

invites applications for the

1998-99



AAAS Science Scholars in Higher Education for Development

Selected Scholars will spend one year at the U.S. Agency for International Development (USAID) in Washington, DC, as part of a team to conceptualize, plan, and implement international development activities in which there is collaboration between USAID and the higher education community in the U.S. and abroad.

The Scholars program is designed to provide a unique, internationally-oriented, public policy experience; to demonstrate the value of science, technology, and education in addressing important societal problems; and to make practical contributions to the more effective use of educational policy and development in the foreign affairs and international programs of the U.S. government.

Scholars must have a minimum of five years experience in higher education international program administration and have a Ph.D. in any physical, biological, or social science, or any field of engineering. The emphasis will be on selecting individuals who have substantial experience in achieving results in university-style international programming.

This new program begins January 1, 1999 at USAID. The award includes a \$75,000 stipend plus allowances for international travel, relocation to Washington, DC, and health benefits. Deadline for receipt of applications is October 1, 1998. Finalists will be interviewed in early November. U.S. citizenship is required. The award is contingent upon the selectee obtaining a security clearance.

Application information is available from:

AAAS Science Scholars in Higher Education for Development Program

Tel: 202/326-6700

E-mail: science_policy@aaas.org

http://www.aaas.org/spp/dspp/stg/scholars.htm

MAMMALIAN GENOTYPING SERVICE

Sponsored by the National Heart, Lung, and Blood Institute National Institutes of Health

The Mammalian Genotyping Service is funded by the National Institutes of Health to assist in linkage mapping of genes which cause or influence disease. Genotyping is carried out using short tandem repeat polymorphisms at Marshfield, Wisconsin under the direction of Dr. James Weber. Capacity of the Service is currently about 4,000,000 genotypes (DNA samples times polymorphic markers) per year and growing. Although the Service was initially established for genetic projects dealing with heart, lung, and blood diseases, the Mammalian Genotyping Service will now consider all meritorious applications.

To ensure that the most promising projects are undertaken, investigators must submit brief applications that are evaluated by a scientific advisory panel. At this time, only projects involving humans, mice or rats and only projects with $\geq 10,000$ genotypes will be considered. There are no genotyping fees for approved projects. Application deadlines are every six months.

Upcoming Application Deadlines

September 30, 1998 March 31, 1999

For Application Instructions and additional information see:

http://www.marshmed.org/genetics

or contact:

Beth Busscher, Center for Medical Genetics Marshfield Medical Research Foundation 1000 N. Oak Avenue Marshfield, WI 54449 PHONE: (715) 389-3525 FAX: (715) 389-5757

EMAIL: busscheb@mfldclin.edu

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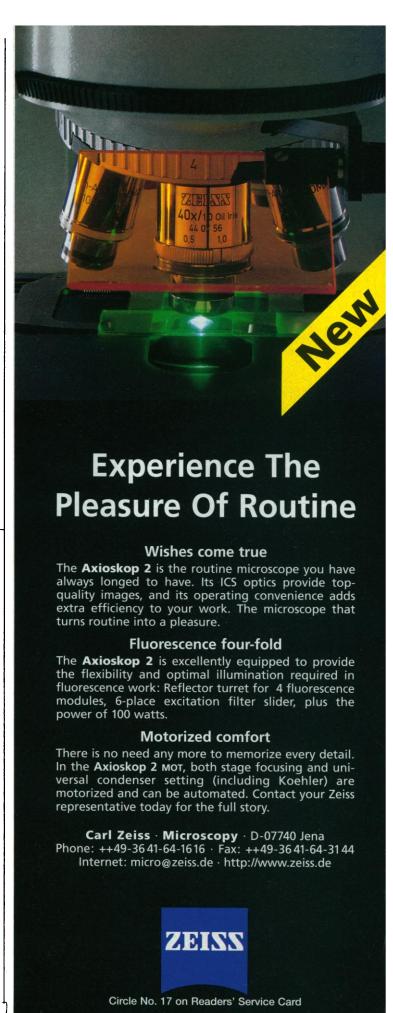


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INSTRUMENTATION, APPARATUS, AND LABORATORY MATERIALS

COLOR IMAGING SYSTEM

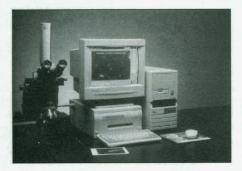
The Spectralmager is a color imaging system that features 1600 pixel by 1200 pixel resolution with true 24-bit color. It can cap-

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manual controls for multiple white balance settings, external light source synchronization, color or black and white adjustments, brightness, contrast, sharpening, and color enhancement. In preview mode the camera



provides five frames per second for easy focus and aperture adjustments. The system is comprised of a color charge-coupled device camera, SVGA monitor, customizable computer system, and software. Analysis functions include molecular weight-Rf calculations, one-dimensional multi-lane densitometry, two-dimensional spot densitometry, dot blot analysis, object distance measurements, and gel scoring.

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Chemists and life scientists working in combinatorial chemistry or genomics can boost their productivity with the new UNI-FILTER 384-well filter bottom microplates for high throughput screening. These microplates have the same size

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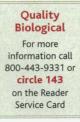
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prior to engraftment in gene therapy studies. These media are sterile-filtered, tested for endotoxin, and come packaged in plastic bottles of different volumes.

SEPARATORY FUNNEL

This new separatory funnel can prevent the vortexing of liquids during phase separation. The funnels are designed with an internal baffle plate to divert the liquids being separated from vortexing and then remixing. The funnels

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are available in sizes ranging from 500 to 6000 ml and are supplied with PTFE stopcocks and 29/42 center joints.

IMAGE ANALYSIS SOFTWARE UPGRADES

Upgrades of three software packages have recently been released. MetaMorph image analysis software now features the Measure Grid function, which allows users to lay out

an ordered array of circular or rectangular regions on an image and make measurements of intensity, signal-to-noise ratios, shape, size, and other parameters. It is designed to be used with gene chips, high-density libraries, enzyme-linked

Universal **Imaging** For more information call 610-344-9410 or circle 145 on the Reader Service Card

immunosorbent assays, multi-well plates, or similar techniques in which data are arranged in a regular array or grid. MetaFluor is ratio fluorescence software designed for single or dual wavelength intracellular ion measurements and is used in conjunction with fluorescent indicators such as fura2, fluo3, indo1, and BCECF. It gives users the ability to acquire up to five wavelengths and generate two ratios. MetaGFP is software for acquisition and analysis of time-based fluorescent and transmitted-light image sequences. It features a new ability to save color images as AVI movies.

COCKTAILS FOR DENDRITIC CELLS AND BASOPHILS

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LARGE AREA AVALANCHE PHOTODIODES

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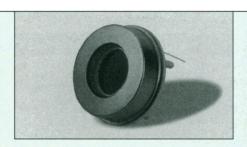
plications. LAAPDs offer quantum efficiencies of up to 90%, compared with 10 to 25% for typical PMTs. A built-in thermoelectric cooler and thermistor ensure stable operation over a wide ambient temperature range, while minimizing

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dark current and noise. Active area diameters of 5, 10, and 16 mm are available. LAAPDs offer several advantages for systems integration over fragile vacuum-tube PMTs, including compact, rugged construction, immunity to stray magnetic fields, and less susceptibility to damage from exposure to bright light. The technology offers greater dynamic

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.



range, no settling time, and simpler driving circuitry. They are suitable for a wide range of low-light detection applications including scintillation detection, medical instrumentation, radiation monitoring, color scanning, and emission spectroscopy.

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A new line of phycobilisome-labeled streptavidin reagents labeled with PBXL-1 and

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LITERATURE

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NEW YORK UNIVERSITY EXPERIMENTAL BIOPHYSICAL AND BIOORGANIC CHEMISTRY

The Department of Chemistry at New York University invites applications for TENURE-TRACK FACULTY POSITIONS in experimental biophysical and bioorganic chemistry, to begin September 1, 1999, pending final administrative and budgetary approval. Candidates should have a strong research record and be committed to teaching. Outstanding candidates will be considered at any level. Please submit applications, including curriculum vitae, two publications, a statement of research interests, and three letters of reference by December 1, 1998, to either: Search Committee for Biophysical Chemistry or Search Committee for Bioorganic Chemistry, Department of Chemistry, New York University, 100 Washington Square East, New York, NY 10003. Website: http://www.nyu.edu/pages/chemistry/.

NYU encourages applications from women and members of minority groups.

BIOLOGY FACULTY POSITION. Full-time, TENURE-TRACK position in biology at Shepherd College available beginning in fall 1999 in molecular genetics, microbiology, or molecular biology. A Ph.D. is required. The successful candidate is expected to develop courses in genetics and microbiology and participate in general biology program for non-majors. Research is encouraged. Opportunities exist with nearby USFWS, USDA, and NCI facilities. With an enrollment of over 4,000 students, Shepherd College is located on the banks of the Potomac River approximately 65 miles from Washington, D.C. and Baltimore and is a public baccalaureate institution in the West Virginia State College System. The application deadline is December 1, 1998. Send a résumé and arrange for at least three letters of reference to be sent to: Director of Human Resources, Shepherd College, Shepherdstown, WV 25443. For more information contact: Dr. Donald Henry, Chair, Division of Natural Sciences and Mathematics, Shepherd College, Shepherdstown, WV 25443. Telephone: 304-876-5106; e-mail: dhenry@shepherd.wvnet.edu. Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

FACULTY POSITION IN CELL BIOLOGY

The Department of Cell Biology at Duke University Medical Center is seeking applications for tenure-track faculty positions from interested candidates. Successful candidates with Ph.D., M.D., or equivalent with signifi-cant postdoctoral experience and/or active research programs will be considered at all ranks. We seek individuals who will establish or have outstanding, vigorous research programs investigating questions relevant to modern physiology at the molecular, cellular, or organismal level and who will participate in graduate and medical education. For more information about the department, see our website: http://note.cellbio.duke.edu. Send a complete curriculum vitae, a brief description of research interest, and the names, addresses, telephone and FAX numbers, and e-mail addresses of three references to: Faculty Search Committee, Department of Cell Biology, Box 3709, Duke University Medical Center, Durham, NC 27710. Deadline for application is October 15,

Duke University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS IN IMMUNOLOGY AND GENETICS

Virginia Mason Research Center (VMRC) is recruiting faculty to join our growing programs in immunology, diabetes, and genetics. Construction of a new laboratory research facility provides opportunities for innovative new or established Investigators who can contribute strong research programs in an interactive environment with extensive core facilities.

Applicants should send statement of research interests, curriculum vitae, and list of references to: Gerald T. Nepom, M.D., Ph.D., Director, Virginia Mason Research Center, 1000 Seneca Street, Seattle, WA 98101. Further information on VMRC programs can be found at website: www.vmmc.org/vmrc. Please respond by October 15, 1998. VMRC is an Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITION BIOCHEMISTRY AND MOLECULAR BIOLOGY

University of California, Los Angeles

The Biochemistry Division of the Department of Chemistry and Biochemistry invites applications for a tenure-track faculty position at the ASSISTANT PROFES-SOR level. (Appointments at other levels are possible in exceptional cases.) We are seeking a candidate who will contribute to our graduate program in biochemistry and molecular biology through the establishment of a vigorous and innovative research program. We will consider outstanding candidates in any area of biochemistry, but have a particular need for faculty with research interests in enzymology, RNA function, metabolism, or signal transduction. Teaching responsibilities will include undergraduate biochemistry and participation in graduate courses appropriate to the appointee's interests. Applications should include a curriculum vitae, a statement of research accomplishments and future research plans, and two to three reprints of representative publications. Applicants should also arrange for three letters of recommendation to be mailed to the address below. To assure consideration, all application materials and letters should be received by October 31, 1998. Submit to: Dr. A. Courey, Biochemistry Search Committee, Department of Chemistry and Biochemistry, University of California, Los Angeles, CA 90095-1569. The University of California is an Equal Opportunity/Affinnative Action Employer.

ACADEMIC CHEMISTRY FACULTY POSITIONS

The School of Chemistry and Biochemistry of the Georgia Institute of Technology seeks to fill several tenure-track faculty positions in chemistry and biochemistry including organic (medicinal, bioorganic, or polymer) chemistry, bioinorganic chemistry, computational chemistry, and bioanalytical chemistry. Applications will be considered at all levels. Further information is available at our website: www.chemistry.gatech.edu.

Candidates at the entry level should send an application letter, curriculum vitae, and a summary of research plans and should request three letters of reference. All materials and requests for information should be directed to: Chair, School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, GA 30332-0400.

Applications will be considered beginning October 15, 1998, but applications past that date will be considered until the positions are filled. *Georgia Tech is an Equal Education/Employment Opportunity Institution*.

Plant biology. The Department of Biology, Kenyon College, invites applications for a TENURE-TRACK POSITION in plant biology. Some preference will be given to research interests in plant development, plant pathology, or plant virology. The successful candidate will teach in the introductory sequence for undergraduates; teach advanced plant biology and other topics in their field of expertise; and advise undergraduate independent research projects. Kenyon provides research start-up support. Applicants should hold a Ph.D. degree and be able to demonstrate both teaching excellence and the potential to maintain research involvement by undergraduates. Statements of teaching and research interest, curriculum vitae, undergraduate and graduate transcripts, and three letters of reference should be sent directly to: Plant Search Committee, Biology Department, Kenyon College, Gambier, OH 43022. Review of applications will begin 26 October 1998.

An Equal Opportunity Employer. Kenyon affirms the values and goals of diversity; therefore, the applications of minorities and women are especially encouraged.

Mayo Clinic RESEARCH ASSOCIATE position or RESEARCH FACULTY position is available in the Transplant Immunology Program. The candidate should hold a Ph.D. and have at least three years of postgraduate experience. Applicants should have a strong background in molecular biology or protein or carbohydrate biochemistry. Experience in immunology and cellular physiology is desirable. Send a current curriculum vitae, bibliography, a description of research experience, and three letters of recommendation to: Jeffrey L. Platt, M.D., Director of Transplantation Biology, Departments of Surgery, Immunology, and Pediatrics, Mayo Clinic, Medical Sciences Building 2-79, 200 First Street S.W., Rochester, MN 55905. Mayo Foundation is an Affinnative Action and Equal Opportunity Employer and Educator.

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Insect Cell Biologist #9856

As a member of the world's largest life sciences company, you will join a multi-disciplinary research team whose objective is to manipulate insecticidal proteins for transgene expression in plants.

The qualified candidate must have a Ph.D. with at least 2+ years' postdoctoral experience in biochemistry, molecular biology or relevant field with a strong background in protein-protein interactions and ligand binding. We are especially interested in someone working in the area of receptor mediated endocytosis of insect toxins. A working knowledge of the yeast two-hybrid system, phage display and assay development is desirable. Molecular biology skills must include those related to vectoring and heterologous gene expression. Familiarity with insect and plant systems would be helpful. Scientific excellence, effective organizational skills and the ability to work in a team-oriented group is essential. Position #9856-SM-BRI

Fungal Molecular Geneticist #9828

In this role, you will be an active member of our fungal genetics project team as you conduct research in the areas of molecular targets, modes of action and modes of resistance to fungicides.

To qualify, you must have a BS or MS and 2 years of lab experience in biology, biochemistry, microbiology, or a related science. A background in molecular biology techniques including PCR, cloning and hybridization is also essential. Experience with model fungal systems strongly preferred. Familiarity with bioinformatics and DNA sequence analysis helpful. Position #9828-SM-BRI

Fungal Molecular Geneticist #9816

You will develop genetic approaches toward the identification of molecular targets of fungicides. Primary areas of involvement will include gene knock-out, mutant screening and characterization. To qualify, you must have an MS degree or a BS degree with 2 years of relevant experience. Strong knowledge of molecular biology techniques is essential. Previous experience with model or phytopathogenic fungal systems is preferred. Position #9816-SM-BRI

Plant Molecular Biologist #9587

As a project leader in the disease control group of Novartis Seeds, you will direct and perform research aimed at development of disease resistant crop plants using natural plant defense signaling pathways. You will also design and implement novel approaches to understanding and cloning genes controlling plant disease resistance. Your responsibilities will include supervision of 2-3 project scientists, with which you will work to achieve project goals. You will also be expected to participate and contribute to decisions affecting larger group activities. Qualifications for the position include a Ph.D. and 2+ years' postdoctoral experience in plant molecular biology, biochemistry, genetics, or a related field. We are looking for someone with supervisory experience, excellent communication and interpersonal skills, and ability to function as a member of a large project team. Position #9857-SM-BRI

Novartis offers a competitive salary commensurate with qualifications and experience, a comprehensive benefits package, and an environment conducive to professional achievement. Qualified candidates please paste your c.v. (including a skills list), followed by your cover letter, into the body of an e-mail and send to: novartisbiotech@recruitmentsolutions.com Indicate the position #___-SM-BRI in the subject area. To ensure that your information is uploaded into our HR System, please do not send your resume and cover letter as attachments. An Equal Opportunity Employer.

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CELLULAR & MOLECULAR IMMUNOLOGY RESEARCH

The Immunology Program at the H. Lee Moffftt Cancer Center & Research Institute and the College of Medicine at the University of South Florida invite applications for Assistant, Associate and Full Professor level positions in the area of molecular mechanisms for immune regulation and cancer immunology. Members of the Immunology Program work on signal pathways in Jymphocytes and neutrophils, MHC Class I and II gene regulation and antigen processing in tumor cells, and molecular approaches to immunotherapy. The laboratories are in new state-of-the-art facilities, shared by collaborative and supportive scientists focused on molecular oncology and signal transduction.

Applicants must have a demonstrated track record in cancer research and preference will be given to those with established research programs. Successful individuals for Assistant Professor must hold a M.D. or Ph.D. degree with a minimum of 3-4 years post-doctoral training and evidence of recent peer-reviewed publications. Individuals at the rank of Associate Professor must have a demonstrated potential for extramulal funding and at least 5 years of active and sustained participation as an Assistant Professor. Individuals for Full Professor must have a proven track record of independent research, leadership ability and training experience as evidenced by publications and extramural funding as well as 5 years of active and sustained participation as an Associate Professor. Academic rank and salary will be commensurate with experience and qualifications. These positions will be assigned to specific, mutually agreed upon departments within the College of Medicine with the possibility of tenure.

Send current curriculum vitae and a brief statement of major academic interest to W. J. Pledger, Ph.D., Associate Center Director for Basic Research, H. Lee Moffitt Cancer Center and Research Institute, 12902 Magnolia Drive, Tampa, Florida 33612. Applications must be postmarked by the deadline of October 15, 1998.

The H. Lee Moffitt Cancer Center & Research Institute is a free-standing, newly designated National Cancer Institute Cancer Center located adjacent to the Health Sciences Center on the Tampa campus of the University of South Florida. In addition to a 162-bed full service cancer treatment facility, the Center has research laboratory space in four buildings including over 120,000 square feet of dedicated laboratory and support space in a new Cancer Research Center.



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FACULTY POSITION POPULATION GENETICS THE OHIO STATE UNIVERSITY

The Division of Human Cancer Genetics within the Department of Medical Microbiology and Immunology in the College of Medicine and Public Health is initiating a search for a tenure-track faculty member at the Assistant or Associate Professor level. We are seeking a population geneticist with an interest in cancer, including cancer epidemiology and predisposition.

The candidate should have a Ph.D. or M.D., postdoctoral experience, and a strong commitment to research. A highly competitive recruitment package is available, which includes an attractive salary and funds for equipment and initial operating expenses. The Ohio State University is undergoing a major expansion in the field of human cancer genetics (under the leadership of **Dr. Albert de la Chapelle**) and the molecular life sciences, which will involve the hiring of more than 30 new faculty over the next few years. The Ohio State University is the flagship institution of the state's higher education system. The campus includes an NIH-funded comprehensive cancer center, the College of Medicine and Public Health, the College of Biological Sciences, other colleges in the health sciences, and a comprehensive undergraduate campus. The University is located in the state capital, Columbus, which is a growing, yet highly affordable, metropolitan area of about 1.5 million people. *Newsweek* has ranked Columbus as one of the country's best places to live and work.

Applications should include a detailed curriculum vitae, three letters of recommendation, a list of names and addresses of possible additional references, a statement of research experience, and a statement of the nature of the planned independent research program. Information about the University and the Human Cancer Genetics Program can be obtained from the OSU website (http://www.osu.edu and http://www.phenotype.med.ohio-state.edu). Applications should be sent to: Albert de la Chapelle, M.D., Ph.D., Director, Human Cancer Genetics Program, 646 Medical Research Facility, 420 W. 12th Avenue, Columbus, OH 43210.

The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disability are encouraged to apply.

Waterloo

Department of Biology

MICROBIOLOGY

The Department of Biology of the University of Waterloo is seeking a MICROBIOLOGIST prepared to establish an active research program in environmental microbiology, microbial biotechnology, or similar areas. Duties include teaching at the undergraduate and graduate levels, and graduate student supervision. We will entertain applications from candidates of all nationalities, and at the rank of assistant, associate, or full professor.

Salary will be commensurate with qualifications and experience. Applicants should send their curriculum vitae, the names of three individuals willing to furnish letters of reference, and an outline (1–2 pages) of their proposed research program to: Dr. William D. Taylor, Professor and Chair, Department of Biology, Faculty of Science, University of Waterloo, Waterloo, Ontario N2L 3G1 CANADA.

The closing date for applications is September 30, 1998.

In accordance with Canadian Immigration requirements, equally qualified Canadian citizens and permanent residents will be given first preference. The University of Waterloo encourages applications from all qualified individuals, including women, members of visible minorities, native peoples, and persons with disabilities.

Additional information on the Department is available at http://www.science.uwaterloo.ca/biology/biology.html.

PENNSTATE



College of Medicine

ASSISTANT PROFESSOR, INSTRUCTOR, POSTDOCTORAL FELLOW CARDIAC CELL GROWTH

Positions available to investigate the molecular control of cardiac cellular growth in the Laboratory of Dr. Kenneth M. Baker. The successful candidate should have a Ph.D. and/or M.D., and a strong background in molecular and cellular biology and biochemistry with commensurate experience.

The Weis Center for Research in Danville, PA is part of the Penn State College of Medicine, and provides modern research facilities. This location is a pleasant, semi-rural living environment, with convenient access to the metropolitan areas of New York, Baltimore, and Washington, D.C.

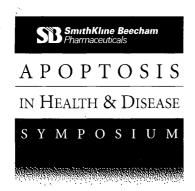
Interested individuals should send their curriculum vitae and the names of three references to:

Mrs. Barbara A. Brown
Administrative Assistant
Henry Hood Research Program (KMB)
Sigfried and Janet Weis
Center for Research
100 North Academy Avenue
Danville, PA 17822-2601

For your health, the Weis Center for Research of the Pennsylvania State University is a smoke-free campus. An Affirmative Action/Equal Opportunity Employer. Women and Minorities Encouraged to Apply.

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^{*} This is a smoke-free site.

VICE PRESIDENT FOR RESEARCH MEDICAL COLLEGE OF GEORGIA

The Medical College of Georgia (MCG) invites applications and nominations for the position of Vice President for Research. As Georgia's health sciences research university, MCG includes schools of medicine, dentistry, nursing, allied health sciences, and graduate studies as well as a tertiary-care hospital and clinics. MCG has a student enrollment of over 2,000 and approximately 670 faculty members in multiple health sciences disciplines.

There are about 475 active sponsored projects supported by 26 million dollars of extramural funds. MCG's strategic plan for research focuses on molecular medicine and genetics, immunology, vascular biology, aging, health services, and applied biomedical research.

The Vice President for Research reports to the Senior Vice President for Academic Affairs and is the senior administrative leader for the institution's research and development efforts. All aspects of research program planning and implementation is expected. In particular, the Vice President will serve a liaison and advocacy function with the university faculty and administration as well as federal, foundation, and corporate research entities. The Vice President is responsible for the management of intellectual properties, conflicts of interest and responsible conduct of research, and other research compliance issues. The Vice President oversees the Offices of Grants and Contracts, Biostatistics, Clinical Trials Compliance, and Research Support Services. The Vice President for Research serves as Vice Chairman of the Board of Directors of the Medical College of Georgia Research Institute, Inc.

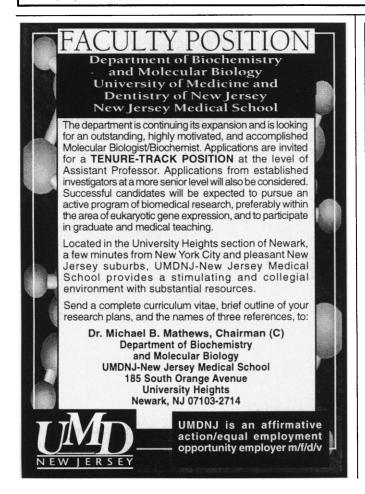
The successful candidate should have an earned doctoral degree, as well as established scientific and academic credentials reflecting significant expertise in the development and funding of research efforts along with administrative experience preferably in an academic medical center. Academic appointment in a department within the institution is desirable, and opportunities exist for ongoing involvement in academic and research programs. Review of candidates will begin September 1, 1998, and will continue until the position is filled. Interested applicants should submit a curriculum vitae; a cover letter describing the candidate's research, academic, and administrative experience; and the names and addresses of three references. The Medical College of Georgia encourages nominations and applications from women, minority, and disabled candidates.

Applications and nominations should be submitted to:

John D. Catravas, Ph.D.
Chair, Search Committee
Vice President for Research
CB 1327
Medical College of Georgia
Augusta, GA 30912-7200
E-mail: jcatravas@mail.mcg.edu

Telephone: (706) 721-6338 Fax: (706) 721-9799







DIRECTOR INSTITUTE OF MOLECULAR MEDICINE THE UNIVERSITY OF TEXAS-HOUSTON

The University of Texas-Houston Health Science Center invites nominations and applications for the position of Director of UT-Houston Institute of Molecular Medicine for the Prevention of Human Diseases. The Institute was created in 1996 to investigate mechanisms of disease processes at the molecular level in a highly interactive environment and to develop rational treatment and prevention strategies. The founding director, the late **Dr. Hans Müller-Eberhard**, established the following active centers and laboratories: Immunology and Autoimmune Diseases, Cardiovascular Diseases, Human Genetics, Developmental Biology, Cell Analysis, and Protein Chemistry. The Institute occupies 38,000 sq. ft. in a modern research facility. Plans are in progress to increase the physical size and add additional centers in disease-oriented basic science research.

The director will be an internationally prominent researcher in molecular medicine who can guide the further development of the Institute and its faculty in the context of a dynamic academic health center. The director reports directly to the president of UT-Houston.

Applications and nominations should be directed to Thomas F. Burks, Ph.D., Executive Vice President for Research and Academic Affairs, The University of Texas Health Science Center at Houston, P.O. Box 20036, Houston, TX 77225. Telephone: 713/500-3060, Fax: 713/500-3069, e-mail: tburks@admin4.hsc.uth.tmc.edu.

The University of Texas Health Science Center at Houston is an Equal Opportunity Employer. Women and minorities are encouraged to apply. Applications and nominations will be reviewed until the position is filled.



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vision in

pharmacogenetics

Incyte Pharmaceuticals, Inc. announces the formation of Incyte Genetics, a new division that will complete a map of the human genome within one year, produce a large-scale genome sequence database, and generate single nucleotide polymorphism (SNP) data for every human gene. This new endeavor has created a variety of exciting career opportunities in our three locations.

We're looking for individuals who share our vision and want to play a role in defining this new industry as we build our organization. We offer competitive salaries, an outstanding benefits package, and significant opportunities for professional growth. Incyte is proud to be an equal opportunity employer and recognizes the talent of its diverse workforce.

Please send your resume to Incyte Pharmaceuticals – Human Resources 3174 Porter Drive, Palo Alto, CA, 94304, email to employ@incyte.com, or fax 650 845 4176.

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Production Scientists
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Senior Scientists
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Bioinformatics Programmers
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BAC Library Scientists
BAC Prep Research Associates
Bioinformatics Scientists
Bioinformatics Programmers
Gene Discovery Library Production Scientists
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St. Louis, Missouri

Mapping Lab Associates Lab Technicians Research Assistants Bioinformatics Associate Production Associates

To learn more about Incyte Genetics and Incyte Pharmaceuticals visit our web site at www.incyte.com



SmithKline Beecham, a world-class leader in Research and Development, continues to pioneer innovative pharmaceutical and healthcare products and services. At SmithKline Beecham, the application of high-throughput synthesis and highthroughput screening is resulting in an extraordinary increase in the numbers of compounds and corresponding data being generated for drug discovery. We continue to expand our transnational Cheminformatics group to work closely with medicinal chemists and screening scientists in the UK and US in the collection, transfer, manipulation, and exploitation of data.

Senior Scientist/Cheminformatics

As part of our Cheminformatics team, the selected scientist will work with Discovery Chemistry in use and customization of the sophisticated computer-based library design, tracking, and analysis tools demanded by the advent of combinatorial and automated chemistry. Responsibilities include: providing training and support for medicinal chemistry specific applications; identifying and evaluating potential new applications; interfacing with central help desk and other support teams; testing new in-house and commercial software; and preparing technical documentation, training materials, and user quides. materials, and user guides.

Requirements include a MS in chemistry or related discipline plus a minimum of 2 years' relevant experience or a PhD with relevant experience. Some background in providing computer support within a scientific environment, or experience with chemistry software packages and databases (e.g., ISIS, MACCS) is also required. Solid understanding of the medicinal chemistry process, and familiarity with word processing/desktop publishing programs are highly desirable. Ability to develop simple applications using VBA/Delphi is a plus.

SmithKline Beecham offers a competitive compensation/benefits/relocation package. For confidential consideration, please send your CV and the names of three references to: SmithKline Beecham Pharmaceuticals, Job Code: H8-0248, PO Box 40047, Philadelphia, PA 19106. Indicating Job Code is essential. We are an Equal Opportunity Employer, M/F/D/V.

www.sb.com





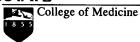
Department of Psychobiology School of Biological Sciences University of California, Irvine University of California, Irvine

We announce a search for a distinguished neuroscientist to assume the position of Chair of the Department. We seek a renowned scientist with an interest in maintaining an active research program and a strong desire to play a leadership role in the neurosciences at UCI. The Department's 22 faculty members have an overall research theme of neural plasticity, studied at the cellular/molecular to systems/behavioral levels. The Department has a distinguished graduate training program and contributes to the education of undergraduate Biology majors. The Department is undergoing a period of growth, and the new Chair is expected to play a leadership role in the recruitment of new Departmental faculty. Campus research resources affiliated with the Department include the Center for Neurobiology of Learning and Memory and the Institute for Brain Aging and Dementia. The appropriate candidate will be considered for a Donald Bren Professorship, which includes an endowment for research. The Department maintains a strong administrative structure to assist the Chair in its daily operation. Further information about the Department is available at http://darwin.bio.uci.edu/ psybio/.

We invite applications and nominations for this position. Applicants should include a curriculum vitae, and a list of at least 3 references, along with a letter stating interests and qualifications. Salary commensurate with qualifications. Review of applications will begin on September 30 and will continue until the position is filled. Send applications or nominations to: Chair Search Committee, Dept. of Psychobiology, 2205 Bio Sci II, University of California, Irvine, CA 92697-4550.

UCI is an Equal Opportunity Employer committed to excellence through diversity.

PENNSTATE



POSTDOCTORAL POSITIONS DEPARTMENT OF PHARMACOLOGY

Postdoctoral positions are available to participate in the preclinical development of novel anticancer drugs. NCI-funded projects involve QSAR-driven design, synthesis and evaluation of MDR modulators; and characterization of ras protein palmitoylation. For additional information see: www.fccc.edu/research/reports/ current/smithc.html. Qualified candidates with experience in 1) synthetic organic chemistry; 2) in vivo models for cancer chemotherapy, especially MDR; or 3) enzyme purification and characterization are invited to apply. Send curriculum vitae and names of three references to: Charles D. Smith, Department of Pharmacology, JOB #: 3387W, H078, The Pennsylvania State University College of Medicine, P.O. Box 850, Hershey, PA 17033. Applications accepted until positions are filled. AA/EOE

Ph.D. Mass Spectrometrists

Three Mass Spectrometry positions, one as an LC-MS/MS and GC-MS/MS Research Program Coordinator and two as Postdoctoral Fellows, are available immediately in the College of Medicine, University of Florida.

The Mass Spectrometry Research Program Coordinator is for a new core facility at the University's NIH-funded General Clinical Research Center (GCRC) and will be responsible for developing new methods for various biomedical studies, structural identifications, operation and maintenance of the instruments, and supervision of one or more technicians. Preferred candidates will have a Ph.D. and two years of experience, but applicants with an M.S. degree with exceptional research experience will also be considered. Expertise is essential in Analytical Mass Spectrometry and the application of LC-MS/MS or CE-MS/MS methods to biological samples. The range of molecules studied will include peptides, proteins, nucleotides, DNA, and small molecules. Salary negotiable for this position. Send résumé with cover letter and references to Greg Marwede, P.O. Box 115002, University of Florida 32611. Reference LP#607590. Application deadline is September 17, 1998. If an accommodation due to a disability is needed to apply for this position, please call (352) 392-4621 or TDD (352) 392-7734.

The first Posdoctoral Fellow position is for an NIH-sponsored project that involves the development of GC-MS and other methods for drugs and metabolites labeled with stable isotopes and the application of the methods for investigating drug kinetics and metabolism in humans. The applicant must be proficient in GC-MS or LC-MS and their application to biological samples. Knowledge of drug metabolism is helpful. The second Postdoctoral Fellow position is for an EPA-sponsored study investigating the kinetics and metabolism of chlorinated water disinfection by-products (DBPs) in humans. Qualifications for this position are similar to the previous one. Experience with DBPs is helpful.

For the Postdoctoral position, send cover letter, CV, and names of references to Dr. George N. Henderson, Director, GCRC Core Laboratory, Department of Medicine, Box 100226, JHMHC, University of Florida, Gainesville, FL 32610-0226 (e-mail address: hendegn@medicine.ufl.edu) or call (352) 392-2321 for further information.

AA/EA/EEO

DEPUTY DIRECTOR

NATIONAL HEART, LUNG, AND BLOOD INSTITUTE NATIONAL INSTITUTES OF HEALTH

The National, Heart, Lung, and Blood Institute (NHLBI), located in Bethesda, MD, is recruiting for a Deputy Director. This incumbent will share responsibility with the Director in the formulation of the Institute's policies and procedures designed to affect efficient execution of Institute programs and activities, including basic research, clinical investigations and trials, observational studies, and demonstration and education projects related to the causes, prevention, diagnosis and treatment of heart, blood vessels, lung and blood; sleep disorders; and blood resources.

This is a civil service position in the Senior Executive Service with an annual salary ranging from ES-1 (\$106,412) to ES-6 (\$125,900). Candidates may be eligible for relocation or other bonuses. The applicant must possess at least a Bachelor's degree with major study in the biomedical or health sciences with a Ph.D. highly desirable or an M.D. degree. Physicians must possess a Doctor of Medicine or Doctor of Osteopathy degree from a school in the United States or Canada approved by a recognized accrediting body in the year of the applicant's graduation. [A Doctor of Medicine or equivalent degree from a foreign medical school that provided education and medical knowledge substantially equivalent to accredited schools in the United States may be demonstrated by permanent certification by the Educational Commission for Foreign Medical Graduates (ECFMG) (or fifth pathway certification for Americans who completed premedical education in the United States and graduate education in a foreign country).]

The vacancy closes October 5, 1998.

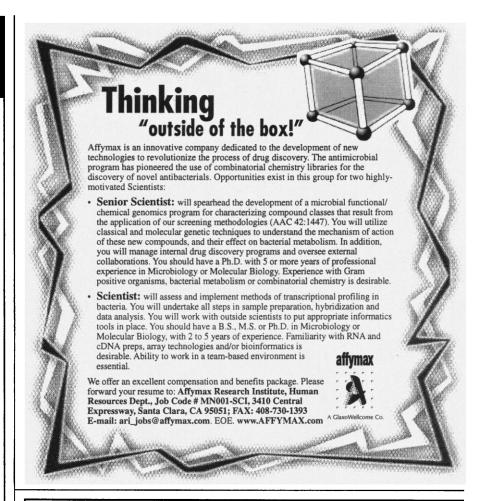
<u>Applicants must possess a selective factor of:</u> Medical or scientific research expertise in heart, lung or blood diseases.

In addition, applicants must possess demonstrated, responsible, professional experience in the medical research or public health field at the senior level (GS-15 or equivalent) that meets the mandatory Knowledge, Skills, and Abilities (KSAs).

To obtain the mandatory Knowledge, Skills, and Abilities, the Executive Core Qualifications, and application procedures, please contact:

> Kathryn Osbourn National Heart, Lung and Blood Institute National Institutes of Health Building 31, Room 5A28 31 Center Drive, MSC2484 Bethesda, MD 20892-2484 (301) 496-6477

NIH is an Equal Opportunity Employer



PHARMACOKINETIC MODELER/TOXICOLOGIST

Haskell Laboratory for Toxicology and Industrial Medicine is seeking to hire an innovative pharmacokinetic modeler to lead the application of modeling to diverse toxicology projects within the DuPont Company. The successful candidate will perform studies as well as mentor others in the application and use of this technology. The successful candidate will also serve as study director and consultant for new-product discovery and regulatory metabolism/pharmacokinetic studies. This position requires close collaboration with associate scientists and with other principal investigators at Haskell Laboratory and throughout the corporation. While much of the work will involve projects of interest to the Agricultural Products Enterprise, there will also be applications to projects sponsored by other DuPont businesses and affiliates.

Minimum requirements for the position include Ph.D. degree in toxicology/biology/chemistry/engineering; three years of related technical experience beyond doctorate; expertise in pharmacokinetics; strong simulation modeling skills (physiologically based pharmacokinetic modeling, e.g., ACSL); strong understanding of mammalian metabolism and xenobiotic biotransformation processes (absorption/distribution/metabolism/excretion); strong foundation in toxicological principles in mammals; good networking, oral/written communication, and interpersonal skills.

Other desirable skills include ability to mentor others in pharmacokinetic modeling; ability to consult regarding the use of simulation modeling to address toxicological problems; ability to apply pharmacokinetic data and modeling to risk assessments; bioanalytical/instrumentation skills (GC/LC/MS); supervisory skills.

Interested applicants should apply by mail or fax to:

E. I. du Pont de Nemours and Company Stine-Haskell Research Center Attention; Human Resources (S200/130) Job #AG982620 P.O. Box 30 Newark, DE 19714

Fax: 1-800-631-2206

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nature Structural biology

seeks a

TALENTED MOLECULAR BIOLOGIST

to join its full-time staff in New York, as an Assistant Editor. This position provides a superb opportunity to enter the world of scientific publishing while staying at the forefront of modern research. The successful candidate will work closely with other members of the editorial team on all aspects of the editorial process, including manuscript selection, commissioning and editing reviews, writing for the journal and liaising with the scientific community.

The ideal applicant will have a PhD and postdoctoral research experience in molecular biology (preferably with some knowledge or experience of structural biology), good writing skills and standing within the community, and a keen interest in the communication of science.

Please submit a CV, a short 800-1000 word News and Views-style article on an exciting, current and newsworthy area of molecular/structural biology and a short cover letter explaining your interest in the position to:

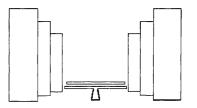
The Editor
Nature Structural Biology
345 Park Avenue South, 10th Floor
New York, NY 10010-1707
Fax: 212 679 0735
e-mail: nsb@natureny.com

The closing date for applications is the 30th of September.



Nature America Inc.

Nature America, Inc. 345 Park Ave. South New York, NY 10010



PLANT BIOLOGY

AT THE SALK INSTITUTE

The Salk Institute for Biological Studies invites applications for a faculty position in Plant Biology. Candidates must have an outstanding record of research achievement. The successful candidate is expected to develop a strong research program in the general area of modern plant biology. While the position is open to candidates at all levels, we particularly encourage applications at the Assistant Professor level, as well as applications in the general areas of cell biology and plant-pathogen interactions. Qualified candidates should send a curriculum vitae, a short statement of research interests and scientific goals, reprints of key publications, and the names and addresses of three individuals who have been asked to submit letters of recommendation to:

Joanne Chory and Detlef Weigel
Plant Biology Search Committee
Plant Biology Laboratory
The Salk Institute for Biological Studies
10010 N. Torrey Pines Rd
La Jolla, CA 92037

The Salk Institute is an Equal Opportunity Employer

www.salk.edu

Research Scientist/Cell Biology

Sunesis Pharmaceuticals is a venture-funded company dedicated to the discovery of novel small-molecule drugs by the integration of innovative chemical and biological approaches. Our co-founders, **Dr. Jim Wells** (formerly of Genetech) and **Prof. Jon Ellman** (UC Berkeley), have made important contributions to the fields of protein engineering and combinatorial chemistry throughout the 1990s.

We are looking to hire a Cell Biologist to help us develop cell-based assays and to probe the cellular mechanisms and activities of small molecules we have designed to specific protein targets. The individual should have a Ph.D. and preferably 2+ years of postdoctoral experience.

We are looking for highly motivated individuals with a strong and consistent record of productivity. The individual should have a passion for science and a strong desire to work in a research team environment toward building a great company. We offer the opportunity for career growth, a highly competitive salary, generous equity participation, and an attractive benefits package. Please send your CV, including cover letter and a list of references, to:

Jim Wells Sunesis Pharmaceuticals 3696 Haven Avenue #C Redwood City, CA 94063

or by fax: 650-556-8824 or e-mail to: jobs@sunesis-pharma.com including cell biologist in the subject line.

science serving society

THEORETICAL DIVISION DIRECTOR

The Theoretical Division Director provides scientific leadership and manages an organization of 250 people engaged in basic and applied research in theoretical physics, chemistry, biology, and mathematics. The Division also carries out theoretical and computational research in support of Laboratory programs including nuclear and conventional defense, nonproliferation, energy and basic sciences, and industrial collaborations.

Candidates for the position must have demonstrated significant accomplishment in a theoretical scientific discipline and a record of scientific leadership. Experience in technical management in a research organization is also highly desirable. Candidates must have a Ph.D. in a scientific discipline or equivalent combination of education and experience.

Ability to obtain a DOE Q-clearance, which normally requires U.S. citizenship, is required.

For details on responsibilities and requirements for the position, consult http://www.hr.lanl.gov/Jobs/external/ for job ad #983834. Further information on Theoretical Division research activities may be found at http://www-tdo.lanl.gov/. For questions about this ad, please call Mark Trujillo at (505) 665-6592.

For consideration, please send your resume referencing "Science983834" to: jobs@lanl.gov (no attachments, please)

Human Resources Division Los Alamos National Laboratory "Science983834" Mail Stop P286 Los Alamos, NM 87545

.os Alamos

www.lanl.gov

EOF

Operated by the University of California for the Department of Energy

Albany Medical College Professor and Co-Director Molecular Basis of Disease

In association with an expansion in biomedical research and graduate research training in selected interdisciplinary thematic areas of research, Albany Medical College announces the availability of a senior, tenured position as Professor with administrative responsibilities to codirect a new Interdisciplinary Research Group in Molecular Basis of Disease. Scientists with a Ph.D., M.D., or M.D.-Ph.D. currently at either the Associate Professor or Professor level are invited to apply. Applicants must have a track record of research excellence, NIH grant funding, and experience in mentoring graduate students or postdoctoral fellows. Ideal candidates should have expertise in either viral microbial pathogenesis, immunology, molecular genetics, microbial metabolism, immunopathology, or cancer biology. Departmental academic appointment can be in a basic science or clinical department.

Expansion of the College's research and scientific training programs coincides with funding of the Medical Center's new Institutional Strategic Research Plan by the Board of Directors designed to expand the size of the research faculty; develop core research support facilities; increase our basic and clinical research programs; and restructure the Ph.D. training programs in selected interdisciplinary areas. Other interdisciplinary thematic areas of emphasis include Vascular Biology; Neuropharmacology and Neuroscience; as well as Cell and Molecular Biology. Thematic areas of research will provide the foundation for interdisciplinary predoctoral and postdoctoral training programs. Interactions between the Interdisciplinary Research Groups and Clinical Centers of Excellence are projected. Excellent opportunities exist for joint collaborative research efforts with the Wadsworth Center at the New York State Health Department.

The research interests of the current faculty in the Interdisciplinary Research Group include microbial metabolism, microbial molecular pathogenesis, DNA damage and repair, oxidative stress, antigen presentation, nucleic acid structure and gene expression, Cell cycle control, antibacterial drug resistance, as well as liver and breast cancer. The candidate selected will have an opportunity to recruit additional tenure-track faculty to the research group.

Applicants should submit curriculum vitae and a letter of intent to: Thomas M. Saba, Ph.D., Senior V.P. for Research, Box A-134, Albany Medical College, Albany, NY 12208. Internal selection process will begin in October.

An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.



TWO TENURE-TRACK FACULTY POSITIONS IN NEUROSCIENCE

West Virginia University Robert C. Byrd Health Sciences Center

As part of a major initiative in the Neurosciences, the School of Medicine invites applications for two tenure-track JUNIOR FACULTY positions available summer 1999. These individuals will join a growing, interactive, and multidisciplinary group studying fundamental questions in sensory neuroscience, and are expected to establish vigorous, independent research programs. Outstanding applicants that hold Ph.D. or M.D. degrees with established records of research productivity are invited to send a statement of research interests and professional goals, a curriculum vitae, reprints of publications, and arrange to have three letters of recommendation sent to the appropriate chairman by December 1, 1998. Applications received by the deadline will be given first consideration.

The OTOLARYNGOLOGY DEPARTMENT seeks a scientist applying molecular or cellular approaches to investigate the role of signal transduction in the development, regeneration, or normal cell biology of any of the neurosensory systems. Address application to: Dr. Stephen Wetmore, Chair, Department of Otolaryngology, West Virginia University HSC, Morgantown, WV 26506-9200.

The CENTER FOR ADVANCED IMAGING seeks a scientist who studies sensory or language processing utilizing MRI and/or PET. This individual will help guide expansion of the center, which currently houses modern MR and PET scanners, and implementation of novel applications of these technologies to the study of brain activation and neurochemistry. Address application to: Dr. Mathis Frick, Chair, Department of Radiology, West Virginia University HSC, Morgantown, WV 26506-9235.

West Virginia University is an Equal Opportunity/Affirmative Action Employer.

THE CLEVELAND CLINIC FOUNDATION



LERNER RESEARCH INSTITUTE

Faculty Positions in the Department of Neurosciences The Cleveland Clinic Foundation Lerner Research Institute

The Department of Neurosciences seeks outstanding candidates to fill several Faculty positions. While the search is focused at the Assistant Staff level, qualified Associate or Full Staff candidates will be considered. Applicants must have a Ph.D. and/or M.D. and an active, independent research program that utilizes state-of-the-art techniques to investigate cellular and molecular aspects of neurobiology. Candidates with research programs in neuronal differentiation, neuronal death, cell signaling, or pathogenesis of human CNS disease are encouraged to apply. Excellent departmental facilities and generous start-up funds are available.

The Department of Neurosciences and the Lerner Research Institute are undergoing rapid growth with the opening of the Lerner Research Institute in October, 1998. The Department of Neurosciences has strong programs in developmental and cellular neurobiology, excitable membranes, cell signaling, and human genetics. Opportunities for interactions with Clinical Neurosciences Departments are plentiful.

Candidates should sumbit a curriculum vitae, a list of publications, a brief statement of research interests, and three letters of reference to:

Search Committee, Department of Neurosciences NC30, Lerner Research Institute, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44915.

The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.

Postdoctoral Opportunities

Mount Sinai School of Medicine leads the way in medical education and research. Under the leadership of a new Dean, we are in the midst of substantial growth in all of our research and core facilities. This provides unique opportunities for dedicated professionals in the following areas:

Mount Sinai

Lipoprotein Research

The Zena and Michael A. Wiener Cardiovascular Institute at Mount Sinai School of Medicine has received new funding from industry and NIH for projects in lipoprotein metabolism, atherosclerosis, and vascular biology to be conducted under the supervision of Dr. Edward A. Fisher, Director of Lipoprotein Research. These projects require postdoctoral fellows having

recent training in biochemistry, cell biology, or molecular biology. Please forward letter of interest and CV, to: Dr. Fisher, Box 1030. E-mail: edmd-phd_fisher@smtplink.mssm.edu

Biochemistry/X-ray Crystallography Research

These postdoctoral positions will study protein-nucleic acid interaction amongst endonucleases, transcriptions factors, and RNA binding proteins. Highly motivated candidates with strong background in either biochemistry or protein crystallography are encouraged to apply.

The laboratory is equipped with state-of-the-art facilities including several imaging plate area detectors and excellent protein expression and analysis capabilities. Please forward CV, including the names of three references, to: Dr. Aneel Aggarwal, Box 1677, Department of Physiology and Biophysics. Fax: (212) 849-2456.

Prostate Cancer Research

This postdoctoral position is will study the biology and molecular mechanism of hormone resistance of prostate cancer with the aim of testing treatment strategies for translation into clinical trials. Candidates must have background knowledge of cancer biology. Documented experience in tissue culture, as well as molecular and cell biology techniques are essential. Please forward CV to: Dr. Anna C. Ferrari, Box 1129, Division of Neoplastic Diseases. Fax: 212.423-9458.

We offer competitive salaries and excellent benefits. Please forward CV, to the appropriate contact, or mail, indicating the position of interest and box number, to: **Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574**. We are an equal opportunity employer fostering diversity in the workplace.

Mount Sinai School of Medicine

Grants



Plasma Science GIAR Fund Established

The Consortium for Plasma Science has established a special fund within Sigma Xi's Grants-in-Aid of Research program to advance the safety of the world's blood supply through research and development of methods to inactivate non-enveloped viruses and prions in human blood.

Up to five Sigma Xi-Consortium for Plasma Science Research Grants will be awarded annually, of up to \$5,000 each, to graduate students and postdoctoral associates.

Proposals should focus on "innovative research activities involving scaleable methods and technologies for universal inactivation of non-enveloped viruses and prions from human blood plasma and plasma derivatives, with particular emphasis on the recovery of biofunctionality of the treated plasma."

These may include novel approaches to the inactivation of non-enveloped viruses and prions, resultant effects of inactivation processes on primary plasma proteins (e.g., albumin, immunoglobulins, fibrinogen, other clotting factors, etc.) and reference standards for non-enveloped viruses or prions. Other appropriate activities may include detection methodologies for non-enveloped viruses or prions and validation assessment of inactivation processes.

Some proposals may only address the extent of retained functionality of treated plasma in experiments designed to inactivate or remove pathogens, but may be performed in the absence of viral load.

For an application form and further guidelines, visit the Sigma Xi site on the Web at www.sigmaxi.org or contact the grants program at 800-243-6534 or by e-mail at giar@sigmaxi.org.

BS/MS Level Scientists: High Throughput Screening

Join a group on the forefront of technology development. We are currently seeking scientists to develop new technologies which will accelerate the pace of drug discovery.

Candidates will participate in technology development for high throughput screening of combinatorial and discrete compound libraries. Previous work with signal transduction pathway proteins, kinases, or cell-based assays is a plus. BS/MS degree or equivalent required. Experience in high throughput screening, assay automation, micro liquid handling, or low light imaging highly desirable.

DuPont Pharmaceuticals Company offers a competitive salary and a generous benefits package including 401K plan as well as excellent working conditions, and challenging assignments. Please send a letter of introduction and resume, to: Human Resources-KO, DuPont Pharmaceuticals Company, Experimental Station, 400/2413, P.O. Box 80400, Wilmington, DE 19880-0400.

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U.S. Department of Agriculture (USDA) Agricultural Research Service (ARS) RESEARCH LEADER/ BIOLOGIST

National Center for Cool and Cold Water Aquaculture

USDA Agricultural Research Service is seeking a Supervisory Research Biologist with a background in aquaculture to be Research Leader of the National Center for Cool and Cold Water Aquaculture in Leetown, West Virginia. This unique National facility is co-located with the Leetown Science Center of the U.S. Geological Survey. The successful candidate will be responsible for conducting and administering basic and applied research that meets the needs of the Center's Mission to support and enhance the Nation's cool and cold water aquaculture production. The incumbent will also serve as Research Program Representative during the design and construction of the Center with a program of applied genetics and breeding, fish health, physiology and nutrition culture and production management, aquaculture engineering, and product quality of cool and cold water species including, but not limited to, rainbow trout, Arctic Char, salmon, and hybrid striped bass. Experience in leading a diverse program related to aquaculture production, protection, and breeding is preferred. A Ph.D. is desirable and research qualifications are determinant in the salary range of GS-14: \$66,138 to \$85,928; GS-15: \$77,798 to \$90,767.

Candidate must be a U.S. citizen. For additional information on the position contact Wilda Martinez at 215-233-6593 or email at wmartinez@ars.usda.gov. Applicants must review the vacancy announcement prior to application submittal. See Website: www.ars.usda.gov/afm/hrd/resjobs. For application information/instructions contact Maryanne Cage at 304-725-3451, Extension 332.

Applications must be postmarked by October 15, 1998.

USDA/ARS is an Equal Opportunity Employer. Women and minorities are encouraged to apply.



POSTDOCTORAL POSITIONS IN MOLECULAR NEUROSCIENCE

Two postdoctoral positions are available in the Department of Developmental Neurobiology at St. Jude Children's Research Hospital.

- 1. Dr. Michisuke Yuzaki's laboratory studies the role of excitatory amino acid receptors in the function of the nervous system using a combination of electrophysiological and molecular biological techniques. Candidates should be interested in patch-clamp techniques and molecular biology.
- 2. Dr. Jian Zuo's laboratory studies mouse models for neurodegenerative diseases. Candidates should be interested in the generation and analysis of transgenic/knockout mouse strains, and the mapping and cloning of mutant mouse genes.
- St. Jude Children's Research Hospital provides a state-of-theart research environment including new laboratories and core facilities for molecular biology, peptide and protein chemistry, genomics, and transgenic/knockout technology. The Danny Thomas Research Tower houses approximately 300 doctorallevel scientists who provide a rich and interactive scientific environment. The Department of Developmental Neurobiology is dedicated to the studies of fundamental questions in contemporary neurobiology. In addition to Drs. Michisuke Yuzaki and Jian Zuo, the department currently comprises a strong, collaborative group of molecular neuroscientists: Dr. Tom Curran (analysis of gene regulation; gene function during neurodevelopment), Dr. James Morgan (molecular basis of neurodegeneration and regeneration; stimulus-transcription coupling in the nervous system), Dr. Richard Smeyne (genetics of neurodegeneration in Parkinson's disease; role of nerve growth factors in neuronal development), Dr. Suzanne Baker (molecular basis of carcinogenesis in Ewings sarcoma and pediatric brain tumors), Dr. Cornelia Kurschner (neuronal PDZ domain proteins and their role in synapse formation).

Interested candidates should visit our web site for detailed information: www.stjude.org/departments/d-devneuro.htm. Please send a C.V. and three letters of recommendation to: Michisuke Yuzaki, M.D., Ph.D. or Jian Zuo, Ph.D., Dept. of Developmental Neurobiology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105. AA/EOE



National Cancer Institute
National Institutes of Health

Assistant Director for Technology Program Development

CA-98-1960

Opening Date: August 17, 1998 Closing Date: September 30, 1998

The National Cancer Institute (NCI) seeks an Assistant Director for Technology Program Development in the Office of Technology and Industrial Relations within the Office of the Deputy Director for Extramural Science. The National Cancer Institute is the foundation of the nation's investment in cancer research, supporting research into the biology of cancer, factors in cancer risk, prevention strategies, new approaches to detection and diagnosis, novel therapeutics, and rehabilitation.

The Assistant Director will play a critical role in identifying new approaches and opportunities for the support of technology development to enable cancer research. The Assistant Director will have the opportunity to gain expertise related to areas of technology need that span the Institute's mission, and work closely with existing NCI programs in establishing programs that will support new technologies critical to NCI's mission. Responsibilities will include coordinating the implementation of trans-institute technology initiatives, identifying and implementing solutions to issues related to the support of technology development at the NCI, and serving as a focal point to the extramural research community on technology development opportunities at the National Cancer Institute. The Assistant Director will have the opportunity to represent the technology priorities and initiatives of the National Cancer Institute to the cancer research community, as well as engage in outreach to technology developers in other disciplines and other government programs. This position requires outstanding communication and negotiation skills, as well as enthusiasm for diverse technology areas.

SALARY RANGE AND BENEFITS: Salary ranges from \$66,138 - \$101,142 per annum. Benefits include health and life insurance, retirement, paid holidays, vacation and sick leave. Salary quoted included locality pay.

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" 1875. 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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The Middle East Desalination Research Center seeks qualified candidates for the position of:

Center Director

Established as an independent international research institution with its headquarters in Muscat, Sultanate of Oman, the Center was created in 1996 as a direct result of an initiative conceived in the context of the Multilateral Working Group on Water Resources of the Middle East Peace Process. The Center's mission is to conduct, facilitate, coordinate, and support state-of-the-art basic and applied research, including training and educational programs in desalination and related areas, with special emphasis on the needs of the Middle East region. The Center has been established with initial capital contributions from its founding members of US\$15.0 million.

The Center Director maintains the day-to-day operations of the Center, supervises the professional and administrative staff, and is responsible for implementing the policies and procedures as established by the Executive Council. The Council is composed of representatives of the founding members of the Center, the Governments of the United States, Oman, Japan, Israel, and the Republic of Korea. The Commission of the European Union enjoys invited observer status and is expected to join as a Founding Member.

The Center has established itself as an important new international institution with a high profile in the region and the research community worldwide and the new Center Director will be expected to build on this foundation and to further the momentum of institutional development to realize a financially self-sustaining entity. The Center is committed to the highest standards in information technology and has its homepage at: http://www.medrc.org.om.

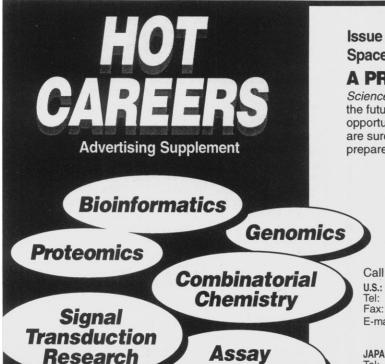
Qualified applicants will have the following credentials:

- · Direct experience in management and/or institutional development in a developing country context.
- Bachelor's degree and an advanced degree in public administration, public management, and/or related disciplines.
- Proven leadership skills for supervising staff as well as motivating donor support and networking with other international organizations and institutions.
- Excellent verbal and written skills in English. Proficiency in language(s) of the Middle East region will be an asset
- Basic knowledge of water treatment research and/or process engineering will be an advantage.

Salary will be commensurate with experience and qualifications. A generous benefits and relocation package will be provided. Suitably qualified candidates should send their CV and a detailed salary history in confidence by September 20, 1998, to the attention of CD Search via mail to: P.O. Box 21 Al-Khuwair, PC 133, Oman; via courier to: Way 2840, Villa 2985, Shati Al-Qurum, Muscat, Oman, tel (968) 695-351; or via fax to (968) 697-107.

Postdoctoral Fellow The Pulmonary-Critical Care Medicine Branch (P-CCMB) National Heart, Lung, & Blood Institute, NIH

Postdoctoral research fellowship positions are available for individuals interested in cell and molecular biology, as well as bench-to-bedside translational research. Opportunities for postdoctoral research fellowships exist within intramural P-CCMB laboratories investigating clinical and basic research relating to signal transduction, nitric oxide, G proteins, protein modification, vesicular trafficking, and cyclic nucleotide phosphodiesterases. Positions are available for a minimum of 2 years and may be extended for additional training. Candidates should possess a Ph.D. or M.D. degree or equivalent. Positions are available immediately. Interested individuals should submit a letter of interest, curriculum vitae, and three letters of recommendation to: Joel Moss. M.D., Ph.D., Chief, Pulmonary-Critical Care Medicine Branch, NHLBI, NIH, Building 10, Room 6D03, MSC 1590, Bethesda, MD 20892-1590. NIH IS AN EQUAL EMPLOYMENT OPPOR-TUNITY EMPLOYER.



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Medical Informatics Training

Lister Hill National Center for Biomedical Communications **National Library of Medicine (NLM)**

The Medical Informatics Training Program at the Lister Hill National Center for Biomedical Communications provides opportunities for students and visiting scientists to participate in collaborative research in a variety of areas of medical informatics. Research participation at the Center for postdoctoral fellows, graduate and medical students, college students, and visiting faculty can range from a few months to one or more years. Current activities of the Center include:

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The NLM is one of the National Institutes of Health, the government's primary agency for support and conduct of biomedical research. More details can be seen at our Web site at

http://lhncbc.nlm.nih.gov

If you are interested in one of our training programs, contact: May Cheh; National Library of Medicine; 8600 Rockville Pike, Mail Stop 54; Bethesda, MD 20894-6075 (Email: cheh@nlm.nih.gov)

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University of Alberta Edmonton

Chair in Fisheries and Wildlife

Alberta Conservation Association

The Department of Biological Sciences in the Faculty of Science invites applications for the Alberta Conservation Association Chair in Fisheries and Wildlife.

Candidates must have an outstanding internationally recognized record of achievement in research in some aspect of fisheries and/or wildlife biology. The Chairholder will be expected to provide leadership for a major research and teaching program in applied fisheries and wildlife biology, in support of the goals of the Alberta Conservation Association for a longterm sustainable resource in Alberta. The program will be diverse but will include examination of the ecological and socio-economic role of consumptive use of natural resources as a fisheries and wildlife management tool.

Appointment will be at the level of Full Professor, adding to our already strong ecology and environmental biology research groups. The effective date of employment will be January 1, 1999 or as soon as possible thereafter.

Candidates should forward a curriculum vitae, list of publications, a brief statement of research interests and the names of three referees to:

Dr. S.E. Jensen, Chair **Department of Biological Sciences** CW 405 Biological Sciences Building University of Alberta Edmonton, Alberta, Canada T6G 2E9 E-mail: susan.jensen@ualberta.ca For additional information about the Department see: www.biology.ualberta.ca

Closing Date: October 15, 1998

The University of Alberta is committed to the principle of equity in employment. As an employer, we welcome diversity in the workplace and encourage applications from all qualified women and men, including Aboriginal peoples, persons with disabilities, and members of visible minorities.

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The preliminary 1999 Summer GRC program will appear in the November 27, 1998 issue of *SCIENCE*

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http://www.grc.uri.edu

or request information by Fax at 401-783-7644

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Three openings exist for senior scientists in preclinical studies. Ideal candidates will have the experience and drive to take the lead in the design, implementation and interpretation of preclinical pharmacokinetic, pharmacodynamic, and safety studies for their specific projects. For in-house studies, will supervise one or more direct reports and oversee the animal support staff assigned to assist in procedures. For contract studies, will be expected to negotiate contracts and serve as study moni-

direct reports and oversee the animal support staff assigned to assist in procedures. For contract studies, will be expected to negotiate contracts and serve as study monitors. Responsible for generating technical reports and summaries to support regulatory filings and for addressing preclinical issues raised by the FDA and other regulatory agencies. Will be looked to as preclinical experts by other members of multidisciplinary teams and will be expected to work closely with team members to meet corporate goals and objectives. All positions require a Ph.D. in Pharmacokinetics, Toxicology, or related scientific discipline and 5+ years' industrial experience. Candidates must have supervisory experience and good communication/interpersonal skills. Experience with IND, BLA, and other regulatory filings important. Job Code: PK-98-0460/1

SENIOR RESEARCH ASSOCIATE - STAFF SCIENTIST Gene Transfer Research As part of the non-viral Gene Transfer Research Group, design and test novel second generation non-viral gene delivery vehicles in vitro and in vivo for applications in cystic fibrosis and oncology. Requires 3 or more years of formulation experience or a Ph.D. with emphasis on formulation of non-viral gene therapy vectors. An in-depth understanding of cellular processes leading to uptake and expression of foreign genes is beneficial. Additional experience with animal models of cancer would be a major advantage. Must be a team player in a challenging, rapidly-evolving, multidisciplinary environment. Job Code: PK-98-0140

Qualified candidates should forward their resume, indicating job code, to: Genzyme Corporation, Human Resources Department, One Kendall Sq., Cambridge, MA 02139.

Genzyme uses optical scanning technology. Please use a 12 point font with minimal use of bullets, italics, underlining and bolding.

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Faculty Position in Environmental Risk Analysis at the Bren School, UC Santa Barbara

The Donald Bren School of Environmental Science & Management (http://www.bren.ucsb. edu/) invites applications for a tenure-track Assistant Professor position, starting July 1, 1999. We seek an interdisciplinary environmental scientist who conducts research in environmental risks that result from human activities, with a focus on the quantification of probabilities and expected consequences for biological communities, ecosystem processes, or society. Candidates must be able to teach graduatelevel courses in all aspects of environmental risk analysis: risk identification, estimation, evaluation and management. Research foci could include pollution, natural resource exploitation, climate change, land use and habitat conversion, or other areas.

Send applications to: Environmental Risk Search Committee, Donald Bren School of Environmental Science and Management, University of California, Santa Barbara, CA 93106; e-mail erisk@bren.ucsb.edu; fax (805)893-7612. The Ph.D. is normally required at the time of appointment. Applications must include a curriculum vitae, a statement of research interests and teaching philosophy, and copies of 3 refereed publications. Please arrange for 3 letters of reference to be sent in support of the application. For fullest consideration, we should receive all material by Dec 7, 1998, although the position will remain open until filled. The University of California is an Equal Opportunity/Affirmative Action Employer. We encourage all qualified applicants to apply, including minorities, women, and persons with disabilities.



TUFTS UNIVERSITY

Assistant/ Associate Professor

DEPARTMENT OF PHARMACOLOGY & EXPERIMENTAL THERAPEUTICS

The Department of Pharmacology and Experimental Therapeutics seeks to fill a position of Assistant or Associate Professor (tenure track). Areas of particular research interest include pharmacokinetics, drug metabolism, pharmacogenetics, neuropharmacology, and neuropeptides. Current and ongoing extramural research funding is required and teaching experience is highly desirable.

Candidates should send a curriculum vitae and statement of current research interests and support, together with names of three references, to: Richard I. Shader, M.D., Tufts University School of Medicine, 136 Harrison Avenue, Boston, MA 02111. AA/EOE

WE CAN SEE THE FUTURE OF LIFE SCIENCES.

The Perkin-Elmer Corporation and PerSeptive BioSystems are combining forces to accelerate the pace of drug discovery. This merger offers a complete line of systems designed for purification, analysis and synthesis for the Life Sciences. Leveraging its market leadership positions and core strengths in mass spectrometry, chromatography, informatics and life science applications, Perseptive Biosystems has been designated the Center of Excellence for Proteomics. These areas of expertise are key elements in the myriad of schemes put forth for analysis of Proteomes. Our goal is to develop integrated systems for these life science applications by combining basic research and development in instrumentation, chemistry and software. To support these exciting efforts in the development and implementation of cutting edge technologies for the post Genomics era, Perseptive Biosystems is recruiting several new members in a variety of disciplines and career levels, for positions within the mass spectrometry product line.

SENIOR SCIENTIST - R&D PROTEOMICS

The primary function is peptide/protein identification and characterization using MALDI and ESI TOF MS. Focus on automation of sample handling and data processing. Extensive knowledge of protein chemistry, databases and proficiency in writing software in VC++ and VBA. A Ph.D. with postdoctoral experience. **Position # DPSRS**

SCIENTIST – R&D PROTEOMICS

Protein/peptide characterization and identification using MALDI and ESI TOF MS focusing on development of high throughput protocols. Experience with HPLC, 2D gels, database searching and a proficiency in software, preferably VC++ and VBA desired. A BS/MS with 4 yrs'. Experience. **Position # DPJRS**

SENIOR SCIENTIST - R&D TOF TECHNOLOGIES

Participate in the development of novel TOF technology for both MALDI and ESI. A strong background in instrumentation development and a commitment to apply this technology to life science applications required. A Ph.D. in a relevant area of Physics or Chemistry with post doctoral/industrial experience. Position #MVS

SOFTWARE ENGINEERS – R&D

Several successful candidates will be involved in the design, development and implementation of software for mass spectrometer and peripheral instrument control, pre/post acquisition data processing and BioInformatics based on Microsoft Windows NT. Experience with Microsoft Visual C++, MFC class libraries, Active X and COM required. A BS (or higher) in Computer Science, Physical or Chemical Sciences. **Position #JZDPWH**

SCIENTISTS - APPLICATIONS LABS

To provide application support for sales of mass spectrometry equipment by doing instrument demonstrations, analyzing biological samples, developing new applications. Experience of 1-5 yrs' with mass spectrometry (Maldi or electrospray) with BS to PhD in biochemistry or closely related field is required. Positions #KWEC (Framingham)#KWWC(Foster City,CA)

APPLICATIONS PRODUCT MANAGER - MARKETING

Responsible for mass spectrometry automation and software products worldwide. Develop and execute marketing plans and strategies to assist the program in meeting its financial objectives. A BS in Analytical Chemistry, Engineering or Biochemistry with prior technical product marketing experience. **Position # BMAPM**

SCIENTIST

The successful candidate will work to develop biochemical assays(enzyme-substrate, receptor-ligand, or protein-protein interaction) to be used as a technique for the primary screening of drug candidates. The work includes optimizing assay conditions, preparing dose response curves and increasing assay sensitivity and throughput. Additionally, the focus will be: to translate assay systems into a capillary electrophoresis format. A Ph.D. Degree in Biochemistry, Chemistry or equivalent experience is required. At least five years' experience in a research or assay development environment is highly desired. Experience with Capillary Electrophoresis, microfluidic systems and project management a plus. Position # JHXZ

Unless noted, all positions are located at our Framingham, MA Center of Excellence, 30 minutes west of Boston. Working in an environment that is refreshingly innovative, you'll have more opportunity to expand your skills and career. PerSeptive Biosystems Inc. offers a highly competitive salary and benefit package. For more information please visit our web site at www.pbio.com Please send your resume indicating position #, to: Human Resources, PerSeptive Biosystems Inc., 500 Old Connecticut Path, Framingham, MA 01701; Fax (508) 383-7833; Email: smithmq@pbio.com. We are an Equal Opportunity Employer actively pursuing diversity in the workplace.



BIOCHEMISTRY TENURE-TRACK FACULTY POSITION

The Chemistry Department of the U.S. Naval Academy invites applications for a tenure-track position in biochemistry at the ASSISTANT PROFESSOR level to begin August 1999. The Department consists of 32 full-time faculty members, is equipped with a wide array of modern instrumentation and computer facilities, and supports an ACS-approved undergraduate program. The successful candidate must be strongly committed to teaching at an undergraduate level and will be expected to teach both general chemistry and biochemistry. The successful candidate will also be expected to develop and maintain a vigorous research effort. Send curriculum vitae, statement of teaching philosophy, concise description of research interests, and arrange for three letters of recommendation (at least one of which addresses teaching) to be sent by October 15, 1998, to: Search Committee, Chemistry Department, U.S. Naval Academy, 572 Holloway Road, Annapolis, MD 21402-5026. The U.S. Naval Academy & committed to identifying minority persons and women with the appropriate qualifications, and is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN CHEMISTRY DEPARTMENT OF CHEMISTRY University of California at Berkeley

The Chemistry Department at the University of California at Berkeley solicits applications for a faculty position as ASSISTANT PROFESSOR of chemistry or PROFESSOR of chemistry or PROFESSOR of chemistry, beginning July 1, 1999. Creative and energetic candidates who show exceptional promise or accomplishment in research and teaching are specifically sought in the fields of biophysical, bioanalytical, materials, or synthetic chemistry, although truly outstanding candidates in any area of chemistry will be considered. Appointment may be at the junior or senior level, according to the qualifications of the candidate. Applicants should send a curriculum vitae and a proposed research program, and arrange to have three letters of recommendation sent to: Chair, Faculty Recruiting Committee (#13), Department of Chemistry, University of California, Berkeley, CA 94720-1460. The deadline for receipt of applications is October 15, 1998; applications will be reviewed beginning September 1, 1998. The University of California is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION STRUCTURAL BIOLOGY/BIOCHEMISTRY

Montana State University invites applicants for a tenure-track position in structural biology. The successful candidate will have experience solving macromolecular structures using X-ray crystallography; ability to establish a nationally competitive research program; doctoral degree in a relevant discipline; and promise of excellence in teaching biochemistry/structural biology. Appointment at the ASSISTANT PROFESSOR level is anticipated; exceptional candidates at higher levels will be considered. See website: www.montana.edu/msuinfo/jobs/faculty for a complete position description. Review begins on October 5, 1998. Submit a letter of application, curriculum vitae, brief descriptions of research plans and teaching interests, and arrange for three letters of reference to be sent to: Structural Biology Search Committee, Department of Chemistry and Biochemistry, Montana State University, Bozeman, MT 59717. ADA/Equal Opportunity/Affinnative Action/Veterans Preference.

ASSISTANT PROFESSOR NUCLEIC ACID BIOCHEMISTRY

The Department of Chemistry, California State University, Northridge, invites applications for a tenure-track position in biochemistry. Effective August 1999. The successful candidate will have teaching responsibilities in biochemistry and lower-level chemistry courses, and will be expected to develop a research program in nucleic acid biochemistry involving undergraduate and M.S. students. Preference will be given to candidates with a strong chemistry background and postdoctoral experience. Send a curriculum vitae, brief description of research plans, and three letters of reference to: Dr. Sandor Reichman, Chair, Department of Chemistry, California State University, Northridge, CA 91330-8262. E-mail (inquiries only): sandor.reichman@csun.edu. Applications must be received by November 15, 1998. California State University, Northridge is an Equal Opportunity Employer committed to excellence through diversity.

POSITIONS OPEN

FACULTY POSITION PHYSIOLOGY/ANATOMY AMERICAN UNIVERSITY Department of Biology Fall, 1999

The Department of Biology invites applications for a tenure-track position at the ASSISTANT PROFESSOR level to begin fall 1999. We are searching for a broadly trained VERTEBRATE PHYSIOLOGIST/ANATOMIST with research expertise in the area of neurobiology. A Ph.D., postdoctoral experience, and evidence of strong teaching skills are required. The successful applicant will establish and maintain an active research program involving undergraduate and Master's-level graduate students and provide departmental and university service. Major teaching responsibilities will be vertebrate physiology, ver tebrate anatomy, at least one course in the successful candidate's area of expertise, and teaching in the general education curriculum. The application deadline is October 30, 1998. Send curriculum vitae, statements of teaching philosophy and research interests, and arrange to have three letters sent directly from referees to: Office of Human Resources, Attn: Tenure-Track Biology Search, American University, Washington, D.C. 20016-8054. Position is subject to budgetary approval. American University is an Affirmative Action/Equal Opportunity University, committed to serving diverse faculty, staff, and student body. Women and minority candidates are strongly encouraged to apply.

FACULTY POSITIONS IN MICROBIOLOGY AND INVERTEBRATE ZOOLOGY

Two tenure-track positions at the ASSISTANT PRO-FESSOR level beginning August 1999. Candidates must be broadly trained, possess a Ph.D., have a commitment to teaching undergraduates, and the potential to develop a research program involving significant student participation. (i) The Microbiologist must have nonclinical research interests, and demonstrated expertise in molecular biology. Responsibilities include teaching courses in microbiology, molecular biology, participating in the introductory biology program, and academic advising. (ii) The Invertebrate Zoologist may have research interests in the behavior, ecology, and/or evolution of invertebrates. Expertise in both field methods and modern laboratory techniques is preferred. Responsibilities include participating in an introductory evolutionary biology course, teaching advanced courses in areas of specialty, and academic advising. Applicants for each position should send curriculum vitae, summary of teaching and research interests, and names and telephone numbers of three references to: Prof. Thomas Koppenheffer, Chair, Department of Biology, Trinity University, San Antonio, TX 78212. Application deadline is October 5, 1998. Women and minority candidates are strongly encouraged to apply. Trinity University is an Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF MASSACHUSETTS, AMHERST PLANT MOLECULAR EVOLUTION

The Biology Department (website: http://www.bio.umass.edu/biology) and the Plant Biology Graduate Program are reopening the search for a tenure-track position in the area of plant evolutionary processes. Candidates, who should have postdoctoral experience, are expected to contribute to undergraduate and graduate teaching and develop a vigorous, externally funded research program. This second position in molecular evolution, and the recent acquisition of DNA sequencing facilities, reflects the Department's commitment in this area. Please submit curriculum vitae, a brief statement of research and teaching interests, and three letters of reference to: S. Capistran, Plant Biology Program Manager, Plant Evolution Search, Department of Biology, University of Massachusetts, Amherst, MA 01003-5810. E-mail: capistran@bio.umass.edu. Reviews of applications will begin on October 15, 1998, and continue until the position is filled.

The University of Massachusetts is an Equal Opportunity Employer.

POSITIONS OPEN

PHYSIOLOGICAL PLANT ECOLOGY AND INVERTEBRATE BIOLOGY

The Biology Department at Gustavus Adolphus College invites applications for two tenure-track ASSIST-ANT PROFESSOR positions starting late August 1999. A Ph.D. is required; demonstrated teaching ability and postdoctoral research experience are desirable.

Physiological Plant Ecologist (search reopened): teaching responsibilities will include (1) team-teaching the ecology and evolution portions of an introductory biology course and a mid-level ecology, evolution, and behavior course; (2) teaching an upper-level general ecology course; (3) developing an upper-level ecological/plant physiology course; and (4) regular January term offerings of choice.

Invertebrate Biologist: teaching responsibilities will include (1) teaching a mid-level invertebrate zoology course and an upper-level evolution course; (2) developing an upper-level course in entomology or specialty; (3) team-teaching the animal portion of an introductory organismal biology course; and (4) regular January term offerings of choice. Experience with freshwater systems desirable.

The successful candidates will be expected to develop active research programs involving undergraduates and also to secure extramural funding. The Biology Department contains new and renovated facilities to support both teaching and research endeavors, including a greenhouse with dedicated research and teaching modules, four Conviron growth chambers, physiological ecology instrumentation, image analysis capabilities, large insect collection, and GIS. The college offers an interdisciplinary major in environmental studies in which participation is encouraged. Candidates should submit a letter of application stating qualifications, a statement of teaching philosophy and research interests, curriculum vitae, undergraduate and graduate transcripts (photocopies acceptable), and three letters of recommendation to: Colleen Jacks, Chair, Biology Department, Gustavus Adolphus College, 800 West College Avenue, St. Peter, MN 56082. Application review begins October 9, 1998, (Invertebrate Biologist) and October 23, 1998, (Invertebrate Biologist) and continues until the positions are filled.

Biologist) and continues until the positions are filled.

Gustavus Adolphus College is a highly selective liberal arts school located 75 miles south of Minneapolis/St.

Paul. It is the policy and practice of Gustavus Adolphus College to provide Equal Educational and Employment Opportunity for all.

We specifically encourage applications from women, minorities, and persons with disability.

The Chemistry Department of Wesleyan University invites applications for a tenure-track faculty position in experimental organic chemistry with a synthetic component at the ASSISTANT PROFESSOR level, effective September 1999. The successful candidate will exhibit potential for excellence in teaching (undergraduate and graduate level) and will be expected to establish an externally funded research program. The Chemistry Department is well equipped and has an active Ph.D. program involving 12 full-time faculty and 35 graduate students and Postdoctoral Associates. Salary, fringe benefits, and start-up funds will be competitive. Interested candidates should submit a curriculum vitae and a description of research plans and teaching interests, and arrange to have three letters of recommendation sent to: The Chair of the Organic Search Committee, Department of Chemistry, Wesleyan University, Middletown, CT 06459. Review of applications will begin on November 1, 1998, and continue until the position is filled. Wesleyan University is an Equal Opportunity/Affirmative Action Employer and actively seeks applications from women and university candidates.

Behavioral ecology/animal behavior. The Zoology Department at The University of Texas at Austin invites applications for a tenure-track faculty position at the level of ASSISTANT PROFESSOR in the area of behavioral ecology/animal behavior. We are especially interested in researchers studying functions, mechanisms, or evolution of ecologically relevant behavior in natural populations. Duties also include graduate and undergraduate teaching. The successful candidate must have a Ph.D. or equivalent degree. Applicants should send a curriculum vitae, statement of teaching and research interests emphasizing past accomplishments and future goals, a small number of relevant publications, and have three letters of recommendation sent to: Dr. Klaus Kalthoff, Behavioral Ecology Search Committee, Department of Zoology, University of Texas, Austin, TX 78712. The deadling for application is 15 October 1998. The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.

AWARD

The Rockefeller Foundation AFRICA DISSERTATION INTERNSHIP AWARDS



Doctoral students from sub-Saharan Africa are invited to apply for dissertation research support. The program enables Ph.D. students enrolled for a degree from U.S. and Canadian universities to return to Africa for extensive research involving field observation or the use of primary sources available only in Africa. Priority is given to research on equitable development in the fields of agriculture, environment, education, health, the life sciences, population, and the humanities. The maximum award is \$20,000. Deadlines for applications are October 1, 1998 and March 1, 1999.

Under the auspices of the African Development Dissertation Workshop Program, African doctoral students are invited to apply to dissertation workshops, which enable participants to engage in intensive discussion of each other's projects and issues common to conducting field research in Africa. Deadlines vary by host institution for workshops to be held February - June, 1999.

African scholars who have received support from Rockefeller Foundation programs are invited to apply for African Sustainable Development Career Awards. Other African scholars, who received a Ph.D. from an overseas university, may also be considered. All applicants must have been awarded the Ph.D. degree no more than five years prior to application and must have returned to Africa.

For a full description of the application requirements, please write to: Africa Dissertation Internship Awards, The Rockefeller Foundation, 420 Fifth Avenue, New York, NY 10018. Additional information can be found on the web at http://www.rockfound.org. Choose "The Programs," then "African Initiatives."

GLOBAL OPPORTUNITIES



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We invite suitably qualified candidates to join us as:

RESEARCH SCIENTIST

You will be involved in molecular biology research to develop gene therapy for gliomas.

You should have a PhD or equivalent. Familiarity with relevant molecular biologic techniques, capability to work independently and relevant background are essential.

The successful candidate can expect a competitive salary which will commensurate with qualifications and experience, in addition to an attractive benefits package such as vacation leave, yearly bonus as well as medical and insurance coverage.

Applications stating full personal particulars, educational qualifications, career history, present and expected solary with at least three professional references, a non-returnable photograph and contact or fax number should be addressed or faxed to

The Manager, Employee Relations Singapore General Hospital Block 6, Level 1, Outram Road, Singapore 169608 Fax No: 65-2242671. E-mail: gpetgh@sgh.govsg

Closing date for applications, 18 September 1998

A TRADITION OF CARING AND EXCELLENCE

GLOBAL OPPORTUNITIES



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THE UNIVERSITY OF HONG KONG

As the most established tertiary education institution in Hong Kong, the University of Hong Kong has attained unparalleled achievements since 1911 in Hong Kong and the region by drawing on the great cultural traditions of China and the West. In recent years the University has emerged as a major research institution with nine faculties, a School of Business and more than 100 departments and sub-divisions of studies and learning. There is currently an enrolment of more than 15,000 students, full-time and part-time, of which 4,000 are at post-graduate level. Overseas students from more than 40 countries are attracted to HKU to pursue the research degrees of PhD and MPhil. English is the language of instruction at HKU.

Our firm commitment to research excellence and internationalisation has established the University as one of the top research universities in the Region. We are committed to our vision of globalisation and enhancing our research excellence.

Professor: Chair of Anatomy

Applications are invited for appointment as Professor: Chair of Anatomy (Ref: RF-98/99-10), tenable from 1 September 1999. Appointment will initially be made on a two to three-year fixed-term basis, with a possibility of renewal.

The Anatomy Department is a full member of the Faculty of Medicine and with commitments also to the teaching of students in the Faculty of Dentistry. The mission of the department is to provide an excellent learning environment for both undergraduate and graduate students and to become an undisputed centre of excellence in the science of morphology. The department has excellent research facilities for all forms of microscopic work including light and EM, immunohistochemistry and in situ hybridisation study, image analysis and laser confocal microscopy, tissue culture and flow cytometry, as well as equipment for molecular biology work. The department currently has 11 faculty members, 1 research fellow, 4 postdoctoral fellows and 35 post-graduate students working on four major research areas, i.e. cell and cancer biology, neurobiology, functional morphology and biomechanics and reproductive biology. Research methodology ranges from morphological and image analysing approaches to the extensive use of state-of-the-art cellular and molecular biological tools. The successful applicant should have a distinguished international reputation in at least one of the areas with extensive experience in established morphological and newly emerging cellular and molecular biological approaches. Record of multi-disciplinary collaboration is an asset. He/she is also expected to provide academic leadership in research and the teaching of anatomy in the new system-based, PBL-driven, curricula to medical and dental students; as well as nursing students. Prior management experience would be an advantage.

The University reserves the right not to fill the post or to fill the post by invitation or to make an appointment at a lower level.

Annual salary [attracting 15% (taxable) terminal gratuity] will be within the professorial range, which is not less than HK\$1.5M (approx. \$119,208; sterling equivalent as at 14 August 1998) with starting salary depending on qualifications and experience. At current rates, salaries tax will not exceed 15% of gross income. Attractive benefits package (comprising housing, leave, passage, medical and dental benefits and children's local education allowances) will be offered to the successful candidate.

Further particulars and application forms can be obtained on WWW at http://www.hku.hk/apptunit/; or from the Appointments Unit, Registry, The University of Hong Kong, Hong Kong (Fax: (852) 2540 6735 or 2559 2058; E-mail: apptunit@reg.hku.hk). Closing date: 31 October 1998.

The University is an equal opportunity employer and is working towards a smoke-free environment.

ASSISTANT/ASSOCIATE PROFESSOR MOLECULAR BIOLOGY/ MOLECULAR GENETICS Medical College of Wisconsin

Applications are invited for a tenure-track faculty position in the Department of Biochemistry of The Medical College of Wisconsin at the Assistant or Associate Professor level for an individual using molecular/genetic approaches to study the regulation of gene expression, signal transduction, cell transformation, or other areas of contemporary cell biology/biochemistry. We are particularly interested in individuals whose research interests complement ongoing institutional thematic areas of cancer, human genetics, and cardiovascular disease although strong applicants in other areas will be considered. The Department offers a highly competitive salary, a generous start-up package, an active graduate program with institutional support for students, and an interactive, wellfunded faculty having established strengths in cell regulation and macromolecular structure/function. Additional information about the Department and the Medical College can be viewed at website: www.biochem.mcw.edu. The successful candidate is expected to participate in the Department's graduate and medical education programs as well as to establish and maintain an extramurally funded independent research group. Applicants at the Associate Professor level are expected to have demonstrated a record of sustained funding and productivity.

Consideration of applications will begin 1 October 1998 and will continue until the position is filled. The successful candidate is expected to begin 1 July 1999 or shortly thereafter. Interested individuals should send curriculum vitae, representative recent reprints, a statement of research interests, and the names of three references to:

Faculty Search Committee Department of Biochemistry Medical College of Wisconsin 8701 Watertown Plank Road Milwaukee, WI 53226-0509

Affirmative Action/Equal Opportunity Employer

FACULTY POSITIONS BEHAVIORAL NEUROSCIENCE DEPARTMENT OF PSYCHOLOGY University of Washington

Two tenure-track faculty positions at the ASSISTANT PROFESSOR level. Successful candidates will be expected to employ a range of modern neuroscience techniques and integrate neural and behavioral approaches. Areas of particular interest include, but are not limited to, learning and memory, neuroethology, plasticity, and sensory systems. Applicants must have a strong record of published research and will be expected to participate actively in undergraduate and graduate teaching. Ph.D. is required by date of appointment. To apply, send a complete curriculum vitae, statement of research and teaching interests, three to five reprints, and arrange to have three letters of recommendation sent to: Behavioral Neuroscience Search Committee, Department of Psychology, University of Washington, Box 351525, Seattle, WA 98195-1525. Priority will be given to applications received before December 1, 1998. The University of Washington is building a culturally diverse faculty and strongly encourages applications from women and minority candidates. The University is an Equal Opportunity Affirmative Action Employer.

ASSISTANT PROFESSOR DEPARTMENT OF BIOLOGICAL SCIENCES STANFORD UNIVERSITY

The Department of Biological Sciences invites applicants for the tenure-track position of Assistant Professor in the area of evolutionary biology at the molecular level. Research areas could include but are not limited to comparative genomics and the interface between evolution and development. Applicants should submit prior to October 1, 1998, a curriculum vitae (include e-mail address and FAX number); a concise (two to three pages) description of research experience and interests; and the names, addresses, FAX and telephone numbers, and e-mail addresses of three individuals willing to write letters of recommendation to:

Chair of Molecular Evolution Search Committee Department of Biological Sciences Stanford University Stanford, CA 94305-5020

Stanford University is committed to increasing representation of women and members of minority groups on its faculty and encourages applications from such candidates.

POSITIONS OPEN

VIROLOGIST, ASSISTANT/ASSOCIATE PROFESSOR. Tenure-track position. Applicants must have a Ph.D. degree with relevant postdoctoral experience and demonstrated research achievement. Applicants at the Assistant Professor level will be judged on their potential to develop a vigorous independent research program that can attract extramural funding. Applicants to be considered for Associate Professor must have a significant publication record and extramural funding. Candidates will also be expected to teach medical and graduate students and direct dissertation research. The position offers excellent opportunities to interact with other Virologists as well as researchers at the Karmanos Cancer Institute and Center for Molecular Medicine and Genetics. An attractive start-up package will be available. Submit curriculum vitae, statement of research interests, and a list of three references to:

Dr. Paul C. Montgomery, Professor and Chair Department of Immunology and Microbiology Wayne State University School of Medicine 540 East Canfield Avenue Detroit, MI 48201

Wayne State University is an Equal Opportunity/Affirmative Action Employer. Minority and female candidates are encouraged to apply. All buildings, structures, and vehicles at WSU are smokefree. Wayne State University—people working together to provide quality service.

FACULTY POSITION UNIVERSITY OF OREGON BIOPHYSICS AND MOLECULAR BIOLOGY

The Physics Department and the Institute of Molecular Biology at the University of Oregon seek a tenure-track faculty member in biophysics. The successful candidate will have a Ph.D. in physics, biophysics, or related area and will be expected to teach physics and biophysics at the undergraduate and graduate levels. Possible research interests include, but are not limited to, single molecule biophysics, structural biology, atomic force microscopy, macromolecular assemblies, and membrane biophysics. We anticipate filling this position at the ASSISTANT PROFESSOR level, although more senior candidates will be considered.

Candidates should send a curriculum vitae, a statement of research interests, and the names and addresses of three referees. They should arrange for letters of reference to be forwarded directly by the referees. Correspondence should be sent to:

Professor Brian W. Matthews, Chair Biophysics Search Committee Institute of Molecular Biology 1229 University of Oregon Eugene, OR 97403-1229.

To guarantee full consideration applications should be received by November 15, 1998. The University of Oregon is an Equal Opportunity/Affirmative Action/ADA Institution committed to cultural diversity.

ASSISTANT PROFESSOR DEPARTMENT OF BIOLOGICAL SCIENCES STANFORD UNIVERSITY

The Department of Biological Sciences invites applicants for the tenure-track position of Assistant Professor in the area of organismal/integrative biology. Preference will be given to applicants applying molecular, cellular, or electrophysiological techniques to systems-level questions such as integration in sensory or motor systems, autonomic regulatory systems, neuroendocrinology, neuroimmunology, or learning and memory. Applicants should submit prior to October 1, 1998, a curriculum vitae (include e-mail address and FAX number); a concise (two to three pages) description of research experience and interests; and the names, addresses, FAX and telephone numbers, and e-mail addresses of three individuals willing to write letters of recommendation to:

Chair of Organismal/Integrative Search Committee
Department of Biological Sciences
Stanford University
Stanford, CA 94305-5020

Stanford University is committed to increasing representation of women and members of minority groups on its faculty and encourages applications from such candidates.

POSITIONS OPEN

ASSISTANT PROFESSOR BIOCHEMISTRY/MOLECULAR BIOPHYSICS THE JOHNS HOPKINS UNIVERSITY

The Department of Biology, The Johns Hopkins University invites applications for a tenure-track faculty appointment in the fields of biochemistry/molecular biophysics. Regardless of area of research, we are only interested in applicants of the very highest caliber with a demonstrated outstanding record of research. The successful candidate will be expected to establish a vigorous research program and to participate in graduate and undergraduate teaching.

Information about the Department's faculty, research interests, and resources may be obtained at the Department's website: http://www.bio.jhu.edu/.
Applicants should submit a curriculum vitae (including

Applicants should submit a curriculum vitae (including the names and addresses of three referees) together with a statement of current and planned research, and arrange to have three letters of recommendation sent to:

> Dr. Ernesto Freire, Chair Search Committee in Biochemistry/ Molecular Biophysics Department of Biology The Johns Hopkins University 3400 North Charles Street Baltimore, MD 21218

Deadline for receipt of applications is October 31, 1998.

The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are especially encouraged to apply.

ENVIRONMENTAL CHEMISTRY DIVISION OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH School of Public Health University of Minnesota

ASSISTANT PROFESSOR (new faculty position, 100-percent time, 12 month, tenure track) in environmental chemistry. This position will expand the environmental chemistry program in water chemistry or atmospheric chemistry. The successful applicant will develop an independent, externally funded research program, teach and advise Master's and doctoral students, and participate in outreach activities related to environmental chemistry. Qualifications include earned doctorate in environmental chemistry or related area by date of hire, demonstrable research and teaching experience in environmental chemistry. Deadline for application is November 15, 1998. Submit curriculum vitae, names and addresses of three references, and a brief statement of interest to: D. Swackhamer, Search Chair, Box 807 Mayo, 420 Delaware Street S.E., Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity Educator and Employer.

TENURE-TRACK ASSISTANT PROFESSOR VERTEBRATE PHYSIOLOGY

Primary teaching responsibility: upper-level physiology course, senior/graduate-level immunology, graduate-level comparative physiology, and additionally do some teaching in anatomy and physiology. Ph.D. in discipline required. Must be willing to participate in Master's degree program and develop research program. Applications reviewed immediately. Position open until filled. Possible start date: January 1999. Send résumé, names of three references, and statement of teaching and research interests to: M. E. Warren, Department of Biology, Lamar University, P.O. Box 10037, Beaumont, TX 77710. Lamar University is an Affirmative Action/Equal Opportunity Employer, a member of the Texas State University System.

Penn State Berks–Lehigh Valley College invites applications for two ASSISTANT PROFESSOR positions in the Division of Science. Positions will be available August 1999 and require a Ph.D. in either biochemistry or cell biology. Responsibilities include teaching upper and lower-division undergraduate courses at either the Berks or Lehigh Valley campuses. Expectations for the positions include the development of an undergraduate research program and service to the college and community. For additional information and application instructions refer to the college website: http://www.bk.psu.edu/faculty/openpos.html; e-mail: bde1@psu.edu. Application review begins October 15, 1998, and will continue until the positions are filled. Equal Opportunity Employer/Affinnative Action.



Health System

ROBERT S. DOW CHAIR IN NEUROLOGICAL RESEARCH

Legacy Health System, an 800-bed nonprofit provider in Portland, Oregon, invites applicants to fill a newly created Endowed Chair. Candidates are expected to have achieved international peer recognition and contributed to prominent publications in the neurosciences. The successful candidate will develop a balanced program of clinical and basic research using both internal and external funding. Laboratory space, animal facilities, and outpatient clinics are available in a new 60,000-square foot research center.

Please submit a curriculum vitae and names of three references to:

Lutz A. Kiesow, M.D., Ph.D. Chief of Legacy Research Chairman, Search Committee P.O. Box 3950 Portland, OR 97208-3950 FAX: 503-413-4942

E-MAIL: lkiesow@lhs.org

CONFERENCE

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 - Natural Attenuation • DNAPL & Technical Impracticability of Groundwater Restoration
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 - MTBE Regulations
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For More Information Contact the Conference Directors:

Edward J. Calabrese, Ph.D. or Paul T. Kostecki, Ph.D.

Forschungszentrum Karlsruhe Technik und Umwelt

Im vierköpfigen Vorstand des Forschungszentrums Karlsruhe sind die Positionen von

2 Vorstandsmitgliedern

neu zu besetzen, in einem Falle umgehend und im anderen Falle zum Ende des Jahres 1999. Ihre Aufgabe soll es sein, die beiden wesentlichen Kooperationsbereiche des Forschungszentrums, einerseits die Wissenschaft, andererseits die Wirtschaft, innerhalb des Vorstandes zu vertreten.

Das Forschungszentrum Karlsruhe ist Mitglied der Herrmann von Helmholtz-Gemeinschaft Deutscher Forschungszentren. Es ist mit etwa 3700 Beschäftigten, davon über 1200 mit wissenschaftlich-technischer Hochschulbildung, eine der größten öffentlichen Forschungseinrichtungen in Deutschland. Zur Ergänzung der Grundfinanzierung durch die Gesellschafter Bund und Land Baden-Württemberg kommt der Einwerbung von Drittmitteln wachsende Bedeutung zu. Programmschwerpunkte sind Umweltforschung, Energietechnologien, Mikrosystemtechnik, Nanotechnologien und Medizintechnik. Die Arbeit umfaßt die gesamte Bandbreite der Forschung von reiner Grundlagenforschung bis zu anwendungsorientierter, industrienaher Entwicklung. Nähere Informationen finden Sie im Internet unter http://www.fzk.de.

Für die Ergänzung des Vorstandes suchen wir Persönlichkeiten, die eine überzeugende wissenschaftliche Qualifikation besitzen und in verantwortlicher Position in der Forschung gearbeitet haben. Umfangreiche Erfahrungen einerseits im Wissenschaftsmanagement, andererseits in der Kooperation mit mittleren oder großen Industrieunternehmen, sind Voraussetzungen für eine erfolgreiche Wahrnehmung der Aufgaben. Sie sollten fähig und bereit zur kollegialen Zusammenarbeit im Vorstand sowie in der Lage sein, hochqualifizierte Wissenschaftlerinnen und Wissenschaftler kooperativ zu führen und zu motivieren.

Die Vergütung orientiert sich an der für Leitungsfunktionen im Hochschulbereich vorgesehenen Besoldung.

Bitte senden Sie Ihre Bewerbung oder Interessenbekundung bis zum 30. September 1998 an den

Vorsitzenden des Aufsichtsrates des Forschungszentrums Karlsruhe GmbH,

Herrn Ministerialdirektor Dr. Ludwig Baumgarten Bundesministerium für Bildung, Wissenschaft, Forschung und Technologie, 53170 Bonn

PHYSIOLOGIST/ANATOMIST

The Department of Biological Sciences at California Polytechnic State University, San Luis Obispo, is seeking applicants for a tenure-track position at the ASSISTANT PROFESSOR level available September 1999. Salary is commensurate with qualifications and experience. Primary teaching responsibilities will be in human anatomy/physiology (including cadaver anatomy) and upper-division physiology courses. Applicants should have research experience in cellular physiology, such as electrophysiology. Other duties will include student advising and directing students in undergraduate and graduate (M.S. level) research. Applicants must have a Ph.D. at time of hiring. A strong commitment to teaching and to productive professional development are essential.

To obtain an application refer to recruitment code 93008 and send a letter of interest to: Dr. V. L. Holland, Chair, Biological Sciences Department, California Polytechnic State University, San Luis Obispo, CA 93407.

Applicant files must be completed by November 15, 1998. A completed file will contain the following: (1) application form; (2) curriculum vitae; (3) statement of interest with respect to teaching and research; (4) three letters of recommendation (submitted directly by references); (5) official graduate transcripts. All materials are to be sent to the address above. Refer to recruitment code 93008 in all correspondence.

Cal Poly is strongly committed to achieving excellence through cultural diversity. The university actively encourages applications and nominations of women, persons of color, applicants with disability, and members of other underrepresented groups. Affirmative Action/ Equal Employment Opportunity.

MICROBIOLOGIST. The Food Animal Health and Management Center, College of Veterinary Medicine, Kansas State University (website: http://www.vet.ksu.edu/fah&m/index.htm) is seeking a Microbiologist to fill an 18-month contract for a non-tenure-track, faculty position at the ASSISTANT/ASSOCIATE PROFESSOR level. Candidates must have a Ph.D. in microbiologist in the ASSISTANT/ASSOCIATE PROFESSOR level. gy with strong background and experience with infectious disease agents and contemporary molecular microbiology for use in evaluating advanced pathogen detection techniques. Candidates will be judged on their potential to supervise directed research programs involving the sampling and culturing of bacterial pathogens (E. coli O157: H7, Salmonella, and others), and advanced nucleic acid detection systems with animal health, food safety, environmental, and public health applications. Preference will be given to the individual who can demonstrate superior communication skills and the ability to work in goaloriented, team-based research groups. Salary commensurate with experience. Submit a statement of microbiological experiences, research interests, career goals, curriculum vitae, and names of three references including their telephone numbers and e-mail addresses to: Dr. Jerry R. Gillespie, Director, Food Animal Health and Management Center, Kansas State University, College of Veterinary Medicine, 1800 Denison Avenue, Manhattan, KS 66506. Telephone: 785-532-4258; FAX: 785-532-4288; e-mail: gillesp@vet.ksu.edu. Review of applications begins September 15, 1998. KSU is an Equal Opportunity Employer. KSU actively seeks diversity among its employees.

CELL BIOLOGIST

The Department of Zoology at North Carolina State University (NCSU) invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level available July 1, 1999. Applicants should have an outstanding record of research achievements with interests in fundamental principles of cell biology and/or molecular biology, including, but not limited to, cellular neurobiology, cell growth and differentiation, cellular regulation, signal transduction, cell motility, and cell-cell interactions. The successful applicant is expected to establish an energetic, extramurally funded research program and to teach and advise students at the undergraduate and graduate level. Further information is available on the NCSU website: http://www.cals.ncsu.edu/zoology. Applicants should submit a curriculum vitae, statement of research interests, statement of teaching interests, and the names of three references to: Dr. Robert R. H. Anholt, Chair, Search Committee, Department of Zoology, Box 7617, North Carolina State University, Raleigh, NC 27695-7617. Review of applications will begin on November 16, 1998, and will continue until the position is filled. North Carolina State University is an Affirmative Action/ Equal Opportunity Employer.

POSITIONS OPEN



The Haverford College Department of Cellular, Molecular, and Developmental Biology (website: www. haverford.edu/biology) seeks a tenure-track ASSIST-ANT PROFESSOR, beginning in the 1999-2000 academic year, in molecular neurobiology. The successful applicant will contribute to our introductory curriculum, teach upper-level courses in areas of expertise, and participate actively in an interdisciplinary area of concentration in neurobiology and behavior. S/he will maintain an active research program engaging undergraduate students in the study of an important biological problem at the molecular level for which teaching credit will be granted. Possible research areas include developmental neurobiology and the molecular biology of excitable cells. At least two years of postdoctoral experience are required. Send curriculum vitae, one- to two-page description of teaching philosophy and research plans, and three letters of reference by November 3, 1998, to: Ms. Tessa Canavan, Biology Search Secretary, Haverford College, 370 Lancaster Avenue, Haverford, PA 19041-1392. Questions about the position may be directed to: Prof. Karl Johnson or Prof. Jennifer Punt, Telephone: 610-896-1187.

Haverford College, located 10 miles west of Philadelphia, is an Equal Opportunity/Affirmative Action Employer; women and minority candidates are especially encouraged to apply.

GENETICIST

The Department of Biology, Bryn Mawr College invites applications for tenure-track position at the level of ASSISTANT PROFESSOR beginning fall 1999. We are searching for a broadly trained Geneticist whose research uses modern molecular biological techniques and intersects with one or more of the following fields already represented in the department and elsewhere on campus: cell and developmental biology, neural and behavioral sciences, ecology, and environmental sciences. Teaching responsibilities will include a course in classical and molecular genetics with laboratory, participation in the teamtaught introductory biology course, and an advanced course in a specialty area. Development of an active research program involving undergraduate and graduate students is expected. The successful candidate is expected to demonstrate a strong commitment to combining teaching and research activities. A Ph.D. is required and postdoctoral research experience is desirable.

Application deadline is November 6, 1998. Send application including curriculum vitae, a statement of teaching and research interests, names and addresses of at least three professional references, and copies of key publications and/or preprints to: Margaret Hollyday, Department of Biology, Bryn Mawr College, 101 North Merion Avenue, Bryn Mawr, PA 19010-2899. For more information, visit our website: http://bascom.brynmawr.edu/Acads/Biology/.

Bryn Mawr College is an Equal Opportunity/Affinnative Action Employer. We encourage applications from individuals interested in joining a multicultural and international academic community. Minority candidates and women are especially encouraged to apply.

ASSISTANT PROFESSOR IN BIOLOGICAL CHEMISTRY JOHNS HOPKINS UNIVERSITY School of Medicine

The Department of Biological Chemistry at the Johns Hopkins University School of Medicine invites applications for a tenure-track position at the Assistant Professor level. The department is seeking candidates with a commitment to excellence in research and teaching in biochemistry. Applicants should submit curriculum vitae, list of publications including representative reprints, three letters of recommendation, and a summary of research plans to:

Dr. M. Daniel Lane Search Committee Chairperson Department of Biological Chemistry The Johns Hopkins University School of Medicine 725 North Wolfe Street Baltimore, MD 21205

To ensure full consideration, applications must be received by November 16, 1998.

Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR. Molecular genetics or structural biology. The School of Biological Sciences is beginning its second phase of expansion as a Program of Preeminence within the University of Missouri System. The areas of molecular genetics and structural biology are designated for development within the school in the new 10-year plan. Thirty members have already been appointed to the school's faculty as part of the first phase. This person will become a School of Biological Sciences Career Scholar-Scientist. This unique opportunity for a junior/intermediate-level position is the first in the new cycle of growth designed to attract preeminent young scientists. For this purpose, we have marshaled resources commensurate to the task. We seek an outstanding Investigator with expertise in the area of eukaryotic molecular genetics or structural biology or closely related disciplines including molecular immunology and molecular neurobiology. The successful candidate is expected to develop and expand an externally funded research program with some teaching obligations. A Ph.D. with demonstrated publications and with existing or imminent peer-reviewed, renewable, independent federal grant support preferred. Extremely competitive salary and start-up package available as well as funding to support research unrelated to that already receiving extramural support or to expand a promising new aspect of that project. Submit curriculum vitae, a brief statement of research interest, and the names, addresses, and telephone numbers of four references to: Career Scholar-Scientist Search, Office of the Dean, School of Biological Sciences, University of Missouri-Kansas City, 5100 Rockhill Road, Kansas City, MO

An Affirmative Action/Equal Opportunity Employer.

University of Maryland, Baltimore County (UMBC) seeks applicants for a tenure-rack ASSISTANT PRO-FESSOR position in macromolecular X-ray crystallography. Candidates will be expected to develop a vigorous research program and teach at the graduate and undergraduate levels. This appointment, in the Department of Chemistry and Biochemistry, will be supported with new instrumentation and other laboratory needs, and will complement existing programs in structural biology in-cluding biomolecular NMR, fast spectroscopy, and mass spectrometry. Applicants should submit a curriculum vitae, a short description of future research plans, and have three letters of reference sent to: The X-ray Crystallography Search Committee, Department of Chemistry and Biochemistry, University of Maryland, Baltimore County, Baltimore, MD 21250. Applications will be accepted until the position is filled. UMBC is an Affirmative Action/Equal Opportunity Employer and applications from qualified women, minorities, and individuals with disability are encouraged.

VERTEBRATE DEVELOPMENTAL BIOLOGIST

The Department of Cellular Biology at the University of Georgia is seeking a tenure-track ASSISTANT PROFESSOR. The successful candidate will be expected to have postdoctoral experience and the capacity to generate a strong, independent, creative research program in vertebrate developmental biology. The Department has teaching needs in anatomy/physiology as well as developmental biology. To apply send curriculum vitae, description of future research plans, statement of teaching interests, and three letters of recommendation to: Prof. Judith H. Willis, Department of Cellular Biology. University of Georgia, Athens, GA 30602-2607. Applications received by October 15, 1998, are assured of consideration. Learn more about us at website: http://www.uga.edu/cellbio. The University of Georgia is an Equal Opportunity/Affirmative Action Employer. We encourage applications from minorities and women.

ASSISTANT/ASSOCIATE PROFESSOR EVOLUTION AND ECOLOGY

The University of Rochester, Department of Biology, invites applications for a faculty position in the area of evolution and ecology. Although we encourage outstanding applicants from all branches of evolution or ecology, we are especially interested in individuals whose interests lie in evolutionary or ecological genetics. Applications should be received by November 15, 1998. Applicants should submit a curriculum vitae, statements of research and teaching interests, and have three references send letters of recommendation to: Chair, Evolution and Ecology Search Committee, Department of Biology, University of Rochester, Rochester, NY 14627.

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

FACULTY POSITION MOLECULAR CARDIOLOGY PROGRAM

The Molecular Cardiology Program at the University of Chicago invites applications for a tenure-track position at the Assistant or Associate Professor level. The successful candidate has an M.D. and/or Ph.D with research experience in the areas of molecular and cellular biology, developmental biology and/or human and mouse genetics. Applicants should submit a curriculum vitae, summary of research accomplishments, and three letters of recommendation to: Jeffrey M. Leiden, M.D., Ph.D, **Molecular Cardiology Search** Committee, The University of Chicago, 5841 S. Maryland, MC 6080, Room B608, Chicago, IL 60637.



The Swiss Federal Institute of Technology Zurich (ETHZ) invites applications for a

Professor in Environmental Health

The emphasis of research of this chair lies in the area of "environment and human health." Primarily, programs investigating environmental factors influencing human health should be developed and carried out, integrating scientific, technological, and sociological data into the process of solving complex problems. Consequently, human exposure by chemical and biological stressors originating from the anthropogenically influenced compartments air, water, and soil and their interactions with the biosphere is to be assessed.

It is expected that the candidates have an important scientific record and experience in implementing scientific data, the capability of working transdisciplinarily, and the ability of coping with uncertainties in dealing with prevention.

Teaching is expected at all levels within the department Environmental Sciences as well as other departments.

Applicants should submit a detailed résumé and a list of publications to the **President of ETH Zurich**, **Prof. Dr. O. Kübler**, **ETH Zentrum**, **CH-8092 Zurich**, no later than November 30, 1998. The ETHZ specifically encourages female candidates to apply with a view toward increasing the proportion of female professors.



Two-year postdoctoral position in cardiovascular electrophysiology

Who we are

F. Hoffmann-La Roche Ltd, one of the world's leading pharmaceutical companies, has a long-standing reputation for successful and innovative drug development. One of the missions of our preclinical research department is to investigate novel approaches to drug therapy. In pursuit of that mission, we are currently looking for a talented, motivated, and energetic individual to fill the following position:

The position

A position in electrophysiology is available in a laboratory concentrating on the role of voltage-gated K channels, in the cardiovascular system. As part of efforts to develop new drugs acting on K channels, the successful candidate will characterize specific K channels and study the activity of new chemical entities on these and other channels.

Who you are

Applicants must have a PhD and a solid backgroud in cellular electrophysiology (patchclamp or oocyte voltage-clamp methods). Experience in cell preparation from cardiovascular tissues and/or molecular biology would be welcomed. Applicants need to be fluent in English.

Who to contact

If the above profile fits your background and experience and you are interested in this challenging postdoctoral position, please forward your application, with full supporting documentation, to F. Hoffmann-La Roche Ltd., Mr. Werner Aschwanden, PSPB, 52/205, CH-4070 Basel, quoting reference As880. For further information, please contact Dr. Odile Chomienne, Tel. ++41/61/688 15 05.

CHAIR DEPARTMENT OF NEUROSCIENCE UNIVERSITY OF PENNSYLVANIA School of Medicine

The University of Pennsylvania School of Medicine seeks outstanding candidates for the position of Professor and Chair of the Department of Neuroscience.

The successful applicant will be of international stature in his/her area of the field and will provide academic leadership in the broadly defined area of neuroscience. Applicants should also have demonstrated qualifications in education and in the development of innovative academic programs.

Letters of interest, curriculum vitae, and name of references should be sent to:

Robert L. Barchi, M.D., Ph.D.
Chair, Neuroscience Search Committee
University of Pennsylvania
School of Medicine
Department of Neuroscience
218 Stemmler Hall
3450 Hamilton Walk
Philadelphia, PA 19104-6074

The University of Pennsylvania is an Equal Opportunity/ Affirmative Action Employer. Women, minority, and international candidates are encouraged to apply.

TENURE-TRACK POSITION NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

A tenure-track position is available in the Laboratory of Allergic Diseases, National Institute of Allergy and Infectious Diseases (NIAID), National Institutes of Health (NIH), Public Health Service, for an M.D. or M.D.-Ph.D. scientist to develop an independent research program related to the exploration of the mechanisms of allergic inflammation and their treatment. Space, technical, and Postdoctoral Fellow support, supply budget, and salary are committed. Training in the techniques of molecular biology and/or in clinical research is desirable. Preference will be given to applicants who are Board-certified in pediatrics, have training in allergy and immunology, and have studied eosinophil biology. Applicants must be U.S. citizens or permanent residents. A curriculum vitae, bibliography, three letters of reference, a detailed statement of research interest, and selected publications should be submitted to: Dr. Thomas Fleisher, Chairperson, c/o Cindy Pagonis, NIH/NIAID/Laboratory of Allergic Diseases, Twinbrook II Room 200E, 12441 Parklawn Drive, Rockville, MD 20852.

The NIH is an Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR CELLULAR/MOLECULAR BIOLOGY

The University of Rochester is seeking applicants for a tenure-track position who have demonstrated outstanding potential for independent work in the areas of molecular or cellular biology. The Biology Department faculty employ genetic and molecular approaches to study problems in cellular, molecular, developmental, and evolutionary biology. Additional faculty with allied interests are located in the adjacent Medical School. By December 1, 1998, applicants should submit a curriculum vitae, bibliography, summary of research and teaching interests, and request three references send letters of recommendation to: Chair, Cellular/Molecular Biology Search Committee, Department of Biology, University of Rochester, Rochester, NY 14627.

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

California Institute of Technology invites applications for a position as ASSISTANT PROFESSOR of chemical physics/physical chemistry, including multidisciplinary areas with experimental and/or theoretical emphasis. The initial appointment is four years. Outstanding candidates who have completed their Ph.D. and have a strong commitment to research and teaching excellence are encouraged to apply. Submit by November 15, 1998, curriculum vitae, publication list, a concise description of proposed research, and three letters of recommendation to: Professor Ahmed Zewail, Chair, Faculty Search Committee, Arthur Amos Noyes Laboratory of Chemical Physics, 127-72, California Institute of Technology, Pasadena, CA 91125. The California Institute of Technology is an Equal Opportunity/Affiniative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

POSITIONS OPEN

ASSISTANT/ASSOCIATE/FULL PROFESSOR of molecular muscle biology in the Department of Veterinary and Comparative Anatomy, Pharmacology, and Physiology (VCAPP). Washington State University seeks to fill a tenure-track position at any level to begin July 1, 1999. Required: Ph.D. or D.V.M.-Ph.D. or equivalent, and a minimum of three years of postdoctoral research experience in molecular muscle biology. Preferred: experience and interest in teaching professional students in pharmacology, physiology, or anatomy; willingness and ability to collaborate in current ongoing research; publications in high-impact journals; an interest in integrative biology; and demonstrated communication and interpersonal skills. Review of applicants will begin December 1, 1998, and will continue until the position is filled. The application should include a cover letter that indicates rank sought, a curriculum vitae, description of teaching experience, summary of research interests and potential projects, and the names, addresses, and telephone numbers of three references. Mail application materials to: Search Committee, Department of Veterinary and Comparative Anatomy, Pharmacology, and Physiology, Washington State University, Pullman, WA 99164-6520. E-mail: bmorton@vetmed.wsu.edu. Washington State University is an Equal Opportunity/Affirmative Action Educator and Employer. People of color, women, persons of disability, Vietnam-era and disabled veterans, and/or persons between the ages of 40 and 70 are encouraged to apply.

PLANT EVOLUTIONARY BIOLOGIST. The Department of Botany of Duke University seeks a broadly trained Evolutionary Biologist for a TENURE-TRACK POSITION at any rank. The candidate will be expected to develop a comprehensive research program in any area of plant population biology or plant evolution, teach in introductory and advanced courses, and participate in interdepartmental programs in evolutionary biology and genetics. Evolutionary biology at Duke has a long tradition of interactive, innovative research in both theoretical and experimental areas. Descriptions of personnel, programs, and facilities: Botany, website: http://www. botany.duke.edu; Zoology, website: http://www.zoology.duke.edu; Genetics Program, website: http:// ives.biochem.duke.edu/GenProgram. Applicants should provide (1) letter with details of accomplishments and future research and teaching goals, (2) curriculum vitae, (3) reprints of recent papers, and (4a) for junior candidates three letters of reference forwarded directly from the recommenders, or (4b) for senior candidates the names and telephone numbers of three referees to: **Dr. James S.** Clark, Chair of the Search Committee, Department of Botany, Box 90338, Duke University, Durham, NC 27708-0338. Applications received by October 15, 1998, will be guaranteed consideration. Duke University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT DIRECTOR. Identity testing. National Legal Laboratories, Inc., (NLL), a division of Lifecodes Corporation, conducts DNA testing in disputed parentage cases for state child support offices and for private individuals in the United States. Position involves result analysis and case review. Assist in development and upgrading of laboratory procedures, quality control, and quality assurance. Interact with clients regarding results, questions concerning genetics, and provide expert witness testimony. Ph.D. in genetics or related biological field is required. Experience with DNAbased testing is desirable. Forward résumé to: Dianne Mitchell, Human Resource Manager, National Legal Laboratories, Inc., 2947 Eyde Parkway, Suite 110, East Lansing, MI 48823. FAX: 517-349-6879. Equal Opportunity Employer.

RESEARCH ASSISTANT PROFESSOR in molecular oncology. Requires Ph.D. with minimum of three years of postdoctoral experience. Position requires experience in gene cloning and library construction. Duties include conducting research in molecular biology of cancer, supervising technicians and graduate students, acquire extramural funding. For fullest consideration, apply by October 5, 1998. Send curriculum vitae, names and addresses of three references to: Igor B. Roninson, Ph.D., Department of Molecular Genetics (M/C 669), University of Illinois at Chicago, 900 South Ashland Avenue, Chicago, IL 60607-7170. UIC is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

The Institute for Behavioral Genetics and the Department of Psychology, University of Colorado, Boulder, invite applications for a faculty position in behavioral genetics, beginning August 1999 or earlier. We anticipate an appointment at the level of ASSOCIATE PROFESSOR, but applications at all levels may be considered from those who would strengthen the Institute's diversity. We are especially interested in a Quantitative Geneticist with experience in the QTL analysis of complex characters. Interested persons should send a curriculum vitae, a statement of research and teaching interests, example research papers, and at least three letters of recommendation to: Professor John K. Hewitt, Chair, Behavioral Genetics Search, Institute for Behavioral Genetics, Campus Box 447, University of Colorado, Boulder, CO 80309-0447. We will begin reviewing applications as they are completed (beginning in October 1998), but will continue to accept applications until the position is filled. The University of Colorado at Boulder is committed to diversity and equality in education and employment.

DEVELOPMENTAL BIOLOGIST. Montana State University seeks a tenure-track ASSISTANT/ASSOCIATE PROFESSOR starting 15 August 1999. Require Ph.D. in an appropriate discipline in life sciences or equivalent, evidence of potential to teach and to develop an extramurally funded research program using molecular and cellular approaches to study fundamental questions in development with preferred emphasis on studies of the vertebrate nervous system. Teaching responsibilities include undergraduate developmental biology and contributions to molecular/cellular biology teaching program. Send letter of application, curriculum vitae, statements of teaching and research interests, and three letters of reference to: Biology Department, Montana State University, Bozeman, MT 59717. Telephone: 406-994-4481. Full position announcement at website: http://www.montana.edu/wwwbi. Screening begins October 15, 1998. Affirmative Action/ADA/Equal Opportunity/Veterans Preference.

ASSISTANT PROFESSOR TERRESTRIAL WILDLIFE ECOLOGY

The Department of Wildlife and Fisheries Sciences is seeking a tenure-track Assistant Professor in landscape-based restoration ecology. The candidate should have excellent quantitative skills, will develop an active, externally funded research program, and teach at the undergraduate and graduate levels. Salary commensurate with experience. Submit a recent curriculum vitae, transcripts, description of teaching philosophy and research interests/experience, and three letters of references by October 30, 1998, to: Dr. Thomas E. Lacher, Jr., Search Committee Chair, Department of Wildlife and Fisheries Sciences, 210 Nagle Hall, Texas A&M University, College Station, TX 77843-2258. Telephone: 409-847-9334; website: http://wfscnet.tamu.edu.

The Texas A&M University System is an Equal Opportunity Employer and encourages applications from women and minorities.

The University of Michigan, Department of Ophthalmology is seeking to add to its faculty a Pediatric Ophthalmologist. Rank at the ASSISTANT, ASSOCIATE, or PROFESSOR level based on the individual's academic qualifications. Applicants must be certified by the American Board of Ophthalmology or Board-eligible, must have taken subspecialty Fellowship training in an AAPOS-approved Fellowship in pediatric ophthalmology. Must have demonstrated interest and experience in patient care, education, and research. Individuals interested in this position should submit their curriculum vitae and bibliography to: Paul R. Lichter, M.D., Professor and Chairman, Department of Ophthalmology, The University of Michigan, W. K. Kellogg Eye Center, 1000 Wall Street, Ann Arbor, MI 48015. The University of Michigan is an Equal Opportunity and Affirmative Action Employer and actively seeks diversity in its applicant pool.

LifeSpan BioSciences, Inc., a biotechnology company focusing on gene expression and localization in human diseases, has positions open for both Ph.D. SCIENTISTS as well as M.S./B.S. RESEARCH ASSOCIATES with experience in in situ hybridization. The candidate should have broad knowledge of in situ hybridization methods, including radioactive and nonradioactive detection methods, and at least three years of experience applying these techniques to human or rodent model systems. Please send cover letter, résumé, and three professional references to: Human Resources, LifeSpan BioSciences, Inc., 700 Blanchard Street, Seattle, WA 98121. FAX: 206-464-1723.

Bioscientists Go Business in Heidelberg

An international contest for the best ideas to set up your own biotech company in the best scientific environment Germany can offer

Heidelberg is the science base of the BioRegion Rhine-Neckar-Triangle, which was awarded in the BioRegio Contest 1996 as one of three model regions in Germany for the development of bio- and gene technology. Scientific excellence, a thriving pharmaceutical industry, the availability of funds and seed capital and professional advice all have contributed to the creation of new innovative biotech enterprises, some of which are already competing on the world market.

Why not join them?

You are a young scientist from Germany or another country of the European Union and you have worked for some years in the fields of molecular biology, biotechnology, or molecular medicine at a top institution in the United States or elsewhere.

You have an excellent scientific reputation and a business mind and—having experienced the excitement of the entrepreneurial life sciences sector—you are thrilled by the idea and the challenge to set up business yourself.

BioRegion Rhein-Neckar-Dreieck provides you with an unsurpassed opportunity to start your own company. If your application has been selected by our committee as one of the 10 best and most advanced proposals to set up business in the Rhine-Neckar-Triangle you will be offered:

- Return trip (APEX) to Heidelberg
- · Accommodation in a first-class hotel in Heidelberg
- A one-week visiting program through the BioRegion tailor-made for your requirements. This includes scientific and business meetings at the relevant biotech institutions and industries as well as professional advice on all aspects of setting up a biotech company in the region.

Requirements for Application

Please submit:

- Project Outline (3-5 pages), if possible business plan
- Curriculum vitae, including business experience
- List of publications (last 5 years)
- Patents (approved or pending)

Deadline of Application

Your application will be considered if we have received it by 20th October 1998 at:

BioRegion Rhein-Neckar-Dreieck, e.V. Im Neuenheimer Feld 515 D-69120 Heidelberg, Germany

Fax: (+49) 6221-64 922 15

You will be informed about the decision on your proposal by the first week of November 1998. For the winners the visit to the Rhine-Neckar-Triangle BioRegion is scheduled for the **First week of March 1999**.

European Careers

Advertising Supplement

Issue Date: 2 October 1998
Booking Date: 15 September 1998

In the 2 October 1998 issue, *Science* presents a review of new and emerging career opportunities in Europe. With a worldwide circulation of 159,975 weekly subscribers, *Science* is the world's leading journal for scientific recruitment.

Bonus Distributions

The 2 October issue will be distributed to:

- 31 UK and European University Science Programs.
- NIH Research Week, 8-9 Oct., Bethesda, MD

To book your ad, ring Debbie Cummings on Phone: +44 (0)1223 302067 Fax: +44 (0)1223 576208 E-mail: european_ads@science-int.co.uk



1. June 1998 BPA International Publisher's Statement.

INSTITUTE of CELL and MOLECULAR BIOLOGY

SENIOR RESEARCH FELLOW

Required to join a strong research group working on a range of projects including the structure of the centromere/kinetochore and the role of chromosomal proteins in mitotic events. You will be expected to share the responsibility for day-to-day running of a research group of 10-12 people in addition to carrying out a vigorous individual research programme. Preference will be given to senior candidates with at least three years' of postdoctoral experience and with demonstrated interest and experience in the study of chromosome structure and/or mitotic mechanisms.

The project is funded by The Wellcome Trust for a minimum period of 2 years from 1 October 1998 and is under the direction of Professor W.C. Earnshaw.

Salary scale: £21,436 - £28,545 p.a. (plus Wellcome Trust Enhancement Premium) commensurate with experience.

Please quote REF: 896558SCI.

Further particulars including details of the application procedure should be obtained from

THE PERSONNEL DEPARTMENT,
THE UNIVERSITY OF EDINBURGH,
1 ROXBURGH STREET, EDINBURGH EH8 9TB.
Tel: 0131 650 2511 (24 hour answering service).

http://www.personnel.ed.ac.uk/recruit.htm

Closing date: 25 September 1998.



Promoting Excellence in Teaching and Research

Committed to Equality of Opportunity

The Department of Psychiatry of the University of Pittsburgh School of Medicine/Western Psychiatric Institute and Clinic is seeking a broadly trained Ph.D. GE-NETICIST who will complement a research team with interests in statistical, psychiatric, and cancer genetics. The applicant must have substantive experience in positional cloning of genes, including linkage mapping, building clone maps, characterization of new genes and markers, and mutational screening via SSCP and sequence analysis. Experience with DNA/RNA, including Southern and Northern analysis, is essential. Some training in statistical genetics is expected. Candidates who have developed novel methods to facilitate gene identification will be favored. This position will carry an academic faculty appointment in the Department of Psychiatry, outside the tenure track, at the rank of RESEARCH IN-STRUCTOR or RESEARCH ASSISTANT PRO-FESSOR, commensurate with qualifications and experience. The University of Pittsburgh offers competitive starting salary and an excellent benefit package. Interested candidates should send a letter of inquiry and curriculum vitae to: David J. Kupfer, M.D., Professor and Chair, Western Psychiatric Institute and Clinic, 3811 O'Hara Street, Pittsburgh, PA 15213.

Deadline for submission of applications is September 30, 1998.

The University of Pittsburgh, as an educational institution and as an employer, does not discriminate on the basis of race, color, religion, ethnicity, national origin, age, sex, marital, veteran, or disabled status. This commitment is made by the University and is in accordance with federal, state, and local laws and regulations.

Faculty position at Boston College. The Department of Chemistry invites applications for a tenure-track position in biochemistry or chemistry applied to the under-standing of biological processes. Appointment effective September 1999. Applicants are sought at the ASSIST-ANT PROFESSOR level; outstanding applications for more SENIOR levels are also welcome. Applicants at the Assistant Professor level should send a résumé, a summary of research plans, and arrange to have three letters of recommendation transmitted. Established Investigators should send a letter of application and appropriate supporting materials. All materials should be sent to: Chair, Faculty Search Committee, Department of Chemistry, Boston College, Chestnut Hill, MA 02467. A commitment to a vigorous and internationally recognized research program, and the ability to teach biochemistry at both the graduate and undergraduate levels, are essential. The Chemistry Department is housed in a superb, awardwinning facility in a surburb of Boston, minutes from other major universities. Website: http://chemserv.bc. edu. Applications should be complete by November 1, 1998. Equal Opportunity Employer/Affirmative Action.

Wm. Jennings Bryan Dorn VA Medical Center is recruiting an ASSOCIATE CHIEF OF STAFF for Research and Development. This individual will be responsible for oversight and promotion of the research efforts at the medical center and will hold a joint appointment at the University of South Carolina School of Medicine and the South Carolina Cancer Center. Qualified candidates should be U.S. citizens and have an area of interest in both basic research and clinical trials related to the etiology and treatment of malignancies, especially prostate, colon, or lung. The appropriate candidates may have either an M.D. or a Ph.D. degree. Salary is commensurate with qualifications. Interested individuals should send a copy of their curriculum vitae to: Dr. William G. Woods, Director, South Carolina Cancer Center, 7 Richland Medical Park, Columbia, SC 29203. For more specific information Telephone: 803-695-6825. The Department of Veterans Affairs is an Equal Opportunity Employer.

RESEARCH ASSISTANT/ASSOCIATE

Two positions are available immediately to join a group of Researchers working on the development and application of molecular microbial assays for monitoring tuberculosis patients enrolled in clinical trials. Candidates must have a Ph.D. or Master's degree, strong training in microbiology as well as good skills in molecular biology and biochemistry, good interpersonal skills, including written and verbal communication, and ability to work in project teams. Interested candidates should submit a curriculum vitae with names and adversess of three references to: Kathleen Eisenach, Ph.D., Mycobacteriology Research Laboratory—151, J. L. McClellan Memorial Veterans Hospital, 4300 West 7th Street, Little Rock, AR 72205. FAX: 501-664-6748; e-mail: eisenachkathleend@exchange.

POSITIONS OPEN

DIRECTOR, OFFICE OF NEW ANIMAL DRUG EVALUATION CENTER FOR VETERINARY MEDICINE

Center for Veterinary Medicine (CVM) is part of the Department of Health and Human Services, Food and Drug Administration (FDA) and is located in Rockville, Maryland. The Director, Office of New Animal Drug Evaluation is responsible for planning, managing, and directing the evaluation of the safety and efficacy of new animal drugs in pharmaceutical dosage forms or for use in animal feeds, and the safety aspects of drug and food additive residues remaining in food produced for human consumption from animals, intentionally or otherwise, administered drugs or food additives; review and determination of the adequacy of information submitted in support of proposed use of investigational new animal drug applications; the evaluation of manufacturing methods and procedures for new animal drug products; the coordination of development and implementation of regulations and policies pertaining to new drugs intended for animal use; and participation in international activities designed to harmonize the drug approval processes. This position may be filled in the Senior Executive Service (SES) or the Senior Biomedical Research Service (SBRS). Salary range is \$106,412 to \$151,800. Applicants must have an advanced degree in biological or related sciences. Candidates must also have training and experience related to evaluating the safety and effectiveness of animal drugs, devices, and/or feed additives; a basic understanding of the disciplines underlying the review of new animal drug applications; and basic knowledge of food safety concerns in consideration of agricultural practices and public health. For further information, contact: Jeylene Wood, Telephone: 301-827-4170. Submit application materials by November 15, 1998, to: Jeylene Wood, Office of Human Resources and Management Services, FDA. Room 7B32, HFA-408, Parklawn Building, 5600 Fishers Lane, Rockville, MD 20857.

FDA is an Equal Opportunity Employer and FDA is smoke-free.

Opening (October 1, 1998) for an NIH-funded position to study signal transduction mechanisms within the cardiovascular system. Research focus concerns regulation of tyrosine kinase and MAP kinase signaling pathways by free radicals and hypertrophic agents. Representative projects include (1) regulation of vascular smooth muscle cell hypertrophy; (2) alterations in the MAP kinase signaling pathway in hypertension; and (3) cellular signaling pathways involved in myocardial reperfusion injury. Position requires a Ph.D. in cell and molecular physiology, cell biology, or a related discipline. Experience in Western blotting and immunocytochemistry is required. Must be eligible for NIH funding. Send curriculum vitae, statement of research interests, and the names of three references to:

Pamela Lucchesi, Ph.D.
Department of Physiology and Biophysics
University of Alabama at Birmingham
986 McCallum Building
1918 University Boulevard
Birmingham, AL 35294-0005

An Affirmative Action/Equal Opportunity Employer.

ASSISTANT ATTENDING IN NUCLEAR MEDICINE

Memorial Sloan-Kettering Cancer Center is seeking a Board-certified Nuclear Medicine Physician for a position as Assistant Attending in nuclear medicine. The individual should have at least three years of experience in clinical nuclear medicine, demonstrated evidence of scholarly pursuits of clinical problems, and a commitment to teaching. PET experience is highly desirable. Please send inquiries to: Steven M. Larson, M.D., Chief, Nuclear Medicine Service, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. Memorial Sloan-Kettering Cancer Center is an Equal Opportunity Employer.

RESEARCH ASSOCIATE position is available immediately at the Molecular and Cellular Cardiology Division. Candidates should have skills and experience in patch-clamp techniques applied to cardiomyocytes and Xenopus oocytes. Knowledge of molecular biology techniques is desired. Salary commensurate with experience. Please send curriculum vitae and three references to: Dr. M. Boutjdir, Cardiology Division, VA Medical Center, Brooklyn, NY 11209. FAX: 718-630-3796; email: boutjdir@sprynet.com.

POSITIONS OPEN

JOINT INSTITUTE FOR LABORATORY ASTROPHYSICS

Joint Institute for Laboratory Astrophysics (JILA), operated jointly by the National Institute of Standards and Technology and the University of Colorado, is devoted to research and applications in the fields of laser technology, optoelectronics, precision measurement, surface science and semiconductors, information and image processing, materials and process science, as well as basic research in atomic, molecular, and optical physics; precision measurement; gravitational physics; chemical physics; astrophysics; and geophysical measurement. At JILA there is interest in fostering further interaction with industry research efforts in order to identify new, industrially relevant applications of the technologies developed. Applications are invited for two programs:

(1) RESEARCH ASSOCIATESHIPS for advanced

- (1) **RESEARCH ASSOCIATESHIPS** for advanced research by recent Ph.D's. Applications are accepted and considered anytime throughout the year.
- (2) **VISITING FELLOWSHIPS** for advanced research by senior scientists. Deadline for completed applications is November 1, 1998.

Further information may be obtained from: The Secretary, Visiting Scientists Program, Joint Institute for Laboratory Astrophysics, Box 440, University of Colorado, Boulder, CO 80309-0440. E-mail: jilavf@jila.colorado.edu; website: http://jilawww.colorado.edu.

The University of Colorado at Boulder is committed to diversity and equality in education and employment.

BIOORGANIC CHEMIST

The Laboratory of Bioorganic Chemistry, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), invites application for a tenure-track position in bioorganic chemistry. The applicant must have a proven record of accomplishments in synthetic, bioorganic, and/or medicinal chemistry and will be expected to propose an independent research program that applies the principles of organic chemistry to biomedical challenges. The position offers unparalleled opportunities for interdisciplinary collaboration within NIDDK and throughout NIH. For online information see website: http://ohrm.niddk.nih.gov/vac/online.html.

The Laboratory is located on the main intramural campus of the NIH in Bethesda, Maryland, a suburb of Washington, D.C. Applicants should send a curriculum vitae and list of publications, copies of major publications, a summary of research accomplishments, a plan for future research, and three letters of reference to: Dr. Kenner Rice, Chair, Search Committee, Laboratory of Bioorganic Chemistry, Building 8, Room B1-20, National Institutes of Health, Bethesda, MD 20892-0810. Closing date: September 30, 1998.

ASSISTANT RESEARCH SCIENTISTS

- (1) Ph.D. 10-plus years of polymer science: development of nanomaterials for biological application.
- (2) Ph.D. Eight-plus years of analytical/microscopic techniques: visualize/characterize complexes of polymer and genetic material.

Contact: Internal Medicine, University of Michigan Medical Center, 9220 MSRB III, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0648. FAX: 734-936-2990; e-mail: cverweij@umich.edu. A nondiscriminatory Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately at Brigham and Women's Hospital, Harvard Medical School to study the regulation of cell adhesion mediated by complement receptors CR1 and CR3. Experience in molecular biology and protein chemistry is required. Must be a U.S. citizen or pennanent resident. Send curriculum vitae and the names, addresses, telephone numbers, and e-mail addresses of three references to: Dr. Lloyd B. Klickstein, Division of Rheumatology, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. FAX: 617-525-1227; e-mail: lklickstein@rics.bwh.harvard.edu. Equal Opportunity Employer.

A New Jersey-based law firm (200-plus attorneys) seeks a SCIENTIFIC/MEDICAL ANALYST to assist our science group in its work relating to toxic tort and product liability litigation. Responsibilities will include literature review, project management, and science writing and editing. We need an enthusiastic self-starter who has proven communication and project management skills. Must be a team player. Ph.D. preferred. FAX résumé to: McCarter & English, FAX: 973-624-7070.

Merck KGaA

Darmstadt / Germany

Biomedical Research

Merck KGaA is an international pharmaceutical company with a long-term commitment to innovative research. In order to ensure our innovative power and research quality, the **Preclinical R&D Department "Biomedical Research"**, located in Darmstadt/Germany, is looking for a dynamic, innovative Postdoctoral Molecular Cell Biologist to join our target identification and essay development program (2-year fellowship).

As qualified **Research Scientist in Molecular Cell Biology**, you will be responsible for investigating novel receptor-ligand interactions in several systems. The position requires a Ph.D. in Molecular or Cell Biology or an equivalent combination of education and experience. Experience with proteinases and extracellular matrix would be of advantage, as would be knowledge of differential display technologies or cell-based assay development. You are an enthusiastic self-starter, with skills in project coordination, capable of functioning successfully within a team. The position is available at the earliest convenience.



If you match our expectations and wish to fulfill your scientific ambitions within a competent and motivated team, please forward your complete application to Merck KGaA, Human Resources R&D, attn. Mr. Peter Geib, 64271 Darmstadt. Further information can be obtained via e-mail by harder@merck.de or matzku@merck.de or visit our internet homepage (http://www.merck.de).

UNIVERSITY OF AARHUS UNIVERSITY OF AARHUS – DENMARK FACULTY OF SCIENCE POSTDOCTORAL RESEARCH FELLOWSHIP

Applications are invited for a postdoctoral position funded by the Danish Cancer Society at the Department of Molecular and Structural Biology. The position is available from the autumn of 1998 for a period of 3 years.

The qualified individual will be involved in a project concerning type-I inhibitor of plasminogen activators and the role of this protein in cancer invasion and -metastasis.

We are looking for an individual with a solid background in DNA-technology and an interest in protein structure-function relationships.

Applications should include a curriculum vitae giving evidence on which the evaluation of the applicant's scientific and teaching qualifications can be based, a complete list of publications — together with three copies of those publications that the applicant selects as the most relevant for the application. Other supportive material should also be submitted in 3 copies. The selection committee may include further material from the list of publications in its evaluation of the applicant. In that case the applicant must, upon request, submit the material to the selection committee.

A Ph.D. degree (or the equivalent) obtained within the past five years is a recommended prerequisite.

The selection committee's written evaluation of the applicant will be sent to the applicant on request.

Applications should be addressed to the Faculty of Science, University of Aarhus, Ny Munkegade, Building 520, DK-8000 Aarhus C, Denmark, and marked 212/5-140. Deadline for the receipt of all application material is October 26, 1998.

Further information can be obtained from Professor Peter A. Andreasen, Department of Molecular and Structural Biology, University of Aarhus, tel. +45 8942 5080, e-mail: pa@mbio.aau.dk. or the network address http://www.mbio.aau.dk/~pa/welcome.htm.



Preclinical Research

NEUROFIT S.A. operates in vitro and in vivo testings of the nervous system, on animal models of neurodegeneration and neuroprotection in relation to neurological and psychiatric disorders. NEUROFIT is ideally located in Strasbourg (France) in a high-tech network gathering universities and private biotechnology companies. To assure its state-of-the-art innovative growing activity, Neurofit offers new employees or consultants positions.

Ref: Sc901 NEUROSCIENTIST — MARKET DEVELOPER

Applicants, with a background in Neuropharmacology, should have a good knowledge of the neurology market. The successful candidate should have a well-established scientific and industrial network of contacts; he will play the pivotal role of promotion and expansion of our worldwide market, in close collaboration with our team.

Ref: Sc902 DRUG DEVELOPER — CLINICAL TRIALS

Applicants, with a background in Neurology/Neuropharmacology, should have an established track of clinical network and expertise in drug development. The successful candidate will assure both the promotion and coordination of phase I clinical trials in close collaboration with our team.

Ref: Sc903

WELL-ESTABLISHED CONSULTANTS

Applicants will initiate and coordinate operations between pharmaceuticals companies and Neurofit.

NEUROFIT, Parc d'Innovation, r. Sapidus, 67400 ILLKIRCH, FRANCE

Tel: +33 (0) 388 651 606 E-mail: neurofit@tpgnet.net Fax: +33 (0) 388 651 622 website: www.tpgnet.net/neurofit

POSTDOCTORAL POSITIONS EPITHELIAL GROWTH AND DIFFERENTIATION

Positions are available in five participating laboratories that interact and collaborate closely, to study cell and molecular biology of bladder epithelium, which elaborates uroplakins, a group of novel membrane proteins, as its major differentiation products (PNAS 93:9630, 1996; Cancer Res. 58:1291, 1998; Nature Bio Tech 16:75, 1998). Proficiency in molecular and/or protein techniques required. Send curriculum vitae and a letter indicating your interest(s) to: Dr. T.-T. Sun, Director, Epithelial Biology Unit, Department of Dermatology, New York University Medical School, 550 1st Avenue, New York, NY 10016. FAX: 212-263-8561; e-mail: sunt01@mcrcr.med.nyu.edu. Xiangpeng Kong, Ph.D., Assistant Professor biochemistry, molecular structure of urothelial membranes using electron crystallographic techniques. Gert Kreibich, Ph.D., Professor cell biology, synthesis, processing, and targeting of urothelial membrane proteins. Angel Pellicer, M.D., Ph.D., Professor pathology, roles of oncogenes and tumor suppressor genes in transgenic models of bladder tumor forma-tion. Tung-Tien Sun, Ph.D., Professor dermatology, pharmacology, and urology, regulation, and function of uroplakin genes. Xue-Ru Wu, M.D., Assistant Professor urology and microbiology, molecular mechanisms of urinary tract infection.

POSTDOCTORAL POSITION immediately available to study signal transduction mechanisms within the cardiovascular system. Research focuses regulation of tyrosine kinase signaling pathways by free radicals and hypertrophic agents. Representative projects include (1) regulation of vascular smooth muscle hypertrophy; (2) alterations in kinase cascades in hypertension; and (3) signaling pathways involved in myocardial reperfusion injury. Position requires a Ph.D. in physiology, cell biology, or related discipline. Experience in Western blotting and immunocytochemistry is required. Must be eligible for NIH funding. Send curriculum vitae, statement of research interests, and the names of three references to: Pamela Lucchesi, Ph.D., Department of Physiology and Biophysics, University of Alabama at Birmingham, 986 McCallum Building, 918 University Boulevard, Birmingham, AL 35294-0005. E-mail: lucchesi@phybio.bhs.uab.edu; FAX: 205-934-5787. Affinnative Action/Equal Opportunity Employer.

The Division of Basic Science at the Institute of Human Virology has a POSTDOCTORAL POSITION available for an outstanding individual who has obtained the degree of Ph.D. or equivalent in immunology, molecular biology, or biochemistry. The incumbent will join a team of successful and multifaceted scientists to conduct basic and applied research on HIV-1 host-cell interactions and their relationships to chemokines. Preference will be given to applicants with expertise and/or an interest in chemokine immunology and/or protein expression and purification. Applications should contain a brief letter indicating the applicant's research interests, a curriculum vitae, and three letters of reference. Applications should be sent to: Dr. Anthony DeVico, Institute of Human Virology, 725 West Lombard Street, Baltimore, MD 21202. E-mail: devico@umbi.umd.edu. Affirmative Action/Equal Employment Opportunity Employer.

POSTDOCTORAL POSITION IN ALZHEIMER'S DISEASE

Position available to study the cell and molecular biology of Alzheimer's disease. Candidates need a Ph.D. and/or M.D. with expertise either in neurobiology, molecular biology, cell biology, or virology. Send curriculum vitae including contact information for three references to: Dr. David Cook, Veterans Affairs Puget Sound Health Care System, Geriatric Research, Education, and Clinical Center (182B), 1660 South Columbian Way, Seattle, WA 98108. E-mail: cook.david_g@seattle.va.gov. The University of Washington is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study the interactions of proteoglycans and the malaria parasite. A strong biochemical background is essential and experience in proteoglycans/glycobiology is highly desirable. Send résumé and three letters of references to: D. C. Gowda, Department of Biochemistry, Georgetown University Medical Center, 3900 Reservoir Road N.W., Washington, DC 20007. FAX: 202-687-7186; e-mail: gowda@bc.georgetown.edu.

POSITIONS OPEN



POSTDOCTORAL RESEARCH POSITION

Postdoctoral Research Associate position to study T-cell costimulation as it relates to allograft and xenograft survival. This position is located in the Naval Medical Research Institute, Bethesda, Maryland, and will involve a close collaborative relationship with the Principal Investigator to support an ongoing funded research effort examining costimulation blockade as a means of preventing transplant rejection in primates. This opportunity is open to energetic and enthusiastic individuals with a M.D. or Ph.D. degree. The candidate must have a strong background in molecular and cellular immunology and should have interest in the mechanisms of the induction and maintenance of peripheral tolerance. We offer a comprehensive benefits package. Send curriculum vitae to:

Human Resources Department, Attn: PL#2980380
Henry M. Jackson Foundation
for the Advancement of Military Medicine
1401 Rockville Pike, Suite 600
Rockville, MD 20852
E-mail: hr@hjf.org

Equal Opportunity Employer/Affirmative Action.

POSTDOCTORAL POSITIONS at the National Cancer Institute (NCI) in developmental signal transduction under the direction of Ira O. Daar, Ph.D. Our studies in Xenopus laevis are aimed at understanding the signal transduction events elicited by a member of the Eph family of receptor tyrosine kinases and its ligand. Another project examines the regulation and function of Xmeis, a novel family of Xenopus homeodomain proteins whose murine homologues are involved in myeloid leukemogeneis. Applicants should have a strong background in molecular, cellular, or developmental biology. Candidates must be U.S. citizens or permanent residents and have less than five years of postdoctoral experience. Send curriculum vitae and correspondence to: Ira Daar, Ph.D., Laboratory of Leukocyte Biology, Building 567, Room 228, NCI-Frederick Cancer Research and Development Center, Frederick, MD 21702. E-mail: daar@ncifcrf.gov; FAX: 301-846-7034.

POSTDOCTORAL POSITION IN NEUROBIOLOGY YALE UNIVERSITY Section of Neurobiology

A Postdoctoral position is available to study active mechanisms of olfactory bulb dendrites and their specific roles in sensory circuits for processing odor information. Ph.D. required, with laboratory experience in patch clamp and/or brain slice methods. The project will involve a close collaboration among several research groups at Yale working on dendrites and olfaction (including Dr. G. M. Shepherd and Dr. C. A. Greer). Applicants should send a curriculum vitae, summary of research interest, and names of three references to: Dr. Wei R. Chen, Section of Neurobiology, Yale Medical School, 333 Cedar Street, New Haven, CT 06510 USA. Email: chen@spine.med.vale.edu.

POSTDOCTORAL POSITION to investigate the molecular mechanism(s) regulating the expression of the rat hepatic sulfotransferase multigene family is available September 15, 1998. Experience with molecular cloning, transient transfection, and gene expression techniques required. Send letter, curriculum vitae, and three references to: M. Runge-Morris, M.D., Institute of Chemical Toxicology, Wayne State University, 2727 Second Avenue, Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply. Wayne State University—people working together to provide quality service.

Two NIH-funded POSTDOCTORAL POSITIONS available immediately to study transcriptional regulation of recombinant alpha and bunya viruses utilizing molecular biological and virological techniques. Strong experience in biochemistry or molecular biology or tissue culture essential. Please contact: Dr. Raju Ramasamy, Microbiology, Meharry Medical College, Nashville, TN 37208. Telephone: 615-327-6687; FAX: 615-327-6602; e-mail: ramasa25@ccvax. mmc.edu. Candidates may also send their curriculum vitae and two letters of recommendation to the above address.

POSITIONS OPEN

POSTDOCTORAL POSITIONS EUNICE KENNEDY SHRIVER CENTER FOR MENTAL RETARDATION

Two Postdoctoral positions are available immediately to study the role of neural cell adhesion molecules in the migration of neuronal cells during development. Applicants with expertise in modern cell biology, immunocytochemistry, and molecular biology are preferred. Please send curriculum vitae and names of three references to: Dr. Firoze Jungalwala, Biomedical Sciences, Eunice Kennedy Shriver Center, 200 Trapelo Road, Waltham, MA 02452. Telephone: 781-642-0136; FAX: 781-893-4824; e-mail: fjungalwala@shriver.org.

shriver.org.

A third Postdoctoral position is available immediately to study regulation of the neuron-specific human tau gene, known to cause fronto-temporal dementia. The research will focus on the regulation and function of tau alternative splicing. Candidates should have experience in molecular and cellular biology; knowledge of protein purification techniques is desirable. Please send curriculum vitae and the names and telephone numbers of three references to: Dr. Athena Andreadis, Biomedical Sciences, Eunice Kennedy Shriver Center, 200 Trapelo Road, Waltham, MA 02452. FAX: 781-894-9968; e-mail: aandreadis@shriver.org.

The Shriver Center, located in suburban Boston, is

The Shriver Center, located in suburban Boston, is affiliated with Massachusetts General Hospital (MGH) and Harvard Medical School. The selected candidates will have joint appointments at MGH and Harvard. The Department of Biomedical Sciences provides extensive core facilities and many opportunities for scientific interactions. Visit our website: www.shriver.org.

POSTDOCTORAL RESEARCH FELLOW position is available immediately for a highly motivated individual to investigate the role of protein phosphorylation in blood coagulation (e.g., see: J. Biol. Chem. 273:8459–8466). Ph.D. in biochemistry, cell biology, or related discipline required; expertise in molecular biology and cloning required. Experience in protein-protein interaction, phosphoproteins, and signal transduction desirable. Send curriculum vitae and bibliography, a brief statement of prior research experience, and names, telephone numbers, and e-mail addresses of four references to: Dr. Michael Kalafatis, Chemistry Department, Cleveland State University, 2351 Euclid Avenue, Cleveland, OH 44115. E-mail: m.kalafatis@popmail.csuohio.edu; FAX: 216-687-9298. Cleveland State University is an Affirmative Action/Equal Opportunity Employer committed to nondiscrimination. Minorities/Females/Disabled/Veterans encouraged.

POSTDOCTORAL POSITION in cytokine signaling and hematopoiesis, Penn State. Using unique in vitro and in vivo model systems, opportunities are available (i) to investigate the roles of recently cloned novel cytokine response genes during erythropoietin (and hematopoietic growth factor) regulated blood cell development (especially erythropoiesis), and (ii) to participate in Penn State's programs in cell and development biology, biochemistry and molecular biology, and veterinary science. Send statement of interests and résumé to: Dr. D. M. Wojchowski, 126 ASI Building, Penn State, University Park, PA 16802. FAX: 814-863-6140; email: dmwl@psu.edu. Affirmative Action/Equal Opportunity Fundover

POSTDOCTORAL POSITION available to study the effects of uranium and nickel on TCE degradation. Expertise required in (1) molecular techniques to monitor microbial populations and (2) analytical techniques to monitor degradation. Project is collaborative with Dr. P. Bertsch at Savannah River Ecology Laboratory (Aiken, South Carolina). Position available November 1998. Submit curriculum vitae and three references to: Pam Morris, Marine Biomedicine and Environmental Studies, 221 Ft. Johnson Road, Medical University of South Carolina, Charleston, SC 29412. E-mail: morrisp@musc.edu; FAX: 843-762-5535.

POSTDOCTORAL POSITION UCLA

Available to study the immunology of transplantation atherosclerosis in a mouse model. Molecular biology and immunology experience required. Send curriculum vitae and names of three references to: A. Ardehali, CHS 62-232, UCLA Medical Center, 10833 Le Conte Avenue, Los Angeles, CA 90095. E-mail: ardehal@surgery.medsch.ucla.edu.

University Of Dundee



Department of Pharmacology and Neuroscience

SENIOR LECTURER/READER IN MOLECULAR NEUROBIOLOGY LECTURER/SENIOR LECTURER IN NEURONAL DYSFUNCTION

The search committee invites applications from suitably qualified candidates for two tenure-track positions in the Department of Pharmacology and Neuroscience.

Since its inception in 1995, the Neurosciences Institute within the Department has been the focus for a major investment in Neuroscience research. As a consequence the Department now provides high quality, well equipped laboratories and a number of shared facilities. These include automated gene sequencing, a transgenic resource, confocal and epifluorescence microscopy and patch clamp/digital imaging. The University of Dundee has an exceptional reputation for international excellence in Life Sciences. Situated on the Ninewells campus, the Department is in close proximity to other highly prestigious groups, providing the ideal opportunity for successful multi-disciplinary collaborations.

These positions have been created to further strengthen two of the major research themes within the Department and to reflect this commitment, will have a protected teaching requirement in the initial stages.

Post 1: Senior Lecturer/Reader (equiv. to Associate Professor) in Molecular Neurobiology (Salary: £30,496 - £34,464) We seek to recruit a molecular biologist with an established research profile in the field of neurotransmitter receptor structure, assembly or function. The successful candidate will complement existing strengths in this area (Jeremy Lambert, John Peters and Bruno Frenguelli).

Please quote reference: EST/8/89/S.

Post 2: Lecturer/Senior Lecturer (equiv. to Assistant/Associate Professor) in Neuronal Dysfunction (Salary: £16,655 – £29,048 or £30,496 – £34,464 depending on scale). This position will ideally be filled by a candidate whose research is complementary to current expertise in the molecular mechanisms of neuronal dysfunction (David Nicholls, Bruno Frenguelli and Kieran Breen). Please quote reference: EST/9/89S.

Applicants at senior lecturer/reader level will have a recognised research programme in an appropriate field. Applicants at lecturer level should have a Ph.D and at least 3-4 years postdoctoral experience.

Appointment level for both posts will be dependent upon qualifications and experience of the applicants. Exceptional candidates for either post may be considered for a higher appointment level. For informal enquiries please contact Alison C Coughtrie, Research Administrator, Department of Pharmacology and Neuroscience, Ninewells Hospital and Medical School, Dundee DD1 9SY, Scotland, Tel: +44 (0)1382 63 2249, Fax: +44 (0)1382) 667120, e-mail: a.c.coughtrie@dundee.ac.uk Information regarding the research activities of the Department can be found on http://www.dundee.ac.uk/pharmacology

Applications by CV and covering letter (3 copies of each), together with the names, addresses, telephone and fax numbers of 3 referees, should be sent to Personnel Services, University of Dundee DD1 4HN, Scotland. Further Particulars are available for these posts, tel: +44 (0) 1382 344015. Please quote appropriate reference number.

Closing date: 5 October 1998.

The University is an Equal Opportunities Employer

PRODUCT DEVELOPMENT OPPORTUNITIES

Synomics builds information integration solutions for the pharmaceutical industry that maximize the investment made in IT and the new drug discovery techniques of genomics, HTS and parallel chemistry. Our research informatics integration framework allows our customers to build an integrated research knowledge base.

Synomics' development team is building a modular, multi-tier distributed system using object oriented technologies and open communication standards. Due to major investment, the company is seeking high-calibre individuals to fulfill the following roles:

Product Manager

We need to identify an excellent communicator with an in-depth understanding of both the drug discovery and the software development processes with proven commercial ability.

Software Engineers

We need talented engineers with skills in the areas of OO design and distributed application development using UML, Java beans, CORBA.

Quality Assurance Engineer

We are searching for a determined diplomat to establish the QA function within Synomics.

Candidates will need demonstrable experience of OA within an OO development environment.

Database Administrator

We are looking for in-depth knowledge of Oracle (v7 or v8) and experience of developing database applications using Java.

System Manager

We require a visionary to be responsible for planning our IT systems, and maintaining our expanding heterogeneous network.

Technical Author

We are looking for a natural communicator to meet the challenge of documenting a modular system. A flair for producing online/browserbased documentation would be highly valued.

All our candidates will be well educated with a scientific background, and preferably have experience of commercial software development. In addition, they will be motivated, capable of managing and meeting their deadlines, and keen to contribute directly to the company's success. For further information on the above positions, please contact Tom Flores, Ph.D., Chief Technical Officer, Synomics Ltd, 1 Cambridge Business Park, Cambridge CB4 0WZ, UK; Tel: +44 1223 420 707 Fax: +44 1223 425 692, email: tflores@synomics.com. Alternatively, please refer to our website, w w w . s y n o m i c s . c o m / e m p l o y m e n t .



POSTDOCTORAL RESEARCH ASSOCIATE

Molecular biology/plant hormones. A Postdoctoral Research Associate position (1.0 FTE) is available in molecular biology and genetics in a research program on cytokinins. The areas of emphasis include cloning, characterization, and modification of cytokinin-related genes. Ph.D. and strong training in molecular biology, biochemistry, and plant genetics, and an interest in plant hormone research are required. Salary is commensurate with experience. For further information, contact: David Mok, Telephone: 541-737-5460; e-mail: mokd@bcc.orst.edu. Send résumé, transcripts, and three letters of recommendation to: Viki Freeman, Oregon State University Horticulture Department, 4017 ALS, Corvallis, OR 97331-7304 by October 19, 1998, for full consideration. Applications will be accepted until position is filled. Telephone: 541-737-5475; FAX: 541-737-3479. OSU is an Affirmative Action/Equal Opportunity Employer and has a policy of being responsive to the needs of dual-career couples.

POSTDOCTORAL POSITION CARDIAC HYPERTROPHY/DEVELOPMENT

The laboratory utilizes molecular techniques and transgenic mouse models, as well as knockouts, toward understanding cardiac development and hypertrophic disease. The applicant should have a Ph.D. or M.D. and experience with molecular techniques, tissue culture, or mouse genetics. Please mail or FAX your curriculum vitae and a one-page description of past research experience to: Dr. Jeffrey D. Molkentin, Children's Hospital Medical Center, Division of Molecular Cardiovascular Biology, 3333 Burnet Avenue, Cincinnati, OH 45229-3039. FAX: 513-636-5958. Children's Hospital is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.

RESEARCH ASSOCIATE HARVARD-MIT

NIH-funded POSTDOCTORAL POSITIONS available immediately to study synaptic plasticity in brain stem regions important for cardiovascular and respiratory control in normal or mutant animals (J. Neurosci. 17:5348, 1997). Experience with in vitro neural recording in brain slice or cultured neurons preferred. Background in cardiorespiratory neurophysiology desirable but not required. Send curriculum vitae and three letters of recommendation to: C.-S. Poon, Ph.D., Harvard–MIT Division of Health Sciences and Technology, Room E25-501, MIT, Cambridge, MA 02139. FAX: 617-258-7906; e-mail: cpoon@mit.edu.

POSTDOCTORAL POSITION to study the function and structure of cyclic nucleotide-gated and hyperpolarization-activated pacemaker channels. Research involves patch clamp recordings of channels expressed in Xenopus oocytes or mammalian cell lines. The role of pacemaker channels in neuronal firing patterns is also studied in hippocampal slices. Experience in patch clamp recording is required. Additional training in molecular biology or calcium imaging is desirable. Send curriculum vitae and names of three references to: Dr. Steven A. Siegelbaum, Center for Neurobiology and Behavior, Columbia University, 722 West 168 Street, New York, NY 10032. We take Affimative Action toward Equal Employment Opportunity.

POSTDOCTORAL POSITION in cell physiology, Mayo Medical School, Clinic, and Foundation. A position is available immediately to study the molecular mechanisms of water transport in hepatic epithelia. Applicants must have a Ph.D. or M.D. degree with expertise in cell and molecular biology techniques and previous experience in epithelial transport. Send résumé and letters of reference to: Dr. Nicholas F. LaRusso, Center for Basic Research in Digestive Diseases, 1701 Guggenheim, Mayo Clinic, Rochester, MN 55905. Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.

POSTDOCTORAL/RESEARCH ASSOCIATE positions for molecular, biochemical, and transgenic studies of nuclear receptors/associate proteins and opioid receptors in developing animals. Experience in molecular and biochemical methods is desirable. Background in neurobiology is a plus. Send curriculum vitae and names of three references to: Dr. Li-Na Wei, Department of Pharmacology, University of Minnesota Medical School, 435 Delaware Street S.E., Minneapolis, MN 55455. FAX: 612-625-9402; e-mail: weixx009@maroon.tc.umn.edu.

POSITIONS OPEN



POSTDOCTORAL POSITION MOLECULAR GENETICS OF MYELINATION AND NEURONAL DIFFERENTIATION

A Postdoctoral position is available to characterize the genetic control of Schwann cell and neuronal differentiation at an institute that specializes in mouse genetics. We have adapted a PCR-based subtraction technique to work with small amounts of tissue, and have isolated genes that are induced or repressed by forskolin in cultured Schwann cells, and genes that are misexpressed in sciatic nerves or brains of mice that possess defects in myelination and neuronal differentiation. The goal of this project is to understand the roles of these genes in the genetic regulation of myelination and neuronal differentiation. Send résumé, including names and addresses of individuals that can be contacted for references, to:

John R. Bermingham, Jr. McLauglin Research Institute 1520 23rd Street South Great Falls, MT 59405 E-mail: jrbjr@po.mri.montana.edu

For additional information about the Institute contact George Carlson, Bill Crain, or John Mercer at MRI, or any of the following members of our Scientific Advisory Committee: Irv Weissman, David Baltimore, David Cameron, Neal Copeland, Jeff Frelinger, Leroy Hood, or Nancy Jenkins.

Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW

Applications are invited for a Postdoctoral Research position to study the folding, structure, and function of membrane proteins of the visual system. Highly motivated individuals with a Ph.D. in biochemistry or structural biology are preferred. Send curriculum vitae and the names of three references by September 15, 1998, to:

Dr. Kevin D. Ridge Center for Advanced Research in Biotechnology 9600 Gudelsky Drive Rockville, MD 20850 FAX: 301-738-6255

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

POSTDOCTORAL POSITION available November 1, 1998, for an NIH-funded project on signal transduction mechanisms that couple B-cell antigen receptor (BCR) to gene transcription in B cells. Current areas of interest include the role of protein phosphatases—and modulation of PKA activity—as mechanisms regulating transcription factor activity (J. Immunol. 159:4676). A second area of interest is the role of Ets-binding proteins in BCR-inducible gene transcription (J. Immunol. 157: 146). Experience in protein characterization and molecular biology required. Send curriculum vitae and names of three references to: Dr. Thomas Chiles, Department of Biology, Boston College, 411 Higgins Hall, Chestnut Hill, MA 02467. E-mail: thomas.chiles@bc.edu.

POSTDOCTORAL POSITION to study the structure-function relationships of human thromboxane A₂ receptors is immediately available. The studies combine molecular biology, protein purification, photoaffinity labeling, peptide sequencing of the proteolytic fragments of the receptors using mass spectrometry. Preference will be given to applicants with experience in molecular biology and protein purification. Curriculum vitae should be sent to: Perry V. Halushka, Ph.D., M.D., Medical University of South Carolina, Department of Pharmacology, 171 Ashley Avenue, Charleston, SC 29425. FAX: 843-792-0816; e-mail: halushpv@musc.edu. MUSC is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION HARVARD MEDICAL SCHOOL

NIH-funded project investigating molecular mechanisms of stress-induced apoptosis (J. Exp. Med. 182:865; 185:843; 187:547; Microbiol. Molec. Biol. Rev. 61:33). Experience in molecular biology preferred. Send curriculum vitae and names of references to: Paul Anderson, M.D., Ph.D., Division of Rheumatology and Immunology, Brigham and Women's Hospital, Smith 652, 75 Francis Street, Boston, MA 02115. E-mail: panderson@rics.bwh.harvard.edu.

POSITIONS OPEN

POSTDOCTORAL POSITIONS at the National Cancer Institute (NCI) in cytokine signal transduction, under the direction of Diana Linnekin, Ph.D. Candidate sought to study signal transduction mechanisms of hematopoietic growth factors. Work will be directed toward delineating the biochemical and molecular mechanisms of action of stem cell factor, the ligand for the receptor tyrosine kinase c-Kit. We are interested in structure-function studies of c-Kit with a focus on dissecting signal transduction pathways mediating stem cell factor-induced survival, proliferation, and differentiation of hematopoietic progenitor cells. Applicants should have a strong background in molecular and/or cellular biology, be a U.S. citizen or permanent resident, and have less than five years of postdoctoral experience. Send curriculum vitae and correspondence to: Diana Linnekin, Ph.D., Building 567, Room 226, NCI-Frederick Cancer Research and Development Center, Frederick, MD 21702. FAX: 301-846-6907; e-mail: dlinnekin@mail.ncifcrf.gov.

The Center for the Study of Emerging and Re-Emerging Pathogens is seeking POSTDOCTORAL FELLOWS for biochemical and molecular genetic studies of enterococcal adhesions including collagen and laminin binding proteins. Analyses will involve protein purification, mutagenesis, and virulence testing. The project is a collaboration between Barbara E. Murray, Magnus Höök, and George M. Weinstock. To apply, send curriculum vitae and three letters of recommendation to: Joan Payne, The University of Texas-Houston, Medical School, Microbiology and Molecular Genetics Department, 6431 Fannin, Suite 1.765, Houston, TX 77030-1501.

The University of Texas Health Science Center at Houston is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION MOLECULAR BIOLOGIST, LOS ANGELES

Senior Postdoctoral position (Ph.D. or M.D.-Ph.D.) available to develop brain tumor gene therapy program in the Department of Neurosurgery, University of Southern California Medical School. Candidate must have strong molecular biology background and work independently. Salary will be commensurate with experience. Successful candidate will have the opportunity to obtain faculty position in the Department of Neurosurgery. Send curriculum vitae and names and telephone numbers of two references to: Thomas Chen, M.D., Ph.D., 1200 North State Street #5046, Los Angeles, CA 90033. Telephone: 323-226-7421; FAX: 323-226-7833.

POSTDOCTORAL FELLOW

Seeking a highly motivated candidate to develop lentiviral vector research and apply results to animal models of human diseases. Candidate will also perform virological, immunological, and cell biological assays. Requires a Ph.D. or M.D. degree and experience in cell and molecular biology with an emphasis in virology and lentiviruses.

Send curriculum vitae and contact information of three references to: Scott Sparks, Senior Recruiter, City of Hope National Medical Center, 1500 East Duarte Road, Duarte, CA 91010-3000. FAX: 626-301-8182; e-mail: cohapply@smtplink.coh.org. Equal Opportunity Employer.

POSTDOCTORAL POSITION at Moss Landing Marine Laboratories, Monterey Bay, California available for developing heterologous gene expression system in yeast. Requires experience in molecular biology, protein biochemistry, and manipulation of yeast cultures. Studies to include development of systems for cell transformation, functional expression of foreign proteins including membrane-bound components, and immobilization onto solid substrates. Contact: San Jose State University Foundation, P.O. Box 720130, San Jose, CA 95172-0130. Telephone: 404-924-1460 for application forms and details.

SENIOR POSTDOCTORAL POSITION

Senior Postdoctorate available in the Harvard Institutes of Medicine for studies in AAV-mediated gene therapy, emphasizing the treatment of chronic disorders and malignancies of the central nervous system. Strong background in central nervous system research and/or viral vectors preferred. More junior applicants with exceptional relevant backgrounds also considered. Contact: Dr. E. Terwilliger, Harvard Institutes of Medicine, Room 345, 4 Blackfan Circle, Boston, MA 02115. FAX: 617-859-7010; e-mail: ernestt916@aol.com.

Virology and immunology. The Immunology and Virology Section, Laboratory of Immunology, National Eye Institute, National Institutes of Health, Public Health Service is searching for a POSTDOCTORAL/STAFF FELLOW scientist with expertise in molecular virology and immunology to establish studies on virus-host interactions of ocular inflammatory disease. The candidate's work will complement ongoing studies in the Laboratory on the study of host and viral factors involved in pathogenic processes within the eye. Current studies are evaluating the diagnosis, therapy, and pathogenic mechanisms involved in CMV, VZV, coronavirus, and Toxoplasma gondii infections. Training in molecular virology and immunology is desirable. Applicants must be U.S. citizens or permaneut residents. Please submit applications to: John J. Hooks, Ph.D., Chief, Immunology and Virology Section, NEI, Building 10, Room, 6N228, 10 Center Drive, MSC 1857, Bethesda, MD 20892-1857. Deadline date is October 26, 1998. Qualified and interested candidates should send curriculum vitae, bibliography, and three (3) letters of reference to the above address. NIH is An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS IN TRANSDUCTION OF HOST-BACTERIAL INTERACTION

A Postdoctoral position is available immediately to study the signal transduction and gene regulation mechanisms involved in host epithelial-bacterial interaction in the pathogenesis of infectious diseases (PNAS 94:967, 1997; PNAS 95:5718, 1998). Candidates should have a Ph.D. or M.D. with experience in molecular biology or cell biology. Experience in bacteriology and signal transduction is an asset. Annual salary begins at \$35,700 with benefits (full medical and retirement). Send a curriculum vitae and the names of three references to: Dr. Jian-Dong Li, Department of Cell and Molecular Biology, House Ear Institute, 2100 Weşt 3rd Street, Los Angeles, CA 90057. E-mail: idli@hei.org; FAX: 213-483-5675.

Professor M. C. Pirrung seeks POSTDOCTORAL FELLOWS in bioorganic chemistry and nucleic acid biochemistry. Recent Ph.D's with diverse interests sought for multidisciplinary research environment. Projects involve combinatorial chemistry, DNA synthesis, photochemistry, microfabrication (DNA "chips"), RNA analysis, enzyme inhibition. See: J. Org. Chem. 62:241–6; Chem. Biol. 5:49–57; Langmair 120:4243. Support from federal and industrial sponsors. New, state-of-the-art chemistry/biochemistry laboratories in the Levine Science Research Center. U.S. ditzen/permanent residence preferred. Send curriculum vitae, publication list, and references (with contact information) to: Department of Chemistry, Duke University, P.O. Box 90317, Durham, NC 27708. FAX: 919-660-1591.

A NIH-funded POSTDOCTORAL POSITION is available immediately in an interdisciplinary research group investigating the synthesis of peptide mimetic biomaterials. Applicants with a Ph.D. in biochemistry, organic chemistry, polymer chemistry, or a related field are encouraged to apply. Experience in protein chemistry, peptide synthesis/characterization, or liposomes is desirable. Send a curriculum vitae and the names of three references to: Phillip B. Messersmith, Ph.D., Division of Biological Materials, Northwestern University, 311 East Chicago Avenue, Chicago, IL 60611. Email: philm@nwu.edu. Northwestern University is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION available to study hypoxia-inducible factor 1 (HIF-1), a transcriptional regulator of cellular and systemic oxygen homeostasis, including analysis of signal transduction pathways that affect HIF-1 activity and the role of HIF-1 in ischemia, pulmonary hypertension, tumorigenesis, and normal development. Send curriculum vitae and three recommendation letters to: Gregg L. Semenza, M.D., Ph.D., Johns Hopkins University School of Medicine, CMSC-1004, Baltimore, MD 21287-3914. FAX: 410-955-0484. Equal Opportunity Employer.

POSTDOCTORAL POSITION. NIH-supported to study the membrane-associated interactions involved in the infection and assembly processes of the single-stranded DNA filamentous bacteriophage. Send curriculum vitae and names of three references to: Robert E. Webster, Ph.D., Department of Biochemistry, Box 3711, Duke University Medical Center, Durham, NC 27710 by September 30, 1998. Duke University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL RESEARCH POSITIONS IN FUNCTIONAL GENOMICS

Postdoctoral positions are available immediately in the functional genomics group of the E. coli Genome Project to exploit and develop methods for global characterization of the *E. wh* genome (**Blattner et al.**, *Science* **277**: 1453–1462, 1997). Projects include global gene expression studies using DNA chip–based microarrays of PCR fragments as well as an oligo-based *E. wh* GeneChip developed in collaboration with Affymetrix, Inc. A second project involves creation of conditional genetic knockout mutants and inducible expression plasmids covering the entire E. wli genome. A complete set of PCR primers and amplimers for the *E. wli* genome has been created for use in these studies. We are seeking self-motivated, highly focused scientists and will consider individuals with a strong background in microbiology, bacterial physiology, molecular genetics, recombinant DNA techniques, fluorescent hybridization technologies, and/or computer analysis of large datasets. Please send a curriculum vitae with cover letter describing research background and interests, reprints of publications if available, and the names of three references to: Dr. Craig Richmond, c/o Professor Frederick Blattner, University of Wisconsin, Department of Genetics, 445 Henry Mall, Madison, WI 53706. E-mail: craig@genetics.wisc.edu.

POSTDOCTORAL POSITION available in 1999 to study cell biology/enzymology of peptide hormone/neurotransmitter biosynthesis (see: J. Cell. Biol. 139: 625–638, 1997; J. Biol. Chem. 273:1158–1164, 1998). Current projects involve transgenic technology/protein structure-function analyses. Prefer motivated recent Ph.D. with experience in neuroendocrinology or enzymology for this position in productive laboratory in New Orleans, an exciting, low cost-of-living city. Competitive salary with yearly meeting travel. Please send curriculum vitae and names and telephone numbers of three references to: Iris Lindberg, Ph.D., Department of Biochemistry and Molecular Biology/Neuroscience Center, Louisiana State University Medical Center, 1901 Perdido Street, New Orleans, LA 70112. E-mail: ilindb@lsumc.edu.

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POSTDOCTORAL FELLOWSHIPS

Two positions are available immediately to study cell: cell interactions and signal transduction events in hematopoietic cells. Current areas of investigation include actions of selectins and their ligands, cell cycle control in leukemic cells, and bone:bone marrow interactions. Candidates must hold a Ph.D. or equivalent degree in a biomedical science such as biochemistry, cell and molecular biology, physiology, or pharmacology. A strong background in molecular biology, biochemistry, and cell culture is also required. Salary is commensurate with experience. Send résumé and three letters of recommendation (only) to: Ms. Kathleen Syrkowski, University of Michigan, 1150 West Medical Center, Room 3570 MSRB II, Ann Arbor, MI 48109-0688.

POSTDOCTORAL RESEARCH ASSOCIATE position in the Department of Physiology and Biophysics, Wright State University School of Medicine. Doctorate and research experience required. Conduct experiments on cellular and molecular mechanisms of intracellular ion and volume regulation in isolated neurons and glial cells. Experience with fluorescence imaging microscopy, computerized data analysis, and immunocytochemistry desirable. Send résumé, reprints, and the names of three references to: Dr. Robert Putnam or Dr. F. Javier Alvarez-Leefmans, Department of Physiology and Biophysics, Wright State University School of Medicine, Dayton, OH 45435. For more information: website: rputnam@desire.wright.edu; e-mail: fleefman@discover.wright.edu. An Affinnative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

Postdoctoral positions are available immediately to study roles of nuclear receptors/transcriptional factors using gene targeting. Projects include analysis of vitamin D receptor knockout mice (PNAS 94:9831) and generation of new knockout lines. Experience in molecular and cell biology required. To apply send curriculum vitae and names of three references to: Dr. Yan Chun Li, Department of Medicine, Section of Gastroenterology, The University of Chicago, 5841 South Maryland Avenue, MC 4076, Chicago, IL 60637. FAX: 773-834-2291. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION NOVEL GENES IN DRUG ABUSE AND NEURAL PLASTICITY

An interdisciplinary neuroscience/neuropharmacology laboratory has a position for a Molecular Biologist. Prior postdoctoral experience is acceptable although not required. The research topic includes a study of genes expressed by drugs of abuse and related neural stimuli. A current focus is on CART, a novel transcript induced by psychostimulants and on neurotransporters. Other projects in the laboratory include molecular studies of transporters and of preparation of knockout mice. A Ph.D. or M.D. or equivalent is required. Salary is competitive. Please send a curriculum vitae to: Dr. Michael J. Kuhar, Division of Neuroscience, Yerkes Primate Center, Emory University, 954 Gatewood Road N.E., Atlanta, GA 30329 USA. E-mail: mkuhar@rmy.emory.edu. Emory is an Equal Employment Opportunity/ Affirmative Action Employer. Vacancy #121056.

POSTDOCTORAL POSITION available immediately to address the biodegradation via dentrification processes and the fundamental properties of sediments that make polycyclic aromatic hydrocarbon compounds (PAHs) more or less bioavailable and toxic. The work will use new microscale measurement techniques for characterization of microorganisms and PAH distributions in sediment for the construction of mechanistic conceptual models to aid interpretation of sediment bioslurry treatment efficiency and toxicity of treated and untreated material. Candidates must have Ph.D. with demonstrated expertise in environmental engineering or biochemistry. Send curriculum vitae, and three references to: Dr. Richard G. Luthy, Department of Civil and Environmental Engineering, Carnegie Mellon University, Pittsburgh, PA 15213. FAX: 412-268-7813; e-mail: rl10@andrew.cmu.edu.

POSTDOCTORAL POSITIONS in biomolecular NMR available to study the relationship between the structure/dynamics of bacterial response regulatory proteins and their function (NIH funded). Candidates with knowledge in any (or all) of the following areas desired: multidimensional NMR, structure/dynamics calculations, protein expression/purification, molecular biology techniques. Send curriculum vitae and the names of three references to: Dr. John Cavanagh, Wadsworth Center, New York State Department of Health, Albany, NY 12201. E-mail: johnc@wadsworth.org; website: www.wadsworth.org. Successful applicants will be employed in Health Research Inc. An Affirmative Action/Equal Opportunity Employment Employer.

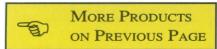
POSTDOCTORAL FELLOWSHIP. Position available immediately to study the relationship between cholesterol metabolism, lipidation of small G-proteins, and signaling in cardiac and endothelial cells. Strong background in cell and molecular biology required. Submit curriculum vitae to: Jonas B. Galper, M.D., Ph.D., Brigham and Women's Hospital, Harvard Medical School, 75 Francis Street, Boston, MA 02115. FAX: 617-732-5132; e-mail: galper@calvin.bwh.harvard.edu.

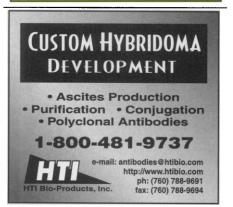
POSTDOCTORAL POSITION. In molecular biology/biochemistry for U.S. graduate to study recombinant fusion toxin for AML. Will study protein refolding, scale-up, apoptotic pathways, and synergy with cytotoxic drugs. FAX to: A. Frankel, Wake Forest University School of Medicine, Winston-Salem, NC 27157. FAX: 336-716-0255. Affinnative Action/Equal Opportunity Employer.

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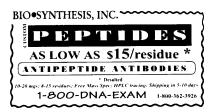
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Denhardt's solution (50X) is 1% Ficoll (type 400), 1% polyvinylpyrrolidone and 1% bovine serum albumin.

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Premixed solution of 10% sodium dodecyl sulfate. SDS is an anionic detergent used for protein denaturation, membrane disruption, and in protocols for dissociating nucleic acid-protein complexes. SDS is also used to prepare hybridization solutions.

- Certified DNAse/RNAse free
- Store at room temperature

20X SSC

20X SSC is a solution formulated for use in nucleic acid hybridizations and transfer applications. SSC is used in concentrations ranging from 0.2X to 20X depending on the individual application. 20X SSC contains 3.0 M NaCl and 0.3 M sodium citrate.

- Certified DNAse/RNAse free
- Store at room temperature

Sheared DNA

Herring sperm DNA is dissolved in DNAse/RNAse free H₂O. Average size of the sheared DNA is 200-800 bp.

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