curriculum vitae, and names, addresses, and telephone numbers of three references to: **Dr. Jagdev M. Sharma**, Department of Veterinary Pathobiology, College of Veterinary Medicine, University of Minnesota, 1971 Commonwealth Avenue, St. Paul, MN 55108. The University of Minnesota is an Equal Opportunity Educator and Employer.

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO

POSTDOCTORAL POSITION available for studies regarding the role of mechanical stress and prostaglandin on gene expression and cell cycle regulation in bone. Project will focus on the mechanisms underlying the induction of bone growth by exercise. Applicant should have experience with promoter constructs, rtPCR, Western blots, and cell culture. Strong written and verbal skills are essential. Competitive salaries. Send curriculum vitae and names of three references to: **M. Hughes-Fulford**, University of California, San Francisco/VA Medical Center, Code 151F, 4150 Clement Street, San Francisco, CA 94121. FAX: 415-476-1267.

POSTDOCTORAL POSITION FOX CHASE CANCER CENTER

Postdoctoral position available immediately to study the function of the tuberous sclerosis (TSC) tumor suppressor genes and their protein products, with an emphasis on the potential role of these proteins in vesicular trafficking. Background in molecular and cellular biology is required. Please send curriculum vitae and the names of three references to: **Dr. E. P. Henske**, c/o Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. E-mail: ep_henske@fccc.edu. For more information, visit our website: www.fccc.edu. Equal Opportunity Employer.

POSITIONS OPEN

SYLVESTER

Comprehensive Cancer Center
UNIVERSITY OF MIAMI HOSPITAL AND CLINICS

POSTDOCTORAL ASSOCIATE FIVE POSITIONS

Ph.D. in biology, biological sciences, life sciences, or other related field. Three years of work-related experience with transgenic and knockout animal models, the yeast two hybrid system, and/or virology is required. Individual will conduct research in a NIH-funded laboratory, which involves cloning, transfection, and function analyses of genes that regulate the cell cycle and apoptosis of human cancer cells. Excellent English skills (both written and verbal) required. Send résumés to: **Desiree Uptgrow**, Sylvester Comprehensive Cancer Center, P.O. Box 019132 (M877), Miami, FL 33101. E-mail: duptgrow@med.miami.edu. Equal Opportunity Employer/Affirmative Action.

POSTDOCTORAL POSITION Use of *In Vitro* and *In Vivo* Models to Elucidate the Pathogenesis of Parkinson's Disease

Postdoctoral position available immediately to investigate the pathogenesis of Parkinson's disease. Transient and stable transfection studies exploring the role of mutated genes in mediating neurotoxicity are being explored. Conventional transgenic and somatic mosaic transgenic mice are being used to understand the role of mutated genes and the dopamine transporter in mediating neurotoxicity. Applicants must have a Ph.D. and experience in molecular neurobiology and tissue culture. Send a curriculum vitae and arrange to have three letters of recommendation forwarded to: **Howard J. Federoff**, M.D., Ph.D., and **Eric K. Richfield**, M.D., Ph.D., Center for Aging and Developmental Biology, University of Rochester Medical Center, 601 Elmwood Avenue, Box 645, Rochester, NY 14642.

POSTDOCTORAL POSITION(S) are available immediately for investigations of RNA assembly and catalysis *in vivo* and/or *in vitro*. Additional information regarding our research program is available at website: <http://www.scripps.edu/mb/fedor/>. Candidates with molecular biology and nucleic acid biochemistry research experience are preferred. Please send curriculum vitae, statement of research interests, and names of three references to: **Martha J. Fedor**, Ph.D., Associate Professor, Department of Molecular Biology and The Skaggs Institute for Chemical Biology, The Scripps Research Institute, MB35, 10550 North Torrey Pines Road, La Jolla, CA 92037. Telephone: 619-784-2770; FAX: 619-784-2779; e-mail: mfedor@scripps.edu.

POSTDOCTORAL POSITION UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE

Nuclear hormone receptors in gene expression, cell differentiation, and metabolism (see: *Nature* 396:377, 1998; *MCB* 18:1785, 1998; *Genes Dev.* 12:1775, 1998; *Genes Dev.* 11:835, 1997). Send curriculum vitae and three references to: **Dr. Mitch Lazar**, University of Pennsylvania, 611 CRB, 415 Curie Boulevard, Philadelphia, PA 19104-6149. E-mail: lazar@mail.med.upenn.edu. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION is available immediately to study gene expression at the single-cell level in autoimmune neurological disorders. A Ph.D. degree with a strong background and laboratory skills in molecular biology and cell biology, and a knowledge of immune cell genes and interactions are essential. Please send curriculum vitae and names of three references to: **Dr. Norman Latov**, Department of Neurology, Columbia University, 630 West 168th Street, Room 3-309 BB, New York, NY 10032. E-mail: nl2@columbia.edu; FAX: 212-305-3986. Columbia University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available to study the cell-mediated immune response to *Mycobacterium tuberculosis* in small animal models. A strong background in cellular and/or molecular immunology, including flow cytometry, is desirable. Applicants should send curriculum vitae and the names of three references to: **Mrs. Jenny Harding**, Mycobacteria Research Laboratories, Department of Microbiology, Colorado State University, Fort Collins, CO 80523.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP CD40L-MACROPHAGE INTERACTIONS University of California, San Diego

A Postdoctoral position is available for studies on CD40L-macrophage interactions in the Division of Infectious Diseases of the University of California, San Diego (UCSD) Department of Medicine and the UCSD AIDS Research Institute (directed by **Dr. Douglas Richman**). Building on our recent finding that CD40L activates macrophages to produce HIV-suppressive beta-chemokines (*PNAS* 95:5205-5210, 1998), we are evaluating the regulation of CD40L on T cells in HIV infection, tuberculosis, and malignancy. These studies utilize a variety of molecular, immunological, biochemical, and microbiological approaches in a modern, well-equipped laboratory in the center of the United States' third-largest biotechnology area. The successful candidate will have a broad knowledge of current biomedical research, a strong foundation in immunology and molecular biology, dedication, a positive attitude, and a desire to learn in a challenging but supportive environment. Candidates must have a Ph.D., M.D., or equivalent, and be U.S. citizens or permanent residents. Apply by sending a statement of research experience, interests, and future plans; curriculum vitae; and the names, addresses, and telephone numbers of three references to: **Richard S. Kornbluth**, M.D., Ph.D., Department of Medicine—0679, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0679. FAX: 619-552-7445; e-mail: rkornbluth@ucsd.edu.

POSTDOCTORAL POSITION Conditional Gene Function and Application of Herpes Simplex Viral Vectors

An NIH-funded position is available February 1, 1999, to construct and evaluate improved HSV-1 viral vectors capable of directing specific, long-term expression of neurotropic factors in animal models of neurodegenerative disease. Additional projects include the derivation of genetically engineered mice that harbor pharmacologically regulated transgenes. Applicants must have a Ph.D. and experience in molecular neurobiology, cell biology, or virology. Send a curriculum vitae and arrange to have three letters of recommendation forwarded to: **Howard J. Federoff**, M.D., Ph.D., and **William J. Bowers**, Ph.D., Center for Aging and Developmental Biology, University of Rochester Medical Center, 601 Elmwood Avenue, Box 645, Rochester, NY 14642.

INVASION AND ANGIOGENESIS

A funded **POSTDOCTORAL POSITION** is available to study the mechanism(s) involved in brain tumor invasion and angiogenesis, with a focus on cell-cell and cell-matrix interactions (see: **Rempel et al**, *J. Neuropathol. Exp. Neurol.* Dec. 1998). Studies include transfection, immunohistochemical, Western, migration, and molecular signaling analyses. Requires a Ph.D. and experience in molecular and cell biological techniques. Please send curriculum vitae to: **Sandra A. Rempel**, Ph.D., Department of Neurosurgery, ER-3096, Henry Ford Hospital, 2799 West Grand Boulevard, Detroit, MI 48202. E-mail: nssan@neuro.hfh.edu.

POSTDOCTORAL FELLOW/ RESEARCH FELLOW

Available January 1999 for recent graduates with a Ph.D. in molecular biology or cell biology interested in malignant transformation and cellular differentiation. Send curriculum vitae and names of three references to: **Mark A. Israel**, PIBS Graduate Program in Developmental Biology and Department of Neurological Surgery, University of California, San Francisco (UCSF), 513 Parnassus Avenue, San Francisco, CA 94143-0520. E-mail: israel@cgl.ucsf.edu. UCSF is an Equal Opportunity/Affirmative Action Employer.

A **POSTDOCTORAL POSITION** is available immediately for NIH-funded projects to study neural control of cardiovascular system and myocardial ischemia using *in vivo* and *in vitro* electrophysiology techniques. Ph.D. degree and previous experience with methods in extracellular recording, whole cell patch-clamp or tissue slice recordings are desirable. Send curriculum vitae and names of two references to: **Dr. H. L. Pan**, Department of Anesthesiology, Wake Forest University School of Medicine, Winston-Salem, NC 27157. E-mail: hpan@wfubmc.edu; FAX: 336-716-8190. Affirmative Action/Equal Employment Opportunity Employer.

**FACULTY POSITION IN PROTEOMICS
UNIVERSITY OF CALIFORNIA,
LOS ANGELES**

The School of Medicine and the College of Letters and Science at UCLA seek a candidate who will develop a vigorous and innovative research program in the general area of proteomics, protein chemistry and gene discovery, and who will oversee the establishment of a state-of-the-art mass spectrometry and protein sequencing facility. The appointment will be at the level of (Tenured) Associate or full Professor. Exceptional (tenure track) Assistant Professor candidates will also be considered. The appointment will be associated with the Departments of Biological Chemistry (School of Medicine) and Chemistry & Biochemistry (Letters and Science), as well as the UCLA-DOE Laboratory of Structural Biology and Molecular Medicine.

Applications should include a curriculum vitae, a statement of research accomplishments, and future research plans. Please provide the names of three referees. Consideration of applications will begin March 15, 1999 and continue until the search is completed.

Please send materials to **Proteomics Search Committee, Department of Biological Chemistry, UCLA School of Medicine, Box 951737, Los Angeles, CA 90095.**

UCLA is an equal opportunity employer.

CHAIR POSITION

Department of Preventive Medicine

The USC School of Medicine invites applications and nominations for the position of Professor and Chair of the Department of Preventive Medicine. We are seeking a dynamic leader with a distinguished record of research productivity and extramural support, proven administrative abilities, and commitment to graduate education in epidemiology, biostatistics and related fields. The Chair will lead a highly successful department of about 50 full-time faculty members in four Divisions: Epidemiology, Biostatistics, Environmental Health, and Prevention Research. The successful candidate will have a strong commitment to strengthening and expanding existing areas of research in cancer and chronic disease epidemiology, environmental health, environmental/genetic interactions, clinical trials, and disease prevention. The department has significant interaction with basic science and clinical departments in the School of Medicine, as well as the NCI Sponsored Comprehensive Cancer Center, and the Institute for Genetic Medicine. This position includes a competitive salary and fringe benefits package and opportunities for further growth. Nominations should include a curriculum vitae and the names of at least 3 referees and should be sent to **Richard N. Bergman, Ph.D., Chair, Search Committee for Chair of Preventive Medicine, MMR 626, USC School of Medicine, 1333 San Pablo Street, Los Angeles, CA 90033.** *The University of Southern California is an Equal Opportunity Employer.*

CALL FOR LETTERS OF INTEREST

CALL FOR LETTERS OF INTEREST

**Malaria Drug Discovery Research Proposals
New Medicines for Malaria Venture (MMV)**

The New Medicines for Malaria Venture (MMV) has recently been established as a collaborative effort between several public sector organisations, the Global Forum for Health Research, several philanthropic organisations, and the Pharmaceutical Industry to provide a mechanism for the sustainable discovery and development of affordable antimalarial chemotherapies into the 21st century. The venture will operate under the umbrella of the Roll Back Malaria Programme recently initiated by the new Director-General of the World Health Organisation, Dr. Gro Harlem Brundtland. MMV is currently managed by the Special Programme for Research and Training in Tropical Diseases (TDR) at WHO.

MMV is initially focussing its efforts on drug discovery. MMV will provide significant resources for drug discovery projects that are judged to have a realistic chance of obtaining a clinical development candidate (up to several million US dollars per year over a 3 to 5 year period). Logistic support and impartial expert advice will also be made available to MMV supported drug discovery teams in order to facilitate the progression of projects as rapidly as possible.

It is envisaged that the majority of projects funded will be based on a partnership between an academic centre and a pharmaceutical company. However, this should not be viewed as restrictive. Good projects will also be welcome from stand-alone academic groups or from biotechnology and other pharmaceutical companies. Where it is thought that a project would benefit from the establishment of a partnership, individual groups can request assistance for this. MMV will make efforts and offer its services to facilitate their establishment and so optimise any project application.

This advertisement is initiating the process for the selection and funding of the inaugural MMV drug discovery projects.

1. A 2-page letter of interest outlining the nature of the drug discovery project envisaged should be submitted by Friday, 26 February 1999. This letter should include the following information
 - Scientific basis for the project
 - Project status
 - Stage of project (e.g. target identification, target validation; chemical leads, activities in culture and animal models, any pre-clinical studies, patent status)
 - critical issues (e.g. selectivity, pharmacokinetics, toxicology)
 - The project leader(s) who will drive the project, their background expertise and the time they are prepared to allocate to the project.
 - Institutional backing available for the project and commitment of resources, including space to house the projects; supplementary sources of funding; the nature of any partnerships.
 - Resource requirements (personnel, start-up and operating costs).
 - Areas where MMV assistance is needed to develop a complete drug discovery package (e.g. links to chemical libraries, high throughput screening and other methodologies, links to expertise in certain areas e.g. downstream preclinical development issues)
2. These letters of interest will be assessed by a panel of experts in drug discovery, including pharmaceutical industry representatives, and up to six projects will be selected for submission of a more detailed proposal. Assistance and advice will be given where necessary during this phase to optimise the quality of proposals and to ensure that all administrative issues are satisfactorily settled so that selected projects can be initiated rapidly.
3. The project teams preparing these detailed proposals will be required to present their proposals orally as well as in written form, to a selection panel in second quarter 1999 in Geneva.
4. It is hoped to fund an initial set of projects in third quarter 1999. Unsuccessful applicants will be kept updated about funding developments and maybe invited to resubmit as further funding becomes available.

For further information please contact:
New Medicines for Malaria Venture,
Tropical Disease Research (TDR/ L253),
World Health Organisation
CH-1211 Geneva 27, Switzerland
Fax: +41 22 791 4854
E-mail: mmv@who.int



POSITIONS OPEN

The Cardiovascular Research Center at the University of Michigan invites applications for **POSTDOCTORAL FELLOWS** to train in basic and clinical cardiovascular science. Candidates must have a Ph.D. or a M.D. degree and be a permanent resident or U.S. citizen. Postdoctoral Fellows will have the opportunity to learn a broad range of experimental strategies including molecular, genetic, cellular, and integrative biological approaches. Areas of research include vascular biology, hypertension, gene therapy, cardiogenesis, heart failure, atherosclerosis, stroke, and diabetes.

Applicants should send a curriculum vitae, a statement of research interests, career goals, and three letters of reference to:

Elizabeth Nabel, M.D.
Clinton Webb, Ph.D.

The Cardiovascular Research Center
The University of Michigan Medical School
7301 MSRB III
1150 West Medical Center Drive
Ann Arbor, MI 48109-0644

Application deadline: March 1, 1999.

Beginning date of Fellowship: September 1, 1999.

The University of Michigan is an Affirmative Action and Equal Opportunity Employer and Employer. Minority and women candidates are strongly encouraged to apply.

POSTDOCTORAL POSITIONS GEORGETOWN UNIVERSITY MEDICAL CENTER

Two Postdoctoral positions are available immediately to study the biochemical and molecular aspects of *Ataxia-telangiectasia* and prostate cancer. The projects include biochemical analysis, isolation of novel genes, and clinical translation studies for gene therapy. Recent Ph.D. training in molecular or cellular biochemistry. Prefer experience in these areas and less than five years of postgraduate. Send curriculum vitae and names of three references to: **Anatoly Dritschilo, M.D., Professor and Chairman, Department of Radiation Medicine, Division of Radiation Research, Georgetown University Medical Center, 3790 Reservoir Road N.W., Washington, DC 20007-2197. FAX: 202-687-0400.**

Georgetown University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

A Postdoctoral position at the Harvard Medical School is open immediately to conduct research in the area of signal transduction. The appropriate candidate would be involved in the functional characterization of novel kinases and phosphatases in hematopoietic and endothelial cells. Experience in molecular and cellular biology is essential for this project. Please send curriculum vitae and three references to:

Jerome E. Groopman, M.D.
Chief, Division of Experimental Medicine
Beth Israel Deaconess Medical Center
Harvard Institutes of Medicine
4 Blackfan Circle, Suite 351
Boston, MA 02115
FAX: 617-975-5244

POSTDOCTORAL POSITION available to study programmed DNA rearrangement in ciliated protozoa. The project involves the identification of intermediates in the DNA splicing or chromosome fragmentation/telomere addition processes of macronuclear development, and ultimately the development of *in vitro* systems. Background in molecular biology and/or biochemistry required. Send a curriculum vitae and the names of three references to: **Dr. Lawrence Klobutcher, Department of Biochemistry, University of Connecticut Health Center, Farmington, CT 06032. E-mail: butcher@panda.uhc.edu. The University of Connecticut is an Equal Opportunity/Affirmative Action Employer.**

Immediate POSTDOCTORAL POSITION at UCLA, supporting peer-review-funded research. Ph.D. in molecular biology, microbiology, or biochemistry and postdoctoral experience in a similar field. Determine function of tumor suppressor gene, *MENIN*, in endocrine tumors. Study basic biological function at the molecular level as a basis for understanding the gene's role in islet cell growth and development, with the long-term goal of understanding islet growth in tumors and applications to the treatment of diabetes. Please submit curriculum vitae and three references to: **Mark Sawicki, M.D., Associate Professor, Box 956904, Los Angeles, CA 90095-6904. FAX: 310-825-0189.**

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP IN CELLULAR IMMUNOLOGY NATIONAL CANCER INSTITUTE

An immediate opening exists for a full-time Postdoctoral Training Fellowship in the Thoracic Oncology Section, Surgery Branch, National Cancer Institute to study human immune response to lung cancer. The project aims to study tumor proteins recognized by immune cells, and requires a strong background in protein purification, molecular biology, and cellular immunology.

Send cover letter, résumé, and statement of research interests to:

David S. Schrupp, M.D.
Head, Thoracic Oncology Section
Surgery Branch
National Cancer Institute
National Institutes of Health
Building 10, Room 2B07
Bethesda, MD 20892-1502
E-mail: schruppd@pop.nci.nih.gov

Selection for this position will be based solely on merit, with no discrimination for nonmerit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or nonmembership in an employee organization.

POSTDOCTORAL POSITION available immediately to study the role of regulator of G-protein signaling (RGS) proteins in heterotrimeric G-protein-mediated signal transduction processes (*Nature* 379:742, 383:172, 1996). Studies include structure-function relationships determining biochemical interaction of RGSs with G-proteins and the role of RGSs in inflammatory and immune processes through development of transgenic animals. Experience in cellular and molecular biology is required and familiarity with G-protein biochemistry is desirable. Please send curriculum vitae and the names, addresses, and telephone numbers of three references to:

Dr. Kirk Druey
Laboratory of Allergic Diseases
NIAID/NIH/Twinbrook II, Room 203
12441 Parklawn Drive
Rockville, MD 20852 USA
E-mail: kdruey@atlas.niaid.nih.gov

NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available to study the role of folate-binding proteins in embryonic development. The research employs transgenic, inbred, and mutant mouse models. Additional efforts to detect neural tube defect susceptibility genes using whole genome approaches will also be pursued. Participation in complementary projects in human populations is possible.

Interested applicants should send curriculum vitae, a short summary of research plan, and the names of three references to: **Dr. Richard H. Finnell, Director, Center for Human Molecular Genetics, Munroe-Meyer Institute, 985450 Nebraska Medical Center, Omaha, NE 68198-5450. E-mail: rfinnell@unmc.edu; FAX: 402-559-5737. The University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disability are encouraged to apply.**

A POSTDOCTORAL POSITION is available to study several proteins of pathogens that cause malaria, hepatitis, and other diseases and/or several proteins of the immune system using biochemical and biophysical methods. This is an opportunity for someone with experience in biochemistry and/or molecular biology to crystallize a protein and to learn X-ray crystallography. Salary from \$27,500 to 38,000. Please send a curriculum vitae and the names of three references to: **David N. Garboczi, Ph.D., National Institute of Allergy and Infectious Diseases, NIH, 12441 Parklawn Drive, Room 110, Rockville, MD 20852. Telephone: 301-496-4773; FAX: 301-402-0284; e-mail: garboczi@coral.niaid.nih.gov. NIH is an Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS

Postdoctoral positions available to chart and analyze mammalian protein regulatory networks in the context of functional genomics (see: *PNAS* 94:12473-8, 1997). Candidates should be highly motivated with a strong background in molecular and cell biology. \$34,000 to \$40,000 plus benefits per year with institute housing. Send research interests, curriculum vitae, and three references to: **C. Wilson Xu, Ph.D., Box 362, Sloan-Kettering Institute and Cornell University Medical School, 1275 York Avenue, New York, NY 10021. FAX: 212-639-2767; e-mail: w-xu@ski.mskcc.org.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS IN CARDIOVASCULAR RESEARCH

Several Postdoctoral positions are available in the following areas: physiological function and intracellular signaling pathways of the angiotensin II receptors during vascular development and following vascular injury, identification and cloning of novel transcription factors, development and application of gene transfer and gene therapy for the cardiovascular system, and development of proteomic and genomic strategies for studies in the cardiovascular system. Applicants should have an M.D. and/or Ph.D. with experience in cell biology and must be familiar with standard biochemical and molecular biological techniques and have strong written and verbal skills. Successful applicants will join an interactive research environment consisting of five Principal Investigators and 15 Postdoctoral Fellows with collaborations throughout the Harvard Medical School. Opportunity for advancement exists following the Fellowship period.

Interested applicants should send their curriculum vitae and arrange for three letters of recommendations to be sent to: **Victor J. Dzau, M.D., Department of Medicine, Brigham and Women's Hospital, Harvard Medical School, 75 Francis Street, Boston, MA 02115. E-mail: vdzau@bics.bwh.harvard.edu or (if sending attachments) rpratt@bustoff.bwh.harvard.edu.**

POSTDOCTORAL POSITIONS. Two Postdoctoral positions are available immediately for NIH-funded research on the mechanisms of adenomatous polyposis coli (APC) gene regulation in colon cancer cells (*JBC* 272: 30619-30622, 1997). A Ph.D. degree with expertise in molecular cell biology techniques including *in vitro* and *in vivo* transcriptional regulation of genes is preferred (*JBC* 269:12755-12763, 1994; *Biochemistry* 35:1775-1782, 1996; *JBC* 271:18508-18513, 1996). Applicants should send curriculum vitae, summary of research interests, and names of three references to: **Dr. Satya Narayan, Sealy Center for Oncology and Hematology, 9.104 Medical Research Building, University of Texas Medical Branch, Galveston, TX 77555-1048. FAX: 409-747-1938; e-mail: snarayan@utmb.edu. Equal Opportunity/Affirmative Action Employer/Minority/Females/Disabled/Veterans. UTMB hires only employees authorized to work in the United States.**

POSTDOCTORAL POSITION IN CANCER BIOLOGY

We have an immediate opening for a recent Ph.D. graduate (zero to two years of postgraduate experience) in the area of cancer biology. The selected applicant will utilize cDNA microarrays and his/her knowledge of signal transduction to study pathways involved in the progression of colon cancer. Experience in molecular biology and cell biology are required; experience in animal models of cancer and histological techniques is desirable. Successful applicants are required to present at scientific meetings and publish their findings in peer-reviewed journals. Please send curriculum vitae and references to: **Dr. Jeffrey A. Brockman, Research Genetics, 2130 Memorial Parkway S.W., Huntsville, AL 35801. FAX: 256-551-1021; e-mail: brockman@resgen.com.**

DNA REPAIR BIOCHEMISTRY/ MOLECULAR BIOLOGY

POSTDOCTORAL PROJECT. Novel issues in the repair of oxidative DNA damage in human cells pertaining to the structural cell biology of XPG complexes, hereditary disease, and cancer. Superb facilities and environment. Dynamic interactions with multidisciplinary faculties at Lawrence Berkeley National Laboratory and The Scripps Research Institute. Experience with molecular biology and protein expression-purification preferred; see website: www.scripps.edu/~jat. E-mail curriculum vitae to: **Dr. Priscilla Cooper, e-mail: pkcooper@lbl.gov. Minority applicants encouraged.**

POSTDOCTORAL POSITIONS (six) on National Heart, Lung, and Blood Institute Training Grant in cardiovascular molecular biology. Studies include transgenics, knockouts, mouse physiology, heart failure mechanisms, gene-treatment strategies. Ph.D. and/or M.D. required. Must be a U.S. citizen or permanent resident. Contact: **Dr. Arnold Schwartz, Professor/Director, Institute of Molecular Pharmacology/Biophysics, University of Cincinnati, Cardiovascular Center, Cincinnati, OH 45267. Website: http://www.med.uc.edu/cardio_bio; e-mail: schwara@email.uc.edu. Equal Opportunity Employer.**



Lectureships in the School of Pharmacy

The School of Pharmacy at Queen's, one of the most dynamic areas within the University, is rapidly expanding its successful research and teaching activities. Substantial funding has been made available from the University and external sources to drive this expansion. There is now a major opportunity for innovative pharmaceutical scientists and academic pharmacy/health services professionals to join a forward-looking academic unit and to help shape the future of the School at a time when ambitious developments in infrastructure are planned to match the expansion in staff and student numbers.

Applications are invited for six newly established lectureships within the School of Pharmacy. The successful candidates will be expected to establish an independent line of research in their respective areas and to contribute to collaborative research programmes within the School. Teaching duties within the undergraduate and postgraduate programmes are a further requirement of all posts.

For all posts, a record of publication in quality, peer-reviewed research journals is required, commensurate with age and experience. A commitment to research-led teaching is essential.

Lectureships in Pharmaceutics (2 posts)

Post 1 (Ref: 99/P116C)

Focuses on physicochemical aspects of pharmaceutics. Applicants must have an honours degree (or equivalent) in pharmacy, chemistry or a closely related subject and a PhD (or equivalent) in a research area relevant to physicochemical aspects of pharmaceutics. In addition, a minimum of one full year of relevant research experience at postdoctoral level is required in one or more of the following areas: drug delivery/targeting; pharmaceutical technology; physical chemistry of pharmaceutical substances and/or systems.

Post 2 (Ref: 99/P117C)

Focuses on novel biomaterials, with an emphasis on enhanced-performance medical devices. Applicants must have an honours degree (or equivalent) in chemistry or a closely related subject and a PhD (or equivalent) in a scientific discipline relevant to biomaterials research. In addition, a minimum of one full year of relevant research experience at postdoctoral level is required, preferably with an emphasis on the chemical modification of biomaterials to improve their mechanical and/or biological properties.

For both of the above posts, teaching experience at University or equivalent level is desirable, as is evidence of success in obtaining external funding for research programmes.

Lectureship in Primary Care Pharmacy (Ref: 99/P118C)

This post focuses on primary care pharmacy. Applicants must have an honours degree (or equivalent) in pharmacy and a PhD (or equivalent) in pharmacy, with a minimum of three years postdoctoral experience in performing research into the provision of pharmaceutical care in the primary care setting. Teaching experience, at University or equivalent level, in clinical pharmacy/pharmacotherapy is essential, as is experience of gaining external funding for research programmes. Membership, or eligibility for membership, of the Pharmaceutical Society of Northern Ireland is essential.

Lectureship in Pharmacoeconomics or Pharmacoepidemiology (Ref: 99/P119C)

This post focuses on health services research. Applicants must have an honours degree (or equivalent), and a PhD (or equivalent) in a health services-related discipline with a minimum of one year of postdoctoral research experience in either pharmacoeconomics or pharmacoepidemiology. Teaching experience at University or equivalent level is desirable, as is evidence of success in obtaining external funding for research programmes.

Lectureships in Biomedical Chemistry (2 Posts)

These posts are funded by a major research grant from the McClay Trust and are available for 5 years in the first instance. Candidates must demonstrate a clear commitment to achieving an understanding of the molecular basis of biomolecular function and how this knowledge might be exploited for the rational design of putative therapeutic agents.

Post 1 (Ref: 99/P120C)

Focuses on the development of synthetic/medicinal chemistry approaches for the generation of ligand molecules for modulating receptor, enzyme, or gene function. Applicants must have an honours degree (or equivalent) in pharmacy, chemistry, biochemistry or a related discipline and a PhD (or equivalent) in a research area relevant to one of the above mentioned themes. Research experience in the development of solid phase synthesis approaches for the generation of combinatorial libraries would also be highly desirable.

Post 2 (Ref: 99/P121C)

Focuses on the development of biochemical, molecular biological or molecular pharmacological approaches to the study of one of the following: protease function/inhibition, receptor activation/function, intracellular signal transduction, protein-protein or protein-DNA interactions or the production of recombinant biopharmaceuticals. Applicants must have an honours degree (or equivalent) in biochemistry, molecular biology, molecular pharmacology or a related discipline and PhD (or equivalent) in a research area relevant to one of the above mentioned themes. Research expertise in the recombinant production of peptide/proteins, protein engineering or gene transfection would also be highly desirable.

For both the above posts, teaching experience at University or equivalent level is desirable, as is evidence of success in obtaining external funding for research programmes.

Further details about the School can be found at its website address: <http://www.qub.ac.uk/pha/index.html>

All appointments will be made on either the Lecturer A (£16,655 - £21,815) or Lecturer B (£27,726 - £29,098), scale depending on age and experience, with eligibility for USS. There is an attractive package to assist with relocation and resettlement expenses.

Closing date: 5.00 pm, 5 February 1999.

Applicants, quoting reference number(s) may obtain further particulars from the Personnel Office, The Queen's University of Belfast, Northern Ireland, BT7 1NN. Telephone (01232) 273044 or 273854 (answering machine). Fax (01232) 324944 or email: Personnel@qub.ac.uk

Committed to an Equal Opportunities policy and selection on merit, the University welcomes applications from all sections of the community. Under its affirmative action programme it particularly welcomes applications from women for academic posts.

POSITIONS OPEN

POSTDOCTORAL POSITION AT NATIONAL INSTITUTES OF HEALTH

The Laboratory of Cardiac Energetics, National Heart, Lung, and Blood Institute, is one of the foremost research sites of medical imaging technologies and clinical applications, including magnetic resonance imaging and new noninvasive imaging techniques. A Postdoctoral position is open in the area of ultrasound-based novel imaging techniques. The laboratory is fully equipped with electronics, chemistry, and physiology laboratories, in addition to several state-of-the-art human and animal magnetic resonance imaging systems. Applicants should have a Ph.D. degree, with strong theoretical and experimental training in general physics, and have interests in the area of new imaging technologies. The appointment is yearly renewable up to five years. The starting salary level is commensurate with the candidate's work experience and qualification. Please send your curriculum vitae within four weeks of the publishing date of this advertisement to:

H. Wen, Ph.D.
Building 10, Room B1D-164
10 Center Drive, msc-1061
Bethesda, MD 20892-1061 USA

POSTDOCTORAL POSITIONS IN BASIC AND TRANSLATIONAL CANCER GENETICS

Postdoctoral positions available for motivated individuals to study the molecular genetics of major adult cancers including prostate, breast, lung, and bladder. The work will involve identification of cancer genes, evaluation of genetic alterations and timing in precursor and neoplastic stages, construction of molecular progression models, and detection of neoplastic cells in clinical samples for molecular diagnosis and staging.

Experience in molecular biology is desirable. Please send curriculum vitae and names of references to: Dr. Paul Cairns, c/o Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. FAX: 215-728-2741; e-mail: p_cairns@fccc.edu. Equal Opportunity Employer.

POSTDOCTORAL POSITION AVAILABLE

A Postdoctoral position is available in the Department of Immunology and Infectious Diseases at Harvard School of Public Health. The area of research will focus on the mechanisms of how specific oligosaccharides induce CD4⁺ Th2 type responses, with particular reference to autoimmune diseases and the treatment of allergic asthma. Experience in immunology is preferred. Please send curriculum vitae and names of three references to: Dr. Donald Harn, Department of Immunology and Infectious Diseases, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115. FAX: 617-432-2082; e-mail: dharn@hsph.harvard.edu. Harvard University is an Affirmative Action/Equal Opportunity Employer.

An NIH-funded POSTDOCTORAL FELLOW position is now available in the Sealy Center for Molecular Cardiology for the study of gene regulation in vascular endothelial cells. Position requires experience in molecular biology, DNA/RNA techniques, and cell culture. Starting salaries are generous and commensurate with experience. Position is available with Cam Patterson, M.D.

Send curriculum vitae and names of three references to: Dr. Cam Patterson, Sealy Center for Molecular Cardiology, University of Texas Medical Branch, 301 University Boulevard, 9.138 Medical Research Building, Galveston, TX 77555-1064. E-mail: cpatters@utmb.edu. UTMB is an Equal Opportunity/Affirmative Action/Minority/Females/Disabled Veterans Employer.

POSTDOCTORAL POSITION UNIVERSITY OF PITTSBURGH

A Postdoctoral position is available to study the role of signaling proteins in human melanoma and its precursor lesions. The project involves cloning and characterization of proteins interacting with FGF receptors, and analysis of their function in melanoma development and angiogenesis. Experience in molecular biology is essential and knowledge in the area of signal transduction is desirable. Interested candidates should submit curriculum vitae and the names and addresses of three references to: Dorothea Becker, Ph.D., Department of Pathology, University of Pittsburgh, BST E1050, 211 Lothrop Street, Pittsburgh, PA 15213.

POSITIONS OPEN

POSTDOCTORAL RESEARCH FELLOWSHIPS IN PSYCHONEUROIMMUNOLOGY Sponsors: The Norman Cousins Center for Psychoneuroimmunology and the NIMH

Duration: one or two years upon completion of Ph.D., D.O., D.N.Sc., or M.D. and accredited Residency program. Eligibility: three positions available for U.S. citizens and permanent residents, three for non-U.S. citizens. Stipend: NIMH salary scale depending on experience. Fellows will work under preceptorship of a Senior Investigator on a topic of their choice. Practical research training, formal didactic, and elective seminars will be provided in neural and behavioral sciences, and immunology, etc. Both basic and clinical interdisciplinary research is emphasized (e.g., the psychobiology of autoimmune diseases in animal and human models). Deadline: March 15, 1999. Obtain application form from: The Norman Cousins Center for Psychoneuroimmunology, 300 UCLA Medical Plaza, Suite 2127, Los Angeles, CA 90095-7076. Telephone: 310-825-8281; FAX: 310-794-9247; e-mail: pni@mednet.ucla.edu.

UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE

POSTDOCTORAL POSITION available immediately to perform neurophysiology experiments in behaving monkeys to study functions of brain monoaminergic systems. The successful applicant will join an active group recording noradrenergic and dopaminergic neurons in locus coeruleus and midbrain during performance of cognitive tasks aimed at testing the roles of these systems in attention, reinforcement, and learning. Applicants with neurophysiology experience preferred. Excellent salary and benefits. Send curriculum vitae and names of three references to: Dr. Gary Aston-Jones, Department of Psychiatry, University of Pennsylvania, VA Medical Center (151), University and Woodland Avenues, Philadelphia, PA 19104.

POSTDOCTORAL POSITIONS

Available immediately to study the molecular aspects of human central nervous system diseases. One candidate will chemically synthesize agents to antagonize human CNS transporters; another will study the role of molecular basis of CNS disease including cDNA-expression, site-directed mutagenesis, and genomics; another will study biochemistry and molecular biology of detoxication catalysts. Candidates must have a Ph.D. or equivalent and experience in the area of research. Competitive salary available to highly motivated candidates. Send a curriculum vitae with names and addresses of three references to: John R. Cashman, Human BioMolecular Research Institute, 5310 Eastgate Mall, San Diego, CA 92121. FAX: 619-458-9305; e-mail: ledcash@aol.com.

POSTDOCTORAL POSITIONS AT THE SCRIPPS RESEARCH INSTITUTE

Newly funded positions available under two established Investigators to examine the functional role of proteolytic enzymes, their inhibitors, and cell adhesion molecules in vascular development and disease. Molecular biological, biochemical, and genetic approaches using *in vivo* mouse models and three-dimensional cell culture systems will be employed. Candidates must be U.S. citizens or permanent residents. Investigators: David J. Loskutoff, James P. Quigley. Send curriculum vitae and letter of interest to: Jennifer Lapin, The Scripps Research Institute, Department of Vascular Biology (VB-3), 10550 North Torrey Pines Road, La Jolla, CA 92037.

Two POSTDOCTORAL POSITIONS available immediately to study (1) the biochemistry of protein hormone receptors, and (2) to isolate and characterize novel genes involved in estrogen-induced apoptosis. Experience in molecular and cellular biology required. Good command of written and spoken English skills also required. Contact: Dr. Ana Soto, M.D., Cell Biology, Tufts Medical School, 136 Harrison Avenue, Boston, MA 02111. E-mail: asoto@infonet.tufts.edu; FAX: 617-636-6536.

M.D./Ph.D. POSTDOCTORAL RADIATION BIOLOGIST position. Experience in atomic force microscopy of radiation-damaged DNA. Knowledge of electron microscopy and confocal microscopy. Send curriculum vitae to: Anatoly Dritschilo, M.D., Georgetown University Medical Center, Radiation Medicine Department, 3800 Reservoir Road N.W., Washington, DC 20007. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL AND/OR RESEARCH ASSOCIATES HIV VACCINES The University of Montana

Two positions to study HIV binding and entry and to advance HIV vaccine findings described in the current issue of *Science* (LaCasse et al.). Ongoing projects include biochemical and immunologic analysis of purified env-CD4-coR complexes and neutralizing monoclonal antibodies, and mutational analysis of binding and fusion. Experience in protein biochemistry, vaccine immunology, and/or molecular biology required. Please send curriculum vitae and three letters of recommendation to: Jack Nunberg, Ph.D., Montana Biotechnology Center, The University of Montana, Missoula, MT 59812. FAX: 406-243-6425; e-mail: nunberg@selway.umd.edu. The University of Montana is an Equal Opportunity/Affirmative Action Employer and encourages applications from women, minorities, Vietnam-era veterans, and persons with disability.

Three POSTDOCTORAL POSITIONS are available to study (1) the role of calpains and caspases in cell injury and death, (2) the role of the extracellular matrix-integrin-cytoskeleton complex in cell repair and regeneration, and (3) molecular biology of Cl⁻ channels. Please send curriculum vitae and names of references to: Dr. Rick G. Schnellmann, Department of Pharmacology and Toxicology, University of Arkansas for Medical Sciences, 4301 West Markham, Slot 638, Little Rock, AR 72205. E-mail: schnellmannricky@exchange.uams.edu.

A POSTDOCTORAL POSITION is available to develop a papilloma virus vaccine. Send curriculum vitae and names of three references to: Dr. Liang Qiao, Loyola University Medical Center, Department of Microbiology and Immunology, Building 105, 2160 South First Avenue, Maywood, IL 60153. FAX: 708-216-1196; e-mail: lqiao@luc.edu.

GLOBAL OPPORTUNITIES

POSTDOCTORAL POSITION in New Zealand available immediately to join a group using the zebrafish to investigate developmental hematopoiesis. The research will involve carrying out a genetic screen and subsequent analysis. Candidate should have a strong background in developmental biology and/or genetics. Zebrafish experience ideal. Excellent salary for up to five years.

Please send curriculum vitae and the names, addresses, and telephone numbers of three referees to: Dr. Phil Crosier, Department of Molecular Medicine, School of Medicine, University of Auckland, Private Bag 92019, Auckland, New Zealand. Telephone: 64-9-373-7599, ext. 6279; FAX: 64-9-373-7010; e-mail: ps.crosier@auckland.ac.nz.

COURSES

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The Secretary of State for Scotland and the Board of Trustees invite applications for appointment as Regius Keeper (Director) of the Royal Botanic Garden Edinburgh (RBGE).

The RBGE is an executive Non-Departmental Public Body sponsored by The Scottish Office Agriculture, Environment and Fisheries Department and operates under a Board of Trustees established by the National Heritage (Scotland) Act 1985. The RBGE is the National Botanic Garden of Scotland and is a scientific institution of international importance for research on the world flora, the systematics, evolution, conservation and biodiversity of plants and the development of species for horticulture. It has large and important collections of living and preserved plants and fungi, an outstanding library, and modern laboratory facilities for electron microscopy and molecular systematics. Operating on an annual budget of approximately £7 million, the RBGE collaborates with the Scottish Universities and other institutions world-wide in botanical and horticultural teaching and research. The RBGE has an important educational role for both schools and the general public, and provides an outstanding public amenity in Edinburgh and at its three specialist regional gardens at Logan, Dawyck and Benmore.

The Regius Keeper is responsible to the Board of Trustees for the management of all aspects of the activities of the RBGE, for providing leadership to some 200 staff, for setting the RBGE's science policy and strategy and for maintaining and developing the RBGE as a centre of international excellence for research on plant systematics and conservation, and as a major resource of living and preserved plant collections. The Regius Keeper is also the Accounting Officer.

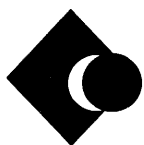
Candidates must have an outstanding record of achievement in one or more of the plant sciences, experience at a senior level in management, particularly in the areas of corporate and resource planning, and the ability to provide the RBGE with dynamic leadership and vision. The Regius Keeper must also have the ability to represent the RBGE at national and international meetings, maintain excellent public relations, further develop international collaborative links and play a key role in fund-raising from non-governmental sources.

The salary of not less than £60,000 will be negotiable, depending upon experience, and will be subject to performance-related annual reviews. The appointment is permanent and pensionable, and reasonable relocation expenses will be paid.

For full details, and details of how to apply, please contact The Scottish Office Recruitment Unit (RBGE), 16 Waterloo Place, Edinburgh, EH1 3DN, telephone 0131-244 3942, (or E-mail to mags.nicholson@scotland.gov.uk providing your full postal address). Completed applications must be returned by Tuesday 23 February 1999.

The RBGE is committed to the principle of equal opportunity in all appointments and to selection on merit with openness and transparency of process.

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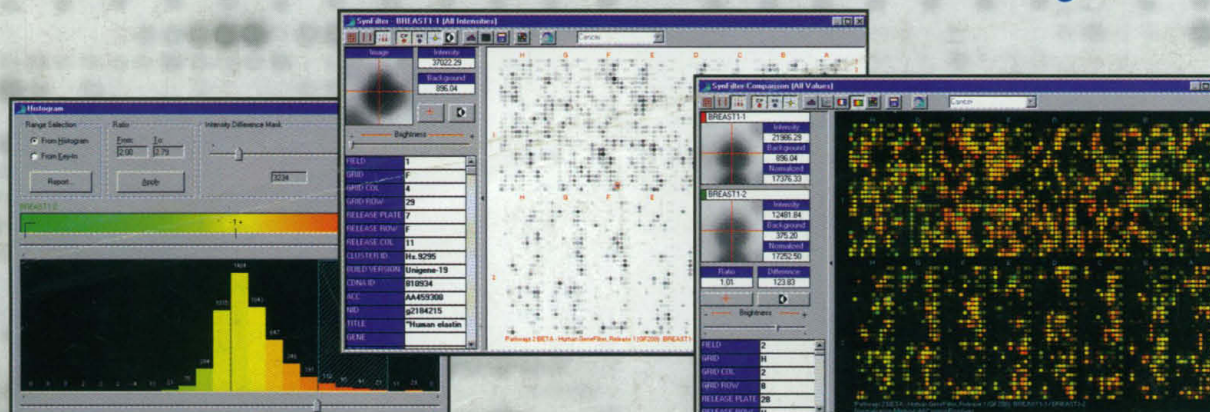
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Ref 1. Lennon, G., Auffray, C., Polymeropoulos, M., Soares, M.B. (1996) *Genomics* 33, 151-152.
2. <http://www.ncbi.nlm.nih.gov/UniGene/index.html>

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