



The American Association for the Advancement of Science

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>

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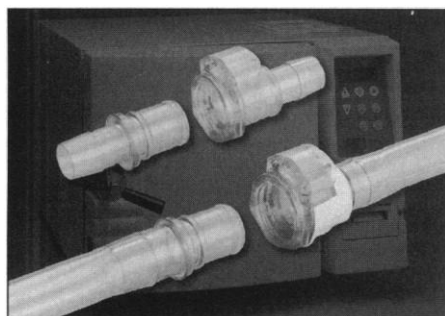
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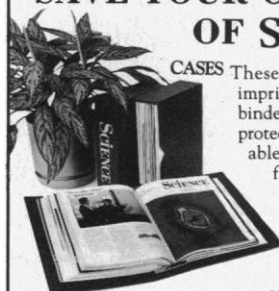
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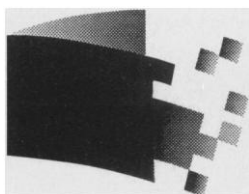
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FACULTY POSITIONS AVAILABLE IMMUNOLOGY

The University of Tennessee (UT) Department of Microbiology and Immunology is continuing a multiple-year expansion of its immunology group and invites applications for tenure-track positions at the level of **ASSISTANT PROFESSOR**. We are seeking Investigators whose research interests are directed to molecular and/or cellular analyses of contemporary problems in immunology. Candidates will be expected to develop independent, high-quality, extramurally funded research programs with long-term growth potential. Teaching responsibilities, which emphasize quality rather than quantity, include medical, dental, and graduate students. The Department offers a highly interactive intellectual environment with strong extramural research support. The UT Molecular Resource Center also provides cutting-edge research support services and reagents.

The review of applications will begin September 20, 1998, and will continue until the positions are filled. Applications should consist of curriculum vitae, copies of several recent publications, a brief statement of future research goals, and three letters of reference to be sent to:

Dr. Terrance G. Cooper
Department of Microbiology and Immunology
The University of Tennessee, Memphis
858 Madison Avenue, Room 801
Memphis, TN 38163

Detailed information about the Department may be obtained on the World Wide Web at website: <http://microbiology.utmcm.edu>.

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FACULTY POSITION AVAILABLE

ASSISTANT PROFESSOR. Microbiology/virology. The University of Texas Southwestern Medical Center at Dallas has launched a new Endowed Program for Scholars in biomedical research. As part of this program, the Department of Microbiology is seeking an exceptional new young Investigator in the field of molecular virology for appointment at the Assistant Professor (tenure-track) level. Candidates should have a Ph.D. and/or M.D. degree with at least two years of postdoctoral experience and an exceptional publication record. All outstanding young Investigators in virology are encouraged to apply, but preference may be given to candidates with interests in STD pathogens (e.g., herpes, CMV, HPV, HIV). The appointee will be expected to develop a front-rank, competitive, independent research program in his/her chosen field. The appointment includes competitive salary, new laboratory space in an attractive and dynamic research environment, and start-up funds of \$600,000 over a four-year period. Candidates should forward a curriculum vitae, three letters of recommendation, two or three representative publications, and a brief summary of future research to: Dr. Michael V. Norgard, Chairman, Department of Microbiology, University of Texas Southwestern Medical Center, 6000 Harry Hines Boulevard, Dallas, TX 75235-9048. U.T. Southwestern is an Equal Opportunity University.

FACULTY POSITIONS DEPARTMENT OF PATHOLOGY COLLEGE OF MEDICINE National Taiwan University

The Department of Pathology invites applications for two faculty positions at the rank of **ASSISTANT PROFESSOR OR ABOVE**. The individual applicants must hold a Ph.D. or M.D.-Ph.D. in biomedicine and have at least one year of postdoctoral experience in related field. The successful candidate is expected to develop an externally funded research program and to teach molecular and cellular biology in graduate program. Send curriculum vitae, statements of research interest, representative publications, and three letters of recommendation to: Dr. Su-Ming Hsu, Department of Pathology, National Taiwan University, College of Medicine, # 7 Chung-Shan South Road, Taipei 100 Taiwan. FAX: 886-2-2393-4172.

POSITIONS OPEN

SENSORY NEUROBIOLOGY WAKE FOREST UNIVERSITY SCHOOL OF MEDICINE

The Department of Neurobiology and Anatomy is initiating a search for a **TENURE-TRACK FACULTY MEMBER** working in sensory neurobiology. While all researchers studying sensory systems are encouraged to apply, preference will be given to candidates studying chemosensory systems and addressing questions regarding sensory integration. The selected candidate will interact with a large and cooperative group of Sensory Neurobiologists that direct funded projects spanning the visual, auditory, and somatosensory systems as well as training grant and program-project grants emphasizing integrative function and development. Candidates should have a doctoral degree, at least two years of postdoctoral research, a strong record of research accomplishments, and a commitment to developing an independent as well as collaborative research program. Teaching responsibilities will be commensurate with experience and background. A competitive recruitment package will include salary and fringe benefits, set-up funds, laboratory space, and shared equipment facilities.

Applications should include full curriculum vitae and a statement of research interests. Applicants should also arrange for three letters of recommendation to be sent to the Search Committee. The earliest start date for the position is July 1, 1999; applications will be accepted until a suitable candidate is recruited. Information about the position, individual faculty and research interests, and graduate programs can be found at website: <http://www.wfubmc.edu/nba/nba.html>. All application materials should be sent to: Faculty Search Committee, Department of Neurobiology and Anatomy, Wake Forest University School of Medicine, Medical Center Boulevard, Winston-Salem, NC 27157-1010. *Affirmative Action/Equal Opportunity Employer.*

CHAIR DEPARTMENT OF HUMAN GENETICS University of Alabama at Birmingham

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The applicant must have a Ph.D., M.D., or equivalent degree, a commitment to graduate and medical education, and a demonstrated record of leadership in administrative and academic activities. The successful candidate should be internationally recognized and have an outstanding record of scientific accomplishment with an ongoing, independent, and well-supported research program.

The Search Committee is headed by Robert P. Kimberly, M.D., Professor of Medicine. Interested applicants should submit their curriculum vitae including the names of three references to: Amy Thompson, Director, Administrative Services, University of Alabama School of Medicine, Medical Dean's Office-MEB 310, University Station, Birmingham, AL 35294-3293.

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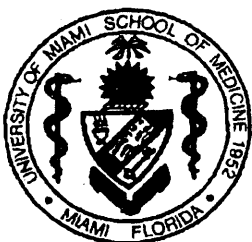
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Send curriculum vitae, bibliography to: Gregory A. Grabowski, Director, Division and Program in Human Genetics, Children's Hospital Medical Center, Division of Human Genetics, 3333 Burnet Avenue, PAV 3-52, Cincinnati, OH 45229-3039. *CHMC is an Equal Opportunity Employer.*



Associate Dean for Research and Graduate Education University of Miami School of Medicine

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Duties include formulating a strategic plan for research and graduate education; stimulating cooperative interdisciplinary studies; reorganizing and coordinating research infrastructure at the School of Medicine; and providing administrative support. Leading efforts in attracting research funding for basic and clinical research through grants, technology transfer, and philanthropy. Fiscal responsibility for the allocation of institutional research resources. The Associate Dean will work directly with the Dean of the School of Medicine and will be assisted by an Assistant Dean for Graduate Studies.

Interested applicants should respond with a cover letter containing a statement of research interests and a curriculum vitae including names of three references. Applications should be submitted prior to November 1, 1998:

Eckhard R. Podack, M.D.
Search Committee for Associate Dean of Research and Graduate Education
University of Miami School of Medicine
Department of Microbiology and Immunology
P.O. Box 016960 (R-138)
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Pulmonary Drug Discovery

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Ph.D. with 3 or more years postdoctoral experience studying epithelial cell growth, differentiation, and function. Experience with lung epithelium is not required. B.S./M.S. candidates are also encouraged to apply for positions in this area. **Code: PRSM44DJ1**

HISTOLOGY/MORPHOMETRY

Ph.D. with 3 or more years postdoctoral experience with expertise in lung and airway histology and morphometry. Experience in immunohistology and in situ hybridization would be desirable. B.S./M.S. candidates are also encouraged to apply for positions in this area. **Code: PRSM44DJ2**

ANIMAL MODELING

Ph.D. with 3 or more years postdoctoral experience with in vivo models of lung disease. Expertise in making in vivo physiological measurements required. Successful candidate will join established group in this area. B.S./M.S. candidates are also encouraged to apply for positions in this area. **Code: PRSM44DJ3**

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LUNG INFLAMMATION

Ph.D. with 3 or more years postdoctoral experience studying inflammation and injury. Experience with both in vivo and in vitro studies would be desirable. B.S./M.S. candidates are also encouraged to apply for positions in this area. **Code: PRSM44DJ5**

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HUNTER COLLEGE

OF THE CITY UNIVERSITY OF NEW YORK



DEAN OF THE DIVISION OF THE SCHOOLS OF THE HEALTH PROFESSIONS

The Hunter College Division of the Schools of the Health Professions, the largest such unit of The City University of New York, seeks a dynamic and creative Dean to lead it into the 21st century. The mission of the recently reorganized Division is to educate health professionals who can serve urban, diverse populations. Hunter's students and faculty reflect the diversity of New York City.

Comprised of the School of Health Sciences and the Hunter-Bellevue School of Nursing, the Division includes 52 full-time faculty, 877 undergraduate and 600 graduate students. The School of Nursing offers undergraduate and graduate degrees in clinical specialties and primary care nurse practitioner programs. The School of Health Sciences offers Bachelors and/or Masters degrees in community health education, nutrition, physical therapy, medical laboratory sciences, public health, environmental and occupational health, and communication sciences. Three research and training centers: the Center on AIDS, Drugs, and Community Health, the Center for Occupational and Environment Health, and the Brookdale Center on Aging also work closely with the Division to health professionals, and to conduct demonstration projects and community-based research.

The Dean manages the budget, is responsible for strategic planning, faculty recruitment, development and evaluation, student and alumni relations and works with faculty on curriculum. The Dean manages the two Schools and works closely with each School Director. In addition, the Dean provides leadership for interdisciplinary collaboration, and works with the Office of Institutional Advancement on fund-raising.

The Dean, who reports to the Provost, works with other Deans and college administrators and serves as a member of the President's Cabinet. The Division of the Schools of the Health Professions is located at the Brookdale Health Science Center at 425 East 25th Street.

QUALIFICATIONS: Candidates must have an earned doctorate and a record of scholarly research, publication, and professional or other accomplishments; and administrative experience in academic and/or health settings. The candidate should merit appointment at the rank of Professor in one of the disciplines offered in the Division of the Schools of the Health Professions. Interdisciplinary health experience is highly desirable.

SALARY: \$89,762-\$103,000, Commensurate with qualifications.

START DATE: July 1, 1999.

SEND RESUME TO: Charles E. Hayes, Director of Human Resources, E1502, Hunter College, 695 Park Avenue, New York, NY 10021.

HUNTER COLLEGE IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER. PROTECTED GROUP MEMBERS, WOMEN, DISABLED PERSONS AND VIETNAM ERA VETERANS ARE ESPECIALLY ENCOURAGED TO APPLY FOR THIS AND OTHER POSITIONS AVAILABLE AT THE COLLEGE.

POST-DOCTORAL POSITION DEVELOPMENT OF MEMORY T CELLS

Available immediately to investigate the requirements for cytotoxic T cell memory. Studies will involve generating new mouse models, using transgenic and ES cell technology, to study memory development. A background in molecular biology is essential and an interest in immunology advantageous.

Please send curriculum vitae and names of three references to: Philip G. Ashton-Rickardt, Ph.D., The University of Chicago, Gwen Knapp Center for Lupus and Immunology Research, 924 East 57th Street, R414, Chicago, IL 60637-5420. PHONE: 773-702-7669. FAX: 773-702-1576. E-mail: p-ashton@bio-3.bsd.uchicago.edu



THE UNIVERSITY OF CHICAGO

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Equal Opportunity Employer.**



United States Environmental Protection Agency National Exposure Research Laboratory Human Exposure and Atmospheric Sciences Division

The U.S. Environmental Protection Agency (EPA) is seeking highly qualified senior scientific/engineering candidates for the **Director of the Human Exposure and Atmospheric Sciences Division (HEASD)**, National Exposure Research Laboratory (NERL) located at Research Triangle Park (RTP), North Carolina. The NERL is responsible for conducting research and development related to the exposure of people and ecosystems to a wide range of pollutants in the air, water, and soil, and to other environmental changes resulting from human activities at a wide range of scales. The HEASD conducts intramural and extramural research to characterize exposures, across the whole of the exposure assessment paradigm from pollutant source to the dose delivered to the exposed person or receptor. The principal foci of the Division's research are human exposure to chemical pollutants and atmospheric sciences. The Division's research mission encompasses aspects of all components of the exposure assessment paradigm, including exposure/source research; atmospheric processes modeling research; environmental characterization research, including characterizing microenvironmental concentrations/exposures, and defining the critical routes of exposure; exposure analysis research; and exposure/dose research. The human exposure research has both modeling and measurement aspects. It focuses on exposures to susceptible subpopulations and includes field studies of total exposure measurements, the development of probabilistic human exposure models, and the linkage of these models to environmental process models and dose models to achieve source-to-dose models. The atmospheric sciences portion of HEASD's research includes the development and application of instruments and methods to measure atmospheric pollutants and their precursors; chamber and kinetics studies of the chemistry of air pollutants; the development of source apportionment techniques; and the comprehensive profiling of emissions from on- and off-road mobile sources burning gasoline with and without fuel additives.

The Director of HEASD plans, develops, organizes, directs, and implements a highly technical and complex research and development program that has nationwide impact with an annual budget in excess of \$25M and a staff of approximately 130 employees located in RTP and Las Vegas, Nevada. The Director and scientists under the Director's supervision are the Agency's experts in the area of multipathway, multimedia human exposure to environmental contaminants and atmospheric sciences, measurement methods, chemistry, and source characterization; and, therefore, they interact and represent the Agency to a large community of scientists, both nationally and internationally, as well as to the general public and legislative leaders. Ultimately, the research performed will provide an understanding of the critical factors to be considered in developing and implementing programs for the protection of the public's health.

The preferred candidate for this position will have a doctoral degree in one of the biological, physical, or mathematical sciences or in an engineering field. Candidates must also have scientific expertise in either atmospheric sciences or human exposure to chemicals and have demonstrated leadership in scientific management of state-of-the-art programs in atmospheric sciences or human exposure to chemicals. In addition, applicants must meet the executive and technical qualifications described in the vacancy announcement. **Salary ranges from \$104,577 – \$114,486 per annum**, commensurate with the level of appointment in the Senior Executive Service.

To apply for this position, you must obtain a copy of the vacancy announcement and submit an application containing all the requested information by the closing date of the announcement. **All applications for this position must be postmarked by 9/25/98.** The vacancy announcement may be obtained by calling or writing Ms. Karen Stinson (202) 260-6374, U.S. EPA, Executive Resources & Special Programs (3641), 401 M Street S.W., Washington, DC 20460. The announcement may also be viewed on the Office of Research and Development's Internet Site at <http://www.epa.gov/ord/>.

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Protechnology.

Promega.

Promega, a global leader in the biotechnology industry, is currently recruiting for R&D as well as Production Scientists to join us at our World Headquarters located in Madison, Wisconsin.

R & D POSITIONS

SENIOR SCIENTIST - NEUROTARGETING/NEUROBIOLOGY

You will provide the fundamental expertise in neuroscience to a team focused on developing the technology of targeting molecules to specific cells. A Ph.D. in Neurobiology, experience in cultivation of primary neuronal cell cultures and 2-4 years of postdoctoral training in a related field are required. Preference will be given to candidates with a strong background in molecular biology.

SENIOR SCIENTIST - NEUROTARGETING - ENZYMOLOGY/BIOCHEMISTRY

A Ph.D. in Enzymology and/or Biochemistry and experience with protein purification and protein analysis techniques are essential. Experience in developing biochemical assays for inhibition or activation of enzymatic activity is a must. Candidates with experience working on purification and characterization of metalloproteases is preferred.

SENIOR SCIENTIST/PROJECT MANAGER - GENETIC REPORTERS

You will lead product development of new reporter systems. A Ph.D./postdoctoral experience in cell biology, molecular biology, or biochemistry; 2 to 3 years' industrial experience in project management and personnel supervision; and proficiency in cell culture technology, creation of stable transgenic cell lines and assay design and validation are required.

RESEARCH SCIENTIST - GENETIC REPORTERS

You'll support product development of new reporter systems. A Master's degree in Cell Biology, Molecular Biology, or Biochemistry or equivalent work experience; and technical proficiency in molecular biology and cell culture techniques (including transient transfections and maintaining cultures of stable transformed cells) are required. Preference will be given for prior industrial experience.

SCIENTIST - NEUROTARGETING

An MS degree in Life Sciences and a minimum 2-3 years of laboratory experience using DNA sequencing/cloning and vector construction techniques are essential. High attention to detail, demonstrated creative problem solving skills and experience implementing medium to complex experimental design with controls are also essential.

SCIENTIST - BACULOVIRUS

You will develop products and evaluate new technologies related to recombinant protein expression, especially expression in baculovirus-infected insect cells. A BS/MS degree in a scientific discipline or equivalent, 5-8 years' experience with a BS, or 2-5 years with an MS is required. Demonstrated working knowledge of scientific principles and technical expertise in insect cell culture and baculovirus expression of recombinant proteins are essential.

PRODUCTION POSITIONS

GROUP MANAGER IN PRODUCTION

You will direct the day-to-day production of products within the production group and meet all objectives for inventory due dates for products produced in the functional area. A BS in Molecular Biology, Biotechnology, Microbiology or related discipline as well as 5-8 years' experience in production and process/systems optimization in a health science, biotechnology or pharmaceutical manufacturing environment is required. A minimum 5 years' supervising experience is essential as well as working knowledge and/or experience with molecular biology/in vitro translation techniques. A background leading projects; a working knowledge with biologicals manufacturing QC systems; and proven project leadership skills/accomplishments are also required.

PRODUCTION SCIENTIST - TRANSCRIPTION, TRANSLATION & MOLECULAR BIOLOGY KITS

You'll manufacture and quality test components/kits and support new product transfers within the product area. A BS/MS degree in Molecular Biology, Microbiology, Biochemistry or related field is required. Three to four years' post-graduate experience in manufacturing, R&D, or Quality Assurance; a proven record of experimental design and problem solving; outstanding organizational and multi-tasking skills; and the ability to manage several projects and/or products while keeping several assays going simultaneously are essential.

For confidential consideration, please mail or e-mail your CV, indicating the position title of interest in the cover letter, to **Promega Corporation, Human Resources, 2800 Woods Hollow Rd., Madison, WI 53711. E-mail: hr@promega.com. EOE**

For additional information, please visit our website at **www.promega.com**



Promega

ANNOUNCEMENT

Program Announcement

University of California San Francisco
Molecular Design Institute



Corporate Scholars Program

1998-1999

MEETINGS

"Mechanisms of Tumor Growth and Invasion Mediated by Proteolysis"
chaired by Professors Shuman, Craik, McKerrow, and Werb
November 5-6, 1998

"Structure and Design of Synthetic Gene Carriers"
chaired by Professor Szoka
Philip Felgner and Leaf Huang
February 24-26, 1999

"DOCK: Applied Structure-Based Drug Design"
chaired by Professor Kuntz
April 16-17, 1999

"Protein Sequence, Structure, and Function"
with the
Department of Pharmaceutical Chemistry
chaired by Professors Kollman, Dill, and Kuntz
April 23-24, 1999

Outstanding scientists from academia and from pharmaceutical and biotechnology industries are invited to participate in scientific meetings sponsored by the Corporate Scholars Program of the UCSF Molecular Design Institute. To register for individual events and to learn about visits-in-residence and other benefits of corporate membership visit the web at <http://mdi-10.ucsf.edu/csp> or contact Professor I.D. Kuntz, Director of the Molecular Design Institute or Dr. Judith C. Hempel, Director of the Corporate Scholars Program (email: jhempel@cgl.ucsf.edu, tel: 415.502.8396; fax: 415.502.8397).



UNIVERSITY OF CALIFORNIA SAN FRANCISCO

MOLECULAR DESIGN INSTITUTE
Box 0446, Room U-64
San Francisco, CA 94143

<http://mdi.ucsf.edu>



College of Medicine University of Kentucky Faculty Positions

The College of Medicine has an extraordinary opportunity to expand its research strength in biomedical sciences through the new Research Challenge Trust Fund Program. Under the auspices of this program, the College will hire a number of tenure-track or tenured, distinguished scientists at the assistant, associate, or full professor level.

Creative, successful individuals who want to contribute to vibrant, growing research programs within a comprehensive Medical Center and participate in the teaching and service missions of the University are invited to apply. Successful candidates at a tenured level are expected to possess established, externally funded research programs, and successful candidates at the tenure-track level are expected to develop and maintain innovative, externally funded research programs. Competitive start-up funds, state-funded salary commensurate with experience, and modern research facilities will be provided. Special consideration will be given to applicants who complement existing departmental strengths and who will contribute to clinical research in the College of Medicine, the Sanders-Brown Center on Aging, and the Markey Cancer Center.

Applicants must have a Ph.D. and/or M.D. or equivalent degree and should have at least two years of postdoctoral experience. Interested individuals should send a curriculum vitae, a summary of past experience, future research plans, and arrange for three letters of recommendation to be sent to the appropriate search committee chair noted below. Applicants are invited to view the College of Medicine's Web page where information about these positions is also listed.

<p>DEPARTMENT OF ANATOMY AND NEUROBIOLOGY</p> <p>Full or Associate Professor in neuroscience and aging with a research emphasis on the CNS systems underlying Parkinson's disease and other movement dysfunctions. Search Committee Chair: Dr. Don M. Gash.</p> <p>Full or Associate Professor in neuroscience with a research emphasis on CNS processes underlying neuronal cell death, regeneration, and recovery of function following injury to the spinal cord and/or brain. The individual should possess the leadership and research skills to organize a Spinal Cord and Brain Injury Research Center. Search Committee Chair: Dr. David Watt.</p> <p>Full, Associate, or Assistant Professor in neuroscience with a research emphasis on neuroplasticity, regeneration, and recovery of CNS function. Search Committee Chair: Dr. Don Gash.</p> <p>Assistant Professor in neuroscience with a research emphasis on the molecular signal transduction pathways involved in development, aging, neuronal injury, and/or neuroprotection in the central nervous system systems. Search Committee Chair: Dr. Mark Mattson.</p> <p>Applications and nominations should be sent to the appropriate search committee chair, Faculty Search Committee, Department of Anatomy and Neurobiology, MN224 Chandler Medical Center, University of Kentucky, Lexington, KY 40536-0298; telephone (606)257-5036; FAX (606)323-5946.</p>	<p>DEPARTMENT OF BIOCHEMISTRY</p> <p>Full or Associate and Assistant Professor (two positions) in the area of structural biology/proteomics with interests in applying physical, chemical, or biochemical approaches such as protein engineering, X-ray crystallography, experimental protein chemistry, or NMR spectroscopy to the study of molecular mechanisms. The Full or Associate Professor will serve as the leader of the Center for Structural Biology at the University of Kentucky. Search Committee Chair: Dr. Thomas Vanaman.</p> <p>Assistant Professor in the area of molecular genetics/genomics including molecular epidemiology, studies of genetic markers of human disease, bioinformatics, and experimental models of gene expression. Search Committee Chair: Dr. Daniel Noonan.</p> <p>Assistant Professor in the area of signal transduction mechanisms relating to cell cycle regulation, development, environmental response, or intracellular communication. Search Committee Chair: Dr. Robert Dickson.</p> <p>Applications and nominations should be sent to the appropriate search committee chair, Faculty Search Committee, Department of Biochemistry, MS607 Chandler Medical Center, University of Kentucky, Lexington, KY 40536-0298; telephone (606) 323-5549; FAX (606) 323-1727 or (606) 323-1070.</p>
<p>DEPARTMENT OF PHYSIOLOGY</p> <p>Assistant Professor in signal transduction mechanisms in cardiovascular and/or pulmonary function and their responses to inflammation in cardiac or respiratory diseases such as atherosclerosis or asthma.</p> <p>Assistant Professor in mechanisms of neuronal and glial repair and injury after brain or spinal cord trauma.</p> <p>Assistant Professor in molecular genetics of ion channels and ionic signaling in excitable cells.</p> <p>Assistant Professor in molecular aspects of female reproductive science including the relationship of gender to physiological function.</p> <p>Applications and nominations should be sent to Dr. Phyllis Wise, Faculty Search Committee, Department of Physiology, MS509 Chandler Medical Center, University of Kentucky, Lexington, KY 40536-0298; telephone (606) 323-6045; FAX (606) 323-1070.</p>	<p>DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY</p> <p>Full or Associate Professor and Assistant Professor (two positions) in molecular viral pathogenesis, viral-host interactions, or the host immune response to viral infections. Search Committee Chair: Dr. Jerold Woodward.</p> <p>Assistant Professor in molecular genetics/genomics with an emphasis in tumor biology. Search Committee Chair: Dr. Bret Spear.</p> <p>Associate or Assistant Professor in microbial pathogenesis/host-parasite interactions with special emphasis in parasitology, mycology, or the host immune response to microbial infections. Search Committee Chair: Dr. Carol Pickett.</p> <p>Applications and nominations should be sent to the appropriate search committee chair, Faculty Search Committee, Department of Microbiology and Immunology, MS415 Chandler Medical Center, University of Kentucky, Lexington, KY 40536-0298; telephone (800) 462-5257; FAX (606) 257-8994.</p>

The search committees will begin reviewing applications by October 15, 1998, and will continue until the positions are filled. *Women and minority candidates are encouraged to apply. The University of Kentucky is an Affirmative Action/Equal Opportunity Employer.*



Innovative. Progressive. Responsive. This best describes our philosophy at Novartis Pharmaceuticals Corporation. Resulting from the merger of Ciba and Sandoz, Novartis is now the largest pharmaceutical company in the world. And we will continue to grow by discovering, researching, developing and manufacturing innovative prescription drugs that treat a wide variety of diseases and conditions (including organ transplantation, cardiovascular diseases, schizophrenia, cancer, epilepsy and arthritis)...we are helping millions of people live longer, healthier lives. To do this effectively, we are investing over \$1 billion annually in pharmaceutical research and development.

We are also dedicated to providing a stimulating environment that is conducive to professional growth. We invite you to investigate the following opportunities at our state-of-the-art northern New Jersey location:

Postdoctoral Fellow Computer Aided Molecular Modeling Research

With a focus on Core Technologies, you will conduct studies involving de novo protein structure prediction methods; as you enhance your expertise in some area (such as using sequence based NMR restraint and/or other approaches to develop tertiary and quaternary structural models to predict topological elements, domain regions, folding patterns, surface residues, loop structures, etc.) through critical reviews and examination of alternate approaches and testing with in-house protein projects. Qualifications include a Ph.D. in Chemistry, Molecular Biology, Biochemistry or a related discipline, along with a high level of expertise in de novo protein structure prediction or protein homology modeling; extensive and critical knowledge of other approaches is expected. Skills in the use of common Computer Aided Molecular Design resources within a UNIX environment are required; knowledge of biophysical principles and literature of protein structure is essential. Strong interpersonal skills are important. Our postdoctoral assignments, which encourage creative thinking and offer ample opportunities for publication and research presentation, are for one year and may be renewable for a second year by mutual agreement.

PRINCIPALS ONLY: send your resume/curriculum vitae and letter of interest, indicating GC-PD068 on resume AND envelope, to: R&D Staffing, Novartis Pharmaceuticals Corporation, 556 Morris Avenue, Building G2, Summit, NJ 07901. We are an equal opportunity employer M/F/D/V. We appreciate your interest in our Company. Unfortunately, we will only be able to respond to those candidates chosen for interviews or additional follow-up.

Genomics Research

Development of disease fighting drugs used to be a matter of searching for and screening millions of compounds for therapeutic efficacy. Today, the hunt for new drugs and therapies lies within the cells...in the genes.

Lexicon Genetics Incorporated, located just north of Houston in The Woodlands, Texas, is a genomics pharmaceutical company focusing on new approaches to gene targeting and gene trapping in the quest for the discovery of novel gene-based therapeutics. To advance our programs in homologous recombination and OmniBank(TM), we seek to fill the following positions:

Scientist/Post Doctoral Fellow

We seek a Ph.D. whose skill set includes cDNA cloning, library screening, PCR and computer proficiency. We require some post doc experience in a molecular biology research lab. Some leadership/supervisory experience is also preferred.

Scientist/Post Doctoral Fellow

This position requires a Ph.D. with library screening and sequencing software knowledge. Some post doc experience in a molecular biology research lab is also required. Knockout experience is preferred.

Veterinary Pathologist

We seek a Pathologist to work in our new 35,000 square foot mouse facility. Work experience in a mouse facility/research setting is required.

We provide competitive salaries and benefits. Please send your resume and cover letter, indicating area of interest, to: **HUMAN RESOURCES, LEXICON GENETICS INCORPORATED, 4000 Research Forest Drive, The Woodlands, Texas 77381. Fax (281) 364-0155. Or, email to: tthompson@lexgen.com. E.O.E.**



Predoctoral and Postdoctoral Training Opportunities Molecular Biology of Toxic Dinoflagellates The Center of Marine Biotechnology University of Maryland Biotechnology Institute

The Center of Marine Biotechnology (COMB) is one of four interdisciplinary research centers of the University of Maryland Biotechnology Institute. Housed in state-of-the-art facilities at the Columbus Center in Baltimore's Inner Harbor, COMB's location facilitates scientific interactions with University of Maryland and Johns Hopkins faculty, as well as governmental scientists (USDA, FDA, NIH). Investigators also benefit from collaborations with scientists from the dynamic and expanding commercial biotechnology sector in Maryland.

Graduate student and postdoctoral training positions are available to conduct research under a broad focus designed to understand the molecular biology of toxic dinoflagellates, specifically *Pfiesteria piscicida* and related species. Applicants should possess the requisite background in molecular biology, biochemistry, genetics, or microbiology appropriate to the specific laboratory. Additional information is available through the COMB website (www.umbi.umd.edu/~comb) or by e-mail to a principal investigator.

Dinoflagellate Culture

Cell biology of toxic dinoflagellates, including *in vitro* culture, physiology, and toxigenicity.

Gerardo Vasta (vasta@umbi.umd.edu)
Yonathan Zohar (zohar@umbi.umd.edu)

Genetic Characterization and Molecular Probes

Genetic characterization of toxic dinoflagellates, focused on molecular taxonomy, and development of molecular probes.

Gerardo Vasta (vasta@umbi.umd.edu)

Biochemistry of Toxin Elicitors

Biochemistry and molecular biology of those molecules that elicit dinoflagellate toxin production with emphasis on chemotactic behavior.

Allen Place (place@umbi.umd.edu)

Dinoflagellate-Bacterial Interactions

Molecular biology of cell-cell communication, signal transduction, and genetic regulation involved in bacterial cell interactions with toxic dinoflagellates.

Robert Belas (belas@umbi.umd.edu)

Send résumé with faculty interest to:

**Ms. Tyra Burman
Center of Marine Biotechnology
Columbus Center
701 East Pratt Street
Baltimore, MD 21202**

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Be at the forefront...

....of drug discovery and development with DuPont Pharmaceuticals Company. We are focused on meeting unmet medical needs through the discovery and development of innovative compounds leading to novel pharmaceuticals. We have immediate openings at our facilities in Wilmington, DE for the following:

Senior Research Scientists - Inflammatory Disease Research

* One position requires a candidate with demonstrated experience and expertise in studying cellular signaling systems with an emphasis in inflammatory and immune cell signal transduction. **Code: SD-JT1**

* The ideal candidate for the other position must have demonstrated experience and expertise in intracellular receptor biology with an emphasis on receptor characterization and receptor/ligand interactions. **Code: SD-JT2**

Candidates for the above openings will be responsible for designing systems to evaluate and discover drugs for treating various diseases. An M.D./Ph.D. with expertise in molecular biology, biochemistry and cell biology is required.

Associate/Staff Scientist - Inflammatory Disease Research

The ideal candidate must be familiar with techniques for harvesting and culturing mammalian cells. Experience is also required in performing quantitative assays for growth and function and evaluating gene expression by Northern blotting/in situ hybridization and immunochemical blotting/staining. Candidate must be able to design, implement and interpret results from relevant experiments that contribute to overall project goals. Candidate should also have excellent writing and communication skills, and be willing to work with interdisciplinary teams on discovery projects related to inflammatory diseases. A BS/MS degree in Biology or related field is required and a strong research background. **Code: SD-PD**

Laboratory Information Systems Scientist

The Leads Discovery Group currently has an opportunity for an experienced, creative Information Systems Specialist to automate data capture, optimize database architecture, manage and integrate our ultrahigh-throughput data stream which will enable "real time" data analysis and visualization, data mining, and chemoinformatic prospecting activities. Additional key responsibilities include development and delivery of easy intuitive, graphical user interfaces for retrieval, analysis and dissemination of uHTS data in an Intranet environment.

Experience with "open architecture" LIMS/LAN for automation of data tracking, capture, and transfer from laboratory instruments to ORACLE, as well as custom programming of interfaces and scripts is required. Understanding of RDMS and ORACLE, familiarity with statistics, and data mart and data warehousing is preferred.

Well-developed communication skills and an end-user focus are essential, as input and direct involvement with biologist and chemists is expected. A BS/MS in chemistry, biology, or engineering is required and experience with a pharmaceutical company is preferred. Programming ability in Oracle PL/SQL, C++, Visual Basic, ActiveX, MS-Access/Excel, UNIX, JAVA and familiarity with other Web-based tools, and ISIS/MDL would be advantageous. **Code: EG-LISS**

Discovery Toxicology Senior Research Scientist

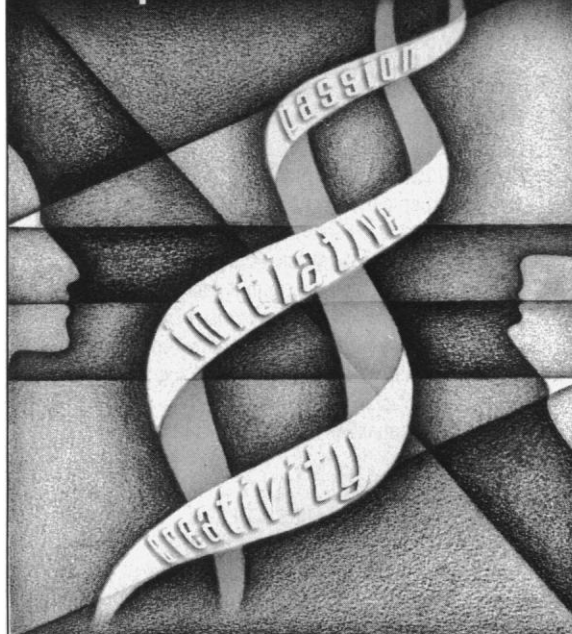
Qualified applicant will have a Ph.D. with additional postdoctoral experience to address investigative toxicology issues at the cellular level. Applicants should have expertise in cell and molecular biology and biochemistry. Expertise in microchip array, differential display and other quantitative molecular biology technologies are sought. **Code: CR-BC**

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, including salary history and indicating position code, to: Human Resources-(code), DuPont Pharmaceuticals Company, Experimental Station, 400/2413, P.O. Box 80400, Wilmington, DE 19880-0400. An equal opportunity employer M/F/D/V.

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DuPont Pharmaceuticals Company

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Genentech, Inc.

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extraordinary science

Genentech's people share some pretty uncommon traits. Not surprising when you consider the scope of our mission – creating breakthrough medicines for conditions like cystic fibrosis, stroke, growth disorders, cancer and heart attacks. It demands a very special kind of person. Someone who will take risks, accept responsibility and constantly seek creative solutions.

Do you have the traits to contribute to making our vision of longer, healthier lives for thousands of people a reality? Consider what you expect from a career and from yourself. Expect the extraordinary? Then share your traits with us.

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Scientist/Associate Scientist

Genentech's Analytical Chemistry department has responsibilities for supporting product development, including the determination of protein/glycoprotein structures, the identification of variants and degradation products, and analytical methods development. The successful Scientist/Associate Scientist candidate will have a PhD in Biochemistry or a related field, with training in analytical protein chemistry techniques and an emphasis on MALDI-TOF mass spectrometry instrumentation and applications. Candidates should have a track record that includes the development of novel approaches for covalent structures or to improve MALDI-TOF/MS sensitivity. Data management skills are also desired.

We offer progressive benefits. Send your resume, indicating Job Code SCI827, to: Genentech, Inc., Human Resources, PO Box 1950, South San Francisco, CA 94083-1950. Plain typefaces. No faxes. E-mail your resume to jobs@gene.com (ASCII files only with a maximum line width of 76 characters). EOE.

LOVELACE RESPIRATORY RESEARCH INSTITUTE

Lung Cancer Biologists and Respiratory Immunologists

Lovelace Respiratory Research Institute, the nation's only Institute dedicated to eradicating respiratory diseases through research aimed at understanding their causes and biological mechanisms, is committed to recruiting new junior and senior staff members to study mechanisms underlying lung cancer development, pulmonary immunology, and asthma.

The lung cancer program presents a unique opportunity for scientists to conduct both independent and highly interactive research. With strong affiliations at the University of New Mexico and Veterans Hospital, it is possible to conduct research using both animal models and human subjects and to actually translate findings in the laboratory to the clinic. Moreover, strong ties with the Epidemiology Department at the University of New Mexico allow opportunities to also conduct population-based research. The Lung Cancer Program is multidisciplinary but with a focus on applying research discoveries ultimately to early detection and intervention. Areas of research needed to enhance the program include but are not limited to angiogenesis, nuclear transcription factors, and chemointervention.

The immunology program is focused on recruiting scientists who have research experience in the basic mechanisms of the development of immune and/or inflammatory responses in the lung as well as in the roles of these responses.

Successful candidates will be provided with an excellent start-up package. Send cover letter indicating research interests and resume in complete confidence to **Dr. Steven Belinsky, Director of the Lung Cancer Program (refer to Job #S798) or Dr. David Bice, Director of Immunology Program (refer to Job #S698), Lovelace Respiratory Research Institute, P.O. Box 5890, Albuquerque, NM 87185 or by e-mail to hmail@lrri.org, Dr. Belinsky or Dr. Bice.**

We are an Equal Opportunity Employer.



UNIVERSITY OF
WISCONSIN
MADISON

Postdoctoral Fellowships in CNS Remyelination

A number of positions at the postdoctoral fellowship or assistant scientist level are available in studies on transplantation of myelinating cells into the CNS. The long-range goal is to use such approaches in the treatment of human myelin disorders. The area of work includes development of human glial cells *in vitro* for transplant purposes, the effect of inflammation and gliosis on transplanted cells, the ability of the mature CNS to be repopulated by glia, the immunological response of the CNS to transplanted glia, and the use of Schwann cells or olfactory bulb ensheathing cells to remyelinate the CNS. Previous training should include a combination of experience in CNS transplantation (or other microsurgery), CNS cell culture, immunology of transplantation, molecular neurobiology. Salary dependent upon experience. Please send a statement of research interests and experience, a CV, and the names of three referees to **Dr. Ian D. Duncan, University of Wisconsin, 2015 Linden Drive West, Madison, WI 53706. Fax (608) 265-8008. Inquiries (608) 263-9828. EOE/AA.**

MANUFACTURING

VICAL Inc., a leader in the development of gene-based pharmaceutical products for human gene therapy, has an immediate opportunity for the following:

MANAGER OF MANUFACTURING

The selected individual will manage the manufacture of clinical supplies and the development of contract suppliers, including the selection, negotiation and validation processes. In addition, this individual will provide input towards a team effort of process improvement and will work with the Regulatory Affairs department to assemble reports for submission.

Requires a Bachelor's degree in a Biological Science (advanced degree preferred); and 5+ years of industrial pharmaceutical manufacturing experience under GMP regulations. Previous experience bringing a product to the registration phase is a plus.

For consideration, please send your resume to: Human Resources Dept., VICAL INC., 9373 Towne Centre Drive, Ste. 100, San Diego, CA 92121; or Fax to: (619) 646-1350. EOE M/F/D/V.



Tenure-Track Faculty Position Department of Anatomy and Cell Biology

The Department of Anatomy and Cell Biology, chaired by **Harvey B. Pollard, Ph.D., M.D.**, at the Uniformed Services University (USU) School of Medicine, Bethesda, MD, invites applications for a tenure-track position at the Assistant or Associate Professor level. The position is a 12-month appointment. Applicants should have a Ph.D. and/or M.D. degree, a strong record of outstanding scientific accomplishment. The successful applicant will contribute to the Department's award-winning teaching programs for Medical and Graduate Students. Outstanding core facilities are available for state-of-the-art EM and optical imaging, molecular biology, and veterinary science. See our World Wide Web site for further details (<http://www.usuhs.mil>). Affiliations with the Department's Institute for Molecular Medicine, Center for Circadian Research, and with other basic science and clinical departments in the School of Medicine are added opportunities for prospective faculty members. Applicants should send a complete curriculum vitae and bibliography, an outline of their proposed research program, and should ask three individuals to send letters of reference to:

Department of Anatomy and Cell Biology Search Committee, Uniformed Services University of the Health Sciences, F. Edward Hébert School of Medicine, 4301 Jones Bridge Road, Bethesda, MD 20814-4799.

Applications must be received by **October 1, 1998**. Foreign nationals will only be considered if qualified United States citizens are not available.

USUHS is an Equal Opportunity Employer with a strong commitment to racial, cultural, and ethnic diversity.

SmithKline Beecham, an international manufacturer of pharmaceuticals and consumer healthcare products, has the following positions available at our research and development facility in Collegeville, PA:

INVESTIGATOR, MICROBIAL BIOCHEMISTRY

The individual we are seeking should have a background in antibacterial research. Principal duties are to conceive, plan, initiate and direct molecular biological and microbial biochemical antibacterial research, particularly in the area of cell wall biosynthesis and signal transduction pathways, with the aim of identifying new compounds that inhibit bacterial targets.

Position requirements are a Ph.D. in Biochemistry and at least 18 months experience in microbial biochemical and molecular biological antibacterial research including experience in: (i) analyzing proprietary and public DNA and protein databases using computer software programs such as GCG and Lasergene; (ii) cloning and expressing DNA sequences; encoding potential antibacterial

targets; (iii) utilizing molecular biological methods and techniques including PCR, agarose gel electrophoresis, DNA extraction, purification, ligation, transformation and sequencing to clone and express DNA sequences; (iv) utilizing FPLC, protein concentration and freeze drying to purify overexpressed proteins; (v) utilizing polyacrylamide gel electrophoresis, limited proteolysis, radioactive phosphorylation and phosphorimaging to characterize purified proteins; and (vi) designing and implementing assays, including radioactive filtration assays, for use as high throughput screens in microtitre plate format and assays for phosphate production. **Send responses to: Attn: Dr. John Lonsdale, UP1345**

INVESTIGATOR, ANTI-INFECTIVES

The individual we are seeking will have a background in gene expression research. Principal duties are to conceive, plan, initiate and direct research to identify and express gene targets for screening of potential anti-bacterial drug compounds; clone genes and express, purify and analyze proteins in prokaryotic systems utilizing various state-of-the-art methods and techniques including microbial genome screening, gene isolation and cloning into expression vectors using restriction enzymes and polymerase chain reaction (PCR), cell fractionation, polyacrylamide gel electrophoresis, Western blotting, affinity chromatography, and enzyme assays; design and format cell-based protein function or activity assays for use in high throughput screening for drug candidates; develop novel gene expression systems; analyze proprietary and public gene and protein databases to identify and investigate novel targets in microbial genomics; utilize various computer programs and applications, including GCG, Lasergene and Web-based search applications; provide scientific direction and leadership to one Senior Scientist and one Scientist; prepare and present written and oral reports to senior management and,

where appropriate, submit findings for publication in scholarly professional journals.

Position requirements are a Ph.D., or equivalent, in Molecular Biology or Microbiology and three (3) years of experience in the job offered or in gene expression technologies which shall include experience in gene expression research utilizing gene expression technologies including: (i) cloning of genes and expressing of proteins in prokaryotic systems; (ii) genomic screening; (iii) gene isolation; (iv) gene cloning into expression vectors; (v) PCR; (vi) cell fractionation; (vii) polyacrylamide gel electrophoresis; (viii) Western blotting; (ix) affinity chromatography; must also have three (3) years experience in the design and formatting of protein function or activity assays for use in high throughput screening for drug candidates and the development of novel gene expression systems. Competence in the analysis of gene and protein databases utilizing computer programs and applications, including GCG, Lasergene and Web-based search applications, is required. **Send responses to: Attn: Dr. David Payne, UP1345**

SmithKline Beecham offers a competitive compensation/benefits package. For confidential consideration, please forward your resume and salary requirements to: SmithKline Beecham Pharmaceuticals, (appropriate contact person from above), 1250 S. Collegeville Rd., Collegeville, PA 19426. We are an equal opportunity employer, M/F/D/V.



SmithKline Beecham
Pharmaceuticals



ASSOCIATE AREA DIRECTOR

Three Senior Executive Positions with the U.S. Department of Agriculture

Associate Area Director, Beltsville Area,
Beltsville, MD, Announcement ARS-SES 98-2

Associate Area Director, Southern Plains Area,
College Station, TX, Announcement ARS-SES-98-3

Associate Area Director, Northern Plains Area,
Ft. Collins, CO, Announcement ARS-SES-98-4

The incumbent participates fully with the Area Director in the management of research programs that involve a wide variety of highly specialized scientific disciplines. These include microbiology, zoology, entomology, botany, plant pathology, plant physiology, genetics, soil science, agronomy, chemistry, agricultural engineering, and veterinary medical science. Positions require considerable flexibility and skill in providing effective research leadership to a wide variety of diverse programs and in developing systematic, coordinated plans to achieve broad goal-oriented research results and fully utilizing available resources. The incumbent must also establish and maintain effective work relationships with Federal and State agencies, cooperators, and representatives of industry and consumer groups. Salary \$105K-\$125K.

For program information contact:

Phyllis Johnson (301) 504-6078 (Beltsville);
Chuck Onstad (409) 260-9346 (College Station);

Will Blackburn (970) 229-5557 (Ft. Collins).

The complete vacancy announcement and information about how to apply is found at <http://www.ars.usda.gov/afm/hrd/vacancy/vac2.html>. Or contact **Human Resources Division Telephone: (301) 504-1448**. Applications must be received by September 30, 1998.

USDA/ARS is an Equal Opportunity Employer.

Incyte Pharmaceuticals, Inc., is a leading provider of an integrated platform of genomic technologies designed to aid in the understanding of the molecular basis of disease. Incyte's platform includes database products, genomic data management software tools, and related reagents and services which, Incyte provides to the pharmaceutical and biotechnology industries to assist their drug discovery and development efforts.

Bioinformatics Scientist / Specialist

You will integrate multiple sources of information (medical literature, internal and external databases, various bioinformatics tools) to prioritize genes for SNP discovery and prioritize SNPs for further investigation. You will provide sets of SNP data for internal and external customers. You will also maintain close communication with multiple departments and projects, and participate in strategic decisions. Requires MS or higher degree in medical/biological sciences coupled with experience in using bioinformatics tools, public databases, and PERL. Must have in-depth knowledge of medical/biochemical gene pathways and functions and understanding of programming and sequence analysis concepts. Must be a team player and have excellent communication skills.

If you recognize these qualities in yourself, we want to hear from you. Incyte offers competitive salaries, an outstanding benefits package and significant opportunities for professional growth. Mail/Fax your resume to Incyte Pharmaceuticals, Attn: HR, REF:SD1872MM, 3174 Porter Drive, Palo Alto, CA 94304. FAX: (650) 845-4176. E-mail: employ@incyte.com. EOE. Website: www.incyte.com



I N C Y T E
P H A R M A C E U T I C A L S , I N C .



SCIENTIST MOLECULAR BIOLOGY

IDEC Pharmaceuticals is a leader in the development of immunologically active monoclonal antibodies for therapeutic applications in the area of certain cancers and autoimmune disorders. We pride ourselves in the excellence of our team members and invite you to join us.

This scientist will draw on his/her expertise in molecular and cell biology to assist us in our product development efforts. Responsibilities include: design, execution, and review of complex experiments; use of complex laboratory techniques; and strategic input into development of novel compounds of pharmaceutical value in the areas of oncology or autoimmunity.

We seek candidates with a relevant scientific Ph.D. or equivalent with two or more years of relevant postdoctoral experience. Demonstrated scientific proficiency, leadership, creativity, and critical thinking are essential, as are excellent interpersonal and communication skills.

We offer excellent salary, benefits, and working conditions. Please send resume with salary history to: IDEC Pharmaceuticals Corp., MB Ad, 11011 Torreyana Rd., San Diego, CA 92121. EOE.

IDEC
Pharmaceuticals Corporation

Light Years Ahead



Bristol-Myers Squibb

Pharmaceutical Research Institute

Bristol-Myers Squibb Pharmaceutical Research Institute is a recognized leader in discovering and developing novel, cost-effective pharmaceutical therapies that improve health and quality of life. We invite you to join our highly collaborative multi-disciplinary team in the following areas:

Lead Discovery

Research Investigators

We are seeking 2 highly motivated Ph.D.s with experience in cell biology, biochemistry or molecular biology to join our assay design group in Lead Discovery. These candidates will engage in developing fluorescent-based functional assays for ion channels and receptors or in developing in vitro assays using scintillation proximity and fluorescent technology for screening. **Code: PRHD49JH1**

Research Investigator

Ph.D. familiar with standard techniques in molecular biology and biochemistry required, as well as a strong cell culture background. Experience with laboratory robotics a plus. Excellent verbal and written communication skills necessary as position requires effective interaction with various therapeutic area scientists. **Code: PRHD49JH2**

Research Investigator

Ph.D. with experience in cell biology and molecular biology to head our cell culture facility in Lead Discovery. This individual will be involved in creating permanent cell lines in collaboration with the Cellular Assay Design Group within the department. Several years experience handling/maintaining mammalian and insect cells is required. Standard robotics and fluorescent cell sorter (FACS) experience a plus. Strong written and verbal communication skills necessary as this is a very interactive position. **Code: PRHD49JH3**

Protein Chemist

Ph.D. in Biochemistry, Chemistry or related field with experience in organic synthesis and purification. You will join a team dedicated to develop, validate and perform the fluorescence labeling of peptides or proteins to support high throughput screening to identify structurally important molecules in Lead Discovery. Responsibilities for this position include: developing and optimizing reaction conditions, synthesis, purification and characterization of labeling products in small scale and large scale, communicating and collaborating with therapeutic areas and assay design specialists, and participation in assay forum design in enzyme-based assays. Strong background with HPLC, LC and UV is essential. Knowledge of molecular biology, enzymology and protein chemistry is desired. **Code: PRHD49JH4.**

Infectious Diseases

Molecular Virology/ Biochemistry

We have 2 positions available for Ph.D.s in Molecular Biology, Virology or Biochemistry and postdoctoral experience. Successful candidates will conduct independent research to define novel targets for antiviral intervention, participate in the design and/or identification of antiviral leads and collaborate with other research groups for the development of drug candidates. Experience with DNA virus replication is preferred for one of the open positions. **Code: PRCC49PL1**

Associate Research Scientist

Candidates should have a B.S./M.S. and experience in a research laboratory. Successful candidate will participate in antiviral drug discovery research. Proficiency with standard molecular biological and cell culture techniques is expected. Additional experience in biochemistry, enzymology, protein purification or recombinant protein expression is preferred. **Code: PRCC49PL2**

Bristol-Myers Squibb uses resume-scanning technology. Please submit on plain white bond paper, using standard type and fonts (no italics, graphics or staples please), with Code# to:

**Bristol-Myers Squibb Company
Pharmaceutical Research Institute
P.O. Box 5101
5 Research Parkway
Wallingford, CT 06492-7661
FAX: 203-284-7762**

Equal Opportunity Employer



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

POSTDOCTORAL POSITION SIGNALING AND MYOGENESIS

A postdoctoral position is available to study signaling and differentiation in normal and malignant myogenic cells. These NIH supported studies focus on the role of insulin-like growth factor signaling pathways in growth, survival and differentiation of normal and malignant skeletal muscle cells (J. Clin. Invest. 94:1235-1242, 1994; Cancer Res. 54:903-907, 1994; Science 277: 99-104, 1997). Candidates should have a recent Ph.D. or M.D., and a strong background in molecular biology or biochemistry.

St. Jude Children's Research Hospital (Danny Thomas Founder) is an outstanding center for biomedical research and provides an exceptional environment for scientific achievement and career development. Stipend and benefits are highly competitive.

Candidates should send a letter of interest, curriculum vitae and names of three references to: Peter J. Houghton, Ph.D., Chairman, Molecular Pharmacology, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105-2794. Fax: (901) 521-1668. E-mail: peter.houghton@stjude.org

An Equal Opportunity/Affirmative Action Employer

CHAIR Department of Physiology and Biophysics

The University of Medicine and Dentistry of New Jersey-Robert Wood Johnson Medical School (UMDNJ-RWJMS) invites applications and nominations for the position of Chair of the Department of Physiology and Biophysics.

We are seeking an individual of national stature with demonstrable leadership qualities, a substantial record of scholarly achievement, a commitment to medical and graduate education, as well as an appreciation of the integrative responsibilities encompassed by a modern Department of Physiology.

The Department of Physiology and Biophysics has the responsibility for instruction of first year medical students in physiology. The Department is housed in the Research Tower of UMDNJ-Robert Wood Johnson Medical School, located immediately adjacent to the Center of Advanced Biotechnology and Medicine, the Environmental and Occupational Health Sciences Institute and the basic science and engineering campus of Rutgers University. Further opportunities abound for interaction with RWJMS clinical departments and the Cancer Institute of New Jersey. UMDNJ-RWJMS is situated in a pleasant suburban environment centrally located close to New York City, Princeton and Philadelphia.

Nominations and applications should include a brief statement of the attributes that suit him/her for the position and a curriculum vitae. For optimal processing, applications should be received by October 1, 1998. Please send applications to: **Donald J. Wolff, Ph.D., Professor of Pharmacology, Chair of the Search Committee, c/o Susan G. Palma, Dean's Office, 125 Paterson Street, Suite 1400, New Brunswick, NJ 08901.** UMDNJ is an equal opportunity and affirmative action employer, m/f/d/v, and a member of the University Health System of New Jersey. Women and minorities are encouraged to apply.



Building a winning team

IMAGINE a place where people are dedicated to a singular goal. IMAGINE a company intensely focused on building and supporting its **PEOPLE**.

IMAGINE Pharmacia & Upjohn.

We are a global leader in the pharmaceutical industry, dedicated to helping people lead fuller and healthier lives. We are expanding on our success by **BUILDING** a winning **TEAM** of talented and **DRIVEN** people in research centers in Italy, Sweden, and the United States.

RESEARCH SCIENTIST Animal Health Research

Pharmacia & Upjohn Animal Health has a position for a scientist interested in the identification and development of new chemical entities for the animal health market. Applicants should have clinical experience in internal animal medicine and a sound understanding of research techniques. DVM (or equivalent) and/or PhD in pharmacology or related discipline, with an emphasis in veterinary pharmacokinetics, are required. Board eligibility or certification in veterinary clinical pharmacology is highly desirable.

The position involves becoming part of a team that evaluates compounds for application to animal diseases and/or improvement in the quality of animal life. The scientist will be expected to integrate the clinical aspects of animal health drugs with the basic pharmacology and pharmacokinetics required to enhance the drug discovery and development process. The responsibilities are to plan,

design, conduct, and interpret in vitro and/or in vivo drug metabolism and pharmacokinetic studies necessary for product development and registration. Candidate will be responsible for concept development, protocol writing and ensuring proper conduct of studies as well as evaluating and communicating the results. The candidate should have strong written and verbal communication skills.

Pharmacia & Upjohn offers a competitive salary and benefits. For confidential consideration please send your resume to **Pharmacia & Upjohn Ad #980554, Recruiting, 5045-88-81, 7000 Portage Road, Kalamazoo, MI 49001.** Or you may e-mail your resume (no attachments, please) to **recruit@am.pnu.com**. We are an equal opportunity employer with a commitment to workplace diversity.



Pharmacia & Upjohn

CONFERENCE

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A UNIQUE INTERNATIONAL CONFERENCE

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15 world-renowned speakers

Keynote Address: Peter G. Schultz (UC Berkeley)

Beyond Pharmaceuticals to Catalysis

Paul J. Fagan (DuPont)

Amir Hoveyda (Boston College)

Howard W. Turner (Symyx Technologies)

Combinatorial Chemistry Applications to Natural Products

Stephen J. Benkovic (Penn State)

Barry L. Marrs (Photosynthetic Harvest)

Dinner Speaker: H. Mario Geysen (Glaxo Wellcome)

Beyond Pharmaceuticals to Materials

Joseph C. Hogan Jr. (ArQule)

Joachim Kohn (Rutgers)

W. Henry Weinberg (Symyx)

Beyond Pharmaceuticals to Specialty Chemicals

David L. Coffen (ArQule)

K. Barry Sharpless (Scripps Inst.)

Characterization Technologies

Herschel A. Rabitz (Princeton)

Mike Reading (Loughborough U.)

F. Raymond Salemm (3-D Pharm)

For registration information, contact:
Engineering Outreach
University of Delaware
Newark, DE 19716-3101
phone: (302) 831-4863
fax: (302) 831-8179
e-mail:
outreach@mvs.udel.edu
Visit our web site:
www.udel.edu/eng/
DeptsPrgms/EO/
CombChem.html



National Cancer Institute
National Institutes of Health

PROGRAM DIRECTOR

COMPREHENSIVE MINORITY BIOMEDICAL PROGRAM

#CA 98-1964

Opening Date: August 10, 1998

Closing Date: September 10, 1998

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

SALARY RANGE AND BENEFITS: Salary ranges from (GS-13) \$55,969 to \$72,758 per annum. Benefits include health and life insurance, retirement, paid holidays, vacation and sick leave. Salary includes locality pay. The position has promotional potential to a salary range of (GS-14) \$66,138 to \$85,978.

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

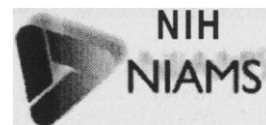
- 1) Knowledge of the scientific discipline(s) appropriate to the position and the ability to collect, organize, interpret and analyze scientific and technical information related to cancer research.
- 2) Knowledge of Federal grants, application, review and management process, including site visit planning,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

APPLICATION PROCEDURES: The NCI recruitment bulletin for this position contains complete application procedures and lists all mandatory information which you must submit with your application. To obtain the recruiting bulletin, call 1-800-728-JOBS (for local calls, 301-594-2953). When prompted, enter the "Fax ID Number" 1882 for CA-98-1964. You will be prompted for your fax 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

NIH is an Equal Opportunity Employer



PROGRAM DIRECTOR Rheumatic Diseases Branch

The Rheumatic Diseases Branch of the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), National Institutes of Health (NIH), Bethesda, MD, invites applications for the position of Program Director. The Program Director will be responsible for the scientific and administrative management of a portfolio of basic or clinical research grants and contracts in the area of arthritis and other rheumatic diseases.

Primary duties of the position include providing advice and significant technical leadership to grantees and professional staff regarding the scientific and administrative aspects of grants; reviewing and analyzing proposed research and research training, and evaluating their probable results and importance to program development; recommending funding of specific research and research training and applications; designing new scientific initiatives to promote the research mission of the NIAMS in the relevant area of arthritis; developing and organizing scientific meetings; and preparing reports on scientific advances and activities for members of the scientific community, the Congress, and the public. In addition, the Program Director will maintain information on the cost of research, the NIAMS contributions to the cost, and prepare proposed estimates of future fiscal requirements for orderly expansion or contraction of the overall program. The Program Director will be expected to seek a balanced research endeavor and stimulate change in the area of arthritis and interrelated disciplines. The Program Director also will be required to identify trends in research and research training, and recommend areas of future need and expansion.

Applicants must possess an M.D. in a specialty appropriate to the position's work (e.g., arthritis, rheumatic diseases), or a Ph.D. (or equivalent doctoral degree) including acceptance of the dissertation in an academic field of health or pertinent sciences related to arthritis research. Experience must show the applicant's education has been applied and utilized in health or health-related research with one year (preferably three years) of progressively responsible experience, must have published research results in appropriate scientific journals, and must have demonstrated experience in grant application and Federal and private funding mechanisms. Applicants also must show experience that demonstrates: (1) professional knowledge of the principles, theories, and practices applicable to one or more scientific fields relevant to the position's work (e.g., immunology, inflammation, relevant biochemistry and immunogenetics, rheumatic illnesses such as rheumatoid arthritis, systemic lupus erythematosus, and scleroderma, metabolic and degenerative diseases such as osteoarthritis, infectious causes of arthritis, related pharmacology, related rehabilitation medicine, and clinical trials); (2) knowledge of Federal grant and contract procedures and/or closely related administrative/management processes; (3) ability to meet and interact with scientific personnel, health care professionals, and members of the lay community; and (4) ability to write clearly, logically, and persuasively on complex scientific topics for diverse scientific and non-scientific audiences.

Applicants must be U.S. citizens. The position's current salary range is \$55,969 to \$72,758 per year (with promotion potential to \$85,978 per year). Salary may vary depending on the individual's qualifications. Applicants may submit their applications in the format of their choice, including CV, résumé, and bibliography. To obtain more detailed information about application information requirements for the position, applicants are encouraged to request the NIAMS Vacancy Announcement #AM-98-0271 by calling 301-496-0436, or via fax by calling 301-594-2953 or 1-800-782-JOBS; the fax ID # is 1632. The Vacancy Announcement closes September 21, 1998, and all applications must be postmarked by September 21, 1998. Please mail applications to the NIAMS Personnel Office, Building 31, Room 4C13, 31 Center Drive, MSC 2350, Bethesda, MD 20892-2350.

NIH is an Equal Opportunity Employer.

POSITIONS OPEN

CHAIR

The Department of Animal and Avian Sciences at the University of Maryland, College Park, Maryland seeks a Chair. The successful candidate must have a Ph.D. in the animal sciences, or a closely related field, be internationally recognized for accomplishments in research, teaching, and/or extension and be qualified to be tenured as Professor. Candidates need to have administrative experience and familiarity with the land-grant system along with an understanding of outreach to Maryland's animal industries. The candidate should possess outstanding communication skills, have a demonstrated ability to work effectively with faculty, students, staff, administrators, industry, and/or other clientele and have demonstrated ability in attracting extramural funding. Salary is competitive and commensurate with experience. Review of applications will begin November 1, 1998, and will remain open until a suitable candidate has been identified. Applications should include a statement of interest, résumé, and names, addresses, and telephone numbers of three references. Send applications or nominations to:

Search Committee Co-Chairman
Dr. Joseph H. Soares, Professor
Department of Animal and Avian Sciences
University of Maryland
College Park, MD 20742
Telephone: 301-405-5785
E-mail: js89@umail.umd.edu
Website: <http://www.agnr.umd.edu/users/ansc/>

The University of Maryland is an Equal Opportunity/Affirmative Action Employer and especially encourages qualified minorities and women candidates.

BIOCHEMICAL NEUROSCIENCE

As part of a major initiative in the neurosciences at the West Virginia University (WVU) School of Medicine, applications are invited for a **TENURE-TRACK FACULTY POSITION** at any rank in the Department of Biochemistry. The WVU Health Sciences Center has modern core facilities for molecular biology, biochemistry, and imaging, a neuroscience graduate program, and collaborative opportunities with Neuroscientists and Structural Biologists within the School of Medicine and the College of Arts and Sciences. Applicants must have a Ph.D. and significant research experience. Persons working in any area of biochemical neuroscience, preferably with an interest in structural biochemistry as relates to neuronal protein function, will be considered. The successful applicant will be expected to develop an extramurally funded research program and to participate in the teaching of graduate and health professional students. Applicants should submit a letter detailing their research interests and future plans along with a complete curriculum vitae and arrange for three letters of reference to be sent to: Dr. Mary Wimmer, Chair, Search Committee, Department of Biochemistry, Robert C. Byrd Health Sciences Center, P.O. Box 9142, Morgantown, WV 26506-9142. E-mail: mwimmer@wvu.edu. Review of applications will commence on October 9, 1998, and continue until the position is filled. *West Virginia University is an Equal Opportunity/Affirmative Action Employer.*

TENURE-TRACK FACULTY POSITION DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY SUNY Health Science Center at Syracuse

The Department of Microbiology and Immunology at the SUNY Health Science Center at Syracuse invites applications for two tenure-track, full-time positions at the **ASSISTANT PROFESSOR** level. Candidates must have potential to establish an independent research program using contemporary approaches to the study of microbiology or immunology. Competitive applicants will have a Ph.D. degree or equivalent, postdoctoral experience, and a record of innovative research productivity. Salary, space, and start-up funds are competitive with national levels. More information about our program can be obtained from our website: <http://micro.ec.hscsyr.edu/microb/>. Applications including a statement of research interests and goals, a curriculum vitae, and names and three letters of reference should be sent to: Steven M. Taffet, Ph.D., Chair of the Search Committee, Department of Microbiology and Immunology, SUNY Health Science Center at Syracuse, 750 East Adams Avenue, Syracuse, NY 13210. The deadline for applications is October 1, 1998.

The SUNY Health Science Center at Syracuse is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

CHAIR, DEPARTMENT OF MEDICINE

The University of Pittsburgh School of Medicine is seeking candidates for the Chair of the Department of Medicine. 248 full-time faculty and Research Associates as well as over 400 volunteer faculty comprise the Department's 11 divisions, which include cardiology, clinical pharmacology, endocrinology, gastroenterology-hepatology, general medicine, geriatrics, hematology-oncology, infectious diseases, pulmonary, renal-electrolyte, and rheumatology. The University of Pittsburgh Department of Medicine is recognized nationally for the quality of its comprehensive clinical delivery system. The Department also has a strong national and international reputation for its research achievements and training opportunities, and it enjoys considerable extramural research support. The Department of Medicine is actively involved with the Medical Center in a wide variety of clinical and teaching programs throughout the region.

Candidates should have documented experience in academic medicine, including demonstrated leadership abilities to direct major clinical, research, and training programs. The successful candidate must qualify for appointment as Professor of Medicine (tenured). Nomination and/or letters of interest from prospective candidates will be taken until November 1, 1998, and should include a current curriculum vitae. Address correspondence to: Chair of the Search Committee, David J. Kupfer, M.D., Department of Psychiatry, University of Pittsburgh, Western Psychiatric Institute and Clinic, 3811 O'Hara Street, Pittsburgh, PA 15213.

TENURE-TRACK FACULTY POSITION IN ECOLOGY

The Department of Biological Sciences at Florida Atlantic University seeks applicants for an **ASSISTANT PROFESSOR** position. We are particularly interested in an Ecosystem or Landscape Ecologist to enhance our new interdisciplinary M.S. Program in Environmental Sciences. This program includes several tracks in tropical ecology. Our Department offers a diverse faculty for research collaboration including marine and terrestrial ecology, animal behavior and physiology, molecular biology, and biotechnology. Applications must include a curriculum vitae, statement of research and teaching interests, reprints, and a list of three referees to: Dr. Marguerite Koch, Search Committee Chair, Department of Biological Sciences, Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431-0991. Website: www.fau.edu/biology. Application deadline: October 1, 1998. *Florida Atlantic University is an Equal Opportunity/Access/Affirmative Action Institution.*

RESEARCH ASSISTANT PROFESSOR POSITION MECHANISMS OF URINARY TRACT INFECTION

NIH-funded Research Assistant Professor position available immediately to study mechanisms of urinary tract infection (UTI) at molecular and cellular levels. The position offers exciting research opportunity, highly competitive salary plus benefits, and potential of becoming an independent investigator. Prior experience in UTI is not necessary. Applicants should have a Ph.D. and at least two to three years of postdoctoral experience in molecular biology, cell biology, microbiology, or immunology. Send curriculum vitae and names of three references to: Anthony J. Schaeffer, M.D., Chairman, Department of Urology, Northwestern University Medical School, Tarry 11-715, 303 East Chicago Avenue, Chicago, IL 60611. FAX: 312-908-7275. *Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION in oral biology. Position beginning January 1, 1999, in biochemistry/cell biology/immunobiology. Ph.D. (Ph.D.-D.M.D. or equivalent preferred) and demonstrated teaching and research experience required. Duties include teaching dental students, dental residents, and graduate students in an integrated oral biology curriculum, and conducting independent research. Rank and salary commensurate with experience. Send curriculum vitae and names of three references to: Dr. Jill Lewis, Department of Oral Biology and Maxillofacial Pathology, AD1426, School of Dentistry, Medical College of Georgia, Augusta, GA 30912-1126. Applications will be accepted until a suitable candidate is identified. *MCG is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

JOHN N. COUCH

PROFESSOR/ASSISTANT PROFESSOR

The Department of Biology at the University of North Carolina at Chapel Hill (UNC-CH) seeks a visionary senior scientist for the John N. Couch Professorship within an interactive plant biology group. This individual will use state-of-the-art genetic, molecular, biochemical, and/or cellular approaches to address fundamental questions in plant cellular and/or developmental biology as demonstrated by a strong, ongoing, externally funded research program. Candidates for this endowed chair are expected to be leaders in the international plant sciences community and to take a leadership role in advancing plant biology at UNC-CH. Applicants should provide a curriculum vitae, names and addresses of four references, a concise description of current and future research interests, and a statement of teaching philosophy.

ASSISTANT PROFESSOR

The Department of Biology at the University of North Carolina at Chapel Hill seeks outstanding candidates for a tenure-track position at the Assistant Professor level to join an interactive plant biology group. This individual will use state-of-the-art genetic, molecular, biochemical, and/or cellular approaches to address fundamental questions in plant cellular and/or developmental biology. Candidates must have a Ph.D. and significant successful postdoctoral experience. Applications should include a curriculum vitae, a concise description of current and future research interests, and a statement of teaching philosophy. Applicants should provide these items, and arrange for four letters of recommendation, to:

Chair, Plant Biology Search Committee
Chair, Couch Search Committee
Department of Biology, CB#3280
University of North Carolina at Chapel Hill
Chapel Hill, NC 27599-3280

We will begin reviewing applications October 1, 1998. *The University of North Carolina is an Equal Opportunity/Affirmative Action Employer and strongly encourages applications from women and minorities.*

EAST TENNESSEE STATE UNIVERSITY BIOCHEMISTRY AND MOLECULAR BIOLOGY J. H. Quillen College of Medicine Johnson City, Tennessee 37614

INSTRUCTOR/RESEARCH FELLOW. To engage in a collaborative research project with a major pharmaceutical company to inhibit the activity of p21ras through preventing its association with cell membranes. The successful candidate will report to the Chair of Biochemistry and Molecular Biology of a young and growing medical school located in the Blue Ridge Mountains of Tennessee. There are good possibilities for academic advancement. Starting salary is \$22,000 to \$24,000 depending on experience, plus benefits. Familiarity with modern protein purification techniques (FPLC) and standard molecular biological procedures is highly desirable. To apply send a résumé including three professional references to: Michael Sinensky, Ph.D., Professor and Chair, Department of Biochemistry and Molecular Biology, James H. Quillen College of Medicine, Box 70581, Johnson City, TN 37614-0581. E-mail: sinensky@etsu.edu. Position contingent on grant funding.

FACULTY POSITION AVAILABLE FACULTY OF HEALTH SCIENCES Ben-Gurion University of the Negev

The Department of Virology, Faculty of Health Sciences of Ben-Gurion University of the Negev, Beer-Sheva, is seeking candidates for a tenure-track faculty position. Applicants should hold a Ph.D. or M.D. degree and have postdoctoral experience. The successful candidate will be expected to develop a vigorous research program and teach virology courses for M.D. and graduate students. Preference will be given to candidates with a strong background in molecular biology. A curriculum vitae, list of publications, and a brief research program (two to three pages) should be sent to: Chairman, Division of Basic Sciences, Faculty of Health Sciences, Ben-Gurion University of the Negev, Beer-Sheva 84105 Israel no later than November 15, 1998. At least four letters of recommendation should be sent to the same address, or to FAX: 972-7-6279360.

Bayer is an international research-based company in health care, chemicals, and imaging technologies. The Central Research Division in Leverkusen, Germany, is offering a

Postdoctoral Position

The successful applicant with a chemical or physical background will join the physics department. Your work will focus on the development of innovative polymer coatings by means of combinatorial chemistry. You will be working on the implementation and automatization of the combinatorial processes as well as in the area of advanced structural characterization of the polymer films. You have an experimental background in surface and polymer science. Experience with the automatization of experimental set ups will be an advantage. You are highly motivated and accustomed to working on high-profile, challenging projects. Please send your application quoting ref.-No. 590 to:

Bayer AG, Personalmarketing, Frau Fengler
Hauptstrasse 119, D-51368 Leverkusen



University of Zürich

The Faculty of Sciences (Mathematisch-naturwissenschaftliche Fakultät) of the University of Zürich invites applications for the position of an

Assistant or Associate Professor of Molecular Biology

at the Institute of Molecular Biology. The position is intended to complement the Institute's programs on mechanisms of gene regulation in mammalian cells.

Applicants must have an internationally competitive research program and outstanding scientific achievements in the field of mammalian molecular genetics or closely related areas. Depending on the qualification of the candidate, the appointment will be made at the level of Assistant or Associate Professor. The successful applicant is expected to participate in the teaching of the Institute's lab course and/or lecturing program.

Applicants are invited to submit a curriculum vitae, a publication list, copies of three key publications, a short summary of current and future research interests, and names, addresses, and phone/fax numbers of three referees by October 15, 1998, to:

Dekan der Mathematisch-naturwissenschaftlichen Fakultät der Universität Zürich, Prof. Dr. V. Ziswiler, Winterthurerstrasse 190, CH-8057 Zürich, Switzerland.

For further information, please consult the Institute's home page: <http://www.unizh.ch/imb> and/or contact Prof. Walter Schaffner, Institute of Molecular Biology, Phone +411-635-3150/51, Fax: +411-635-6811, E-mail: wschaffn@molbio2.unizh.ch.



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

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

POSITIONS OPEN

VERTEBRATE COMPARATIVE PHYSIOLOGIST ASSISTANT PROFESSOR

Creighton University Biology Department

Creighton University invites applications for a tenure-track, nine-month appointment at the rank of Assistant Professor to begin in August 1999. Candidates should have completed a Ph.D. with a specialization in vertebrate physiology. Postdoctoral experience is preferred and teaching experience is highly desirable. The teaching load is four courses per year. Primary responsibility is a comparative vertebrate physiology course with laboratory. Ability to teach environmental physiology and/or cellular physiology is preferred. The successful candidate should possess a strong desire to teach in a liberal arts college and to participate in our interdisciplinary environmental science degree program. Mentoring of undergraduate research students is required. The individual must establish an effective and sustainable physiology research program that leads to peer-reviewed publications required for tenure and advancement. Creighton is a Jesuit, Catholic institution that seeks qualified applicants from all backgrounds who believe they can contribute to the university's outstanding educational traditions. To apply, (1) a curriculum vitae, (2) statements on teaching philosophy, research interests, background training and special skills, and long-term goals, (3) documentation (if available) of teaching effectiveness, (4) undergraduate and graduate transcripts, and (5) names and addresses of three references must be received by November 6, 1998. Please direct inquiries and application materials to: **Dr. Jane C. Roberts, Chair of Search Committee, Department of Biology, Creighton University, Omaha, NE 68178-0103 USA.** We encourage applications from women and minorities. Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE/FULL PROFESSOR VETERINARY MOLECULAR BIOLOGY

Applications are invited for a tenure-track position with rank commensurate with experience. This position is 90 percent research, 10 percent instruction, and is supported by a generous start-up package, including technical support, and a competitive salary. A Ph.D. or Ph.D.-D.V.M. in a biomolecular discipline and postdoctoral experience are required for all candidates. The potential to establish, or evidence of, a competitive, independent research program is required for candidates at the Assistant Professor level. Candidates at the Associate or Full Professor level are expected to have already established, extramurally funded research programs. Collaboration with various groups is encouraged and the department and university have several multiuser facilities to promote interaction among faculty. We are seeking an outstanding scientist who is addressing important problems in mammalian development or disease syndromes at the level of basic mechanisms. Individuals using biochemical, cellular, and/or genetic approaches to investigate infectious agents or host response to disease or are studying diseases associated with animal development and function are encouraged to apply. Interested applicants should send letter of application, curriculum vitae, selected reprints, a summary statement concerning research plans and grant proposals, and arrange for three letters of reference to be sent to: **Chair, Search Committee, Veterinary Molecular Biology, Montana State University, Bozeman, MT 59717-0360.** Screening will begin October 1, 1998. For a full job description and additional information about our department visit our website: <http://www.montana.edu/wwwvmbi>. ADA/Equal Opportunity/Affirmative Action/Veterans Preference.

The Pediatric Gastroenterology and Nutrition Program at Massachusetts General Hospital/Harvard Medical School are seeking applicants for the position of **PRINCIPAL INVESTIGATOR** at the **ASSISTANT PROFESSOR** level, non-tenure-track, to join the research faculty. Applicant should have a Ph.D. in cell biology, immunology, or microbiology with appropriate postdoctoral experience either in developmental gastroenterology or mucosal immunology. Applicant will be expected to develop research expertise in one of these areas that can lead to NIH or equivalent support within three years of initial appointment. Please send curriculum vitae to: **W. Allan Walker, M.D., Director, Mucosal Immunology Laboratory, Mass General Hospital, 149 13th Street (1493404), Charlestown, MA 02129-2060. FAX: 617-724-1731; e-mail: walker@helix.mgh.harvard.edu.** Harvard Medical School is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSITIONS OPEN

ASSISTANT PROFESSOR IMMUNOLOGY AT THE UNIVERSITY OF MINNESOTA

The University of Minnesota Center for Immunology seeks applicants for a tenure-track position at the Assistant Professor level with the primary faculty appointment to be in the Department of Laboratory Medicine and Pathology. Candidates who have a Ph.D., M.D., or D.V.M. degree and at least three years of relevant postdoctoral experience will be considered. The successful candidate will be expected to develop a rigorous independent and innovative externally funded research program, and will have the opportunity to participate in the teaching mission of the university. We are particularly interested in candidates whose research complements our faculty's existing strengths. We seek candidates with interests in, but not limited to, autoimmunity, signal transduction mechanisms, and natural killer cells. Interested candidates can learn more about the faculty research interests, facilities, and educational program at our websites for the Center (website: <http://www.borg.labmed.umn.edu/imm.html>), the Department (website: <http://www.borg.labmed.umn.edu/Ateam.html>), and graduate program (website: <http://www.mimp.umn.edu>).

Applicants should send their curriculum vitae, a statement of research interests, and names of three references to: **Immunology Search, c/o Marilyn Green, University of Minnesota Medical School, Department of Laboratory Medicine and Pathology, Box 609 Mayo, 420 Delaware Street S.E., Minneapolis, MN 55455.**

The deadline for receipt of applications is November 4, 1998.

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

MEDICAL COLLEGE OF VIRGINIA OF VIRGINIA COMMONWEALTH UNIVERSITY

The Massey Cancer Center and the Department of Human Genetics at Virginia Commonwealth University wish to expand and enhance their mutual and individual research programs through the joint recruitment of an experienced Mouse Developmental Geneticist to a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** level. The successful candidate must have a doctoral degree and at least two years of postdoctoral training and would be expected to occupy and direct the use of a fully equipped transgenic mouse knockout facility, which is located in a new Medical Science Building. The candidate would be expected to develop an independent research program in an area such as developmental biology or mouse models of human genetic diseases such as cancer. Interested applicants should send a curriculum vitae, a two- or three-page description of current research interests, and three letters of recommendation by November 15, 1998, to: **Walter E. Nance, M.D., Ph.D., Chairman and Professor, Department of Human Genetics, Virginia Commonwealth University, P.O. Box 980033, Richmond, VA 23298-0033. FAX: 804-828-3760; Telephone: 804-828-9632; e-mail: nance@hsc.vcu.edu.**

Virginia Commonwealth University is an Affirmative Action/Equal Opportunity Employer; women and members of minorities are encouraged to apply.

Faculty positions in chemistry. The Department of Chemistry at Washington University in St. Louis invites applications for two tenure-track faculty positions at the **ASSISTANT PROFESSOR** level to begin in September 1999. The search will focus on inorganic chemistry, materials chemistry, and physical chemistry. Participation in the teaching of core chemistry courses at both the undergraduate and graduate levels will be required. Applications, consisting of a curriculum vitae and a research proposal, must be received by 31 October 1998 to ensure inclusion in the initial Search Committee review. Candidates should arrange for three letters of reference to be received by the same date. However, late applications will be accepted until the positions are filled. Address all materials to:

**Faculty Search Committee
Department of Chemistry
Campus Box 1134
Washington University
One Brookings Drive
St. Louis, MO 63130-4899**

Washington University is an Equal Opportunity/Affirmative Action Employer. Individuals from underrepresented groups are especially encouraged to apply.

POSITIONS OPEN

James Madison University, Department of Biology. Two human anatomy and one human physiology, renewable, **ASSISTANT or ASSOCIATE PROFESSOR** positions. Anatomists will teach clinical anatomy to Physician Assistant and occupational therapy students, introductory human anatomy, and a specialty course. The Physiologist will teach clinical and pathophysiology to Physician Assistant students, introductory human physiology, and a specialty course. Teach summer and either fall or spring semesters. One anatomy and the physiology position will begin January 1999, the second Anatomist will begin May 1999. Candidates must show evidence of excellent teaching and communication skills, including familiarity with instructional technology. A continuing commitment to scholarly activity, preferably involving undergraduate and Master's students, is required. Area of scholarly expertise open but could include zoology, comparative biology, clinical science, vertebrate physiology, or pedagogy. Ph.D. required. See website: <http://www.jmu.edu/biology/jobs.html> for more information. Submit curriculum vitae, statement of teaching philosophy, and summary of scholarly interests and goals. Arrange to have sent three letters of recommendation. Direct applications to: **Chair of Anatomy Search or Chair of Physiology Search, Department of Biology, MSC 7801, James Madison University, Harrisonburg, VA 22807.** Applications received by 22 September 1998 will be assured consideration. JMU is an Equal Opportunity/Affirmative Action/Equal Access Employer and especially encourages applications from minorities, women, and persons with disability.

The Ohio State University (OSU) Marion Campus seeks applications for a tenure-track **PLANT BIOLOGIST** at the **ASSISTANT PROFESSOR** level beginning autumn quarter 1999. The successful candidate will teach introductory biology, local flora, other appropriate courses, and direct the OSU Marion Campus Nature Center (an environmental education program centered around a reconstructed prairie). We seek applicants committed to undergraduate education, interested in teaching in a multidisciplinary small-college atmosphere. Marion is one of OSU's four regional campuses. The successful candidate will be a member of OSU's Department of Evolution, Ecology, and Organismal Biology. Qualifications include a Ph.D. in a biological science, teaching experience, and scholarship. Applications should include a letter describing teaching philosophy, research interests, and experience; curriculum vitae; and names and addresses of three references. Review of applications begins 9 October 1998 and continues until a suitable candidate is identified. Send to: **Dr. Richard Bradley, Chair, Plant Biologist Search Committee, c/o Linda Jonsson, Ohio State University Marion, 1465 Mt. Vernon Avenue, Marion, OH 43302.** Additional information at e-mail: bradley.10@osu.edu. 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.

PENN STATE UNIVERSITY DEPARTMENT OF CHEMISTRY

The Department of Chemistry at the Pennsylvania State University has several **TENURE-TRACK FACULTY POSITIONS** available for fall 1999. Appointees are expected to establish an exceptionally strong and highly visible research program that incorporates excellence in undergraduate and graduate education. We encourage applications from candidates in all areas of chemistry, including those that interface with other disciplines such as environmental, materials, and biological sciences. Applicants should submit a curriculum vitae, a list of publications, research plans, and arrange to have three letters of recommendation sent to: **Chair of the Search Committee, Box 8, Department of Chemistry, 152 Davey Laboratory, Penn State University, University Park, PA 16802.** An Affirmative Action/Equal Opportunity Employer.

The Department of Biochemistry, Duke University Medical Center invites applications for a faculty position at the level of **ASSISTANT, ASSOCIATE, or FULL PROFESSOR**. We are looking for an outstanding candidate working in the field of mechanistic enzymology. Send résumé, summary of research interest, and three letters of reference to: **Christian R. H. Ratz, Chairman, Department of Biochemistry, Duke University Medical Center, Durham, NC 27710.** Consideration of applications will commence in October 1998. Duke University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS IN RNA STRUCTURE AND RECOGNITION

Several postdoctoral positions are available in the laboratory of Dr. Dinshaw J. Patel at the Memorial Sloan-Kettering Cancer Center for individuals interested in structural studies of RNA tertiary folds and RNA complexes with cofactors, aminoglycoside antibiotics, peptides and proteins in solution. Applicants should have experience in state-of-the-art multinuclear multidimensional bimolecular NMR techniques. Preference will be given to applicants with experience either in DNA cloning and recombinant protein expression and purification procedures or in RNA in vitro selection and characterization procedures.

The Sloan-Kettering NMR Center has ordered two shielded 600 MHz NMR spectrometers to add to the three installed 600 MHz instruments. Access will also be available to a cluster of 800 MHz NMR spectrometers at the New York Structure Center, currently in the planning stage and scheduled to open in 1999.

Please send curriculum vitae, key publication reprints, a statement of research experience and three letters of recommendation to: **Dr. Dinshaw J. Patel, Cellular Biochemistry and Biophysics Program, Memorial Sloan-Kettering Cancer Center, Box 557, 1275 York Avenue, New York, NY 10021. EOE/AA.**



**Memorial Sloan-Kettering
Cancer Center**

The best cancer care. Anywhere.



POSTDOCTORAL FELLOWSHIP
in Molecular Genetics of Phospholipid Metabolic Enzymes. Laboratory of Neurosciences at the National Institute on Aging, National Institutes of Health (NIH), Bethesda, MD, seeks a broadly trained molecular biologist/geneticist to examine gene regulation of enzymes involved in brain phospholipid fatty acid metabolism. Position requires in-depth knowledge of molecular genetic techniques involving general knockout methods, cloning, Northern and Southern blot analysis, *in situ* hybridization, quantitative PCR, and demands experience working with genomic DNA. Requirements: Ph.D. within last 5 years. Send CV, letters, and pertinent reprints to: **Dr. Stanley I. Rapoport, Laboratory of Neurosciences, NIA, Bldg. 10, Room 6C103, NIH, Bethesda, MD 20892-1592; FAX 301-402-0074; e-mail sir@helix.nih.gov. NIH is an Equal Opportunity Employer.**

Roche

Head of Combinatorial Chemistry

Who we are

F. Hoffmann-La Roche Ltd, one of the world's leading pharmaceutical groups, with six major research centres around the globe, values outstanding performance in drug research and development. It is the mission of our Preclinical Research Unit in Basel to produce innovative drug candidates. In pursuing this ambitious goal, the unit makes intensive use of the latest advances in drug research, including genomics, ultra high-throughput screening, and combinatorial chemistry.

The position

The Combinatorial Chemistry Department focuses on evaluating and developing state-of-the-art methodologies and technologies in high-throughput chemistry and applying them to the lead-finding and lead-optimisation process. Working closely with the other Roche research sites, the department head will be a key driver in further expanding and improving the Roche compound library. The Combinatorial Chemistry Department also interacts with medicinal chemists from the therapeutic areas in support of lead optimisation programmes. In addition, the department head and his team are expected to stimulate know-how transfer in combinatorial chemistry across sites and therapeutic areas.

Who you are

To meet the challenges of heading the department, you should have at least 5 years' experience as a group leader in a combinatorial chemistry company or in an equivalent position in the pharmaceutical industry. Your strong desire to accelerate the search for new medicines must be shown by a proven track record in developing high-throughput methodologies and applying them to drug research. Applications from candidates with close contacts to leading academic research groups are welcomed. Strong leadership capabilities and a desire to coach and energise the team are also a must, as are the strong interpersonal and communication skills needed to stimulate creative research in a groupwide research community. Experience in project management and in the application of IM/IT and sensitivity to cost/benefit issues would be a clear plus. Fluency in English and at least some knowledge of German and/or French are required.

Who to contact

If you are interested in this challenging position and the profile fits your background and experience, please forward full application documentation to F. Hoffmann-La Roche Ltd, Human Resources Department, attention Mr Werner Aschwanden, P.O. Box, CH-4070 Basel, quoting reference: As854. For further information, please contact Dr Michael Schultz, Tel. ++41/61/688 08 20.

Pharmaceuticals

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR PEDIATRIC PULMONARY/AIRWAY EPITHELIAL CELL BIOLOGY University of Colorado Health Sciences Center National Jewish Medical and Research Center

The University of Colorado and National Jewish Medical and Research Center are jointly recruiting an Investigator in the area of airway epithelial cell biology. Candidates may be basic scientists or Physician-Investigators (M.D. or Ph.D. required). Interest in collaboration with Investigators working in areas relevant to cystic fibrosis, asthma, and/or airway growth and development is necessary. Send curricula vitae to either address listed below before December 1, 1998:

Frank J. Accurso, M.D.
The Children's Hospital
1056 East 19th Avenue, B-395
Denver, CO 80218

or

Robert Mason, M.D.
National Jewish Medical and Research Center
1400 Jackson Street
Denver, CO 80206

National Jewish Medical and Research Center is an Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

TENURE-TRACK ASSISTANT PROFESSOR DEPARTMENT OF RADIOTHERAPY Loyola University Medical Center

A position is available for those interested in utilizing molecular approaches for analyzing or modulating the effects of irradiation on both normal and tumor cells. The expertise and interests of potential candidates should complement and contribute to existing work within the department involving chromatin structure, apoptosis, and cell cycle regulation. Collaboration with both clinical and basic science colleagues is expected. The successful candidate will have access to excellent laboratory facilities and equipment. Individuals who have secured either their own research funding, or who can demonstrate such potential in the near future, should first contact:

Dr. Andrew T. M. Vaughan
Loyola University Medical Center
Cardinal Bernardin Cancer Center
2160 South First Avenue
Maywood, IL 60153-5385
Telephone: 708-327-8191
E-mail: avaughn@wpo.it.luc.edu

Loyola University is an Equal Opportunity/Affirmative Action Employer/Educator.

RESEARCH SCIENTIST MUSCULOSKELETAL RESEARCH

Research Scientist with academic appointment, Musculoskeletal Research Center, Department of Orthopaedic Surgery, New York University Hospital for Joint Diseases available immediately. Research emphasis: characterization, mechanisms, and treatment of disorders of bone, cartilage, tendon, and/or muscle. Qualifications: recent Ph.D. and/or completion of Postdoctoral Fellowship. Experience in any of the following: molecular biology, protein biochemistry, cell biology, and immunology. An independent Investigator with a clearly defined area of ongoing research is strongly preferred.

Contact: Paul E. Di Cesare, M.D., Director, Hospital for Joint Diseases Musculoskeletal Research Center, Telephone: 212-598-6567. Mail curriculum vitae and three letters of reference to:

Dr. Di Cesare
Musculoskeletal Research Center
Hospital for Joint Diseases Orthopaedic Institute
301 East 17th Street
New York, NY 10003

The Department of Biochemistry, Duke University Medical Center invites applications for a faculty position at the level of ASSISTANT PROFESSOR. We are seeking candidates with experience in the field of biological NMR as applied to fundamental problems of enzymology, protein structure, or nucleic acid biochemistry. Send résumé, summary of research interest, and three letters of reference to: Christian R. H. Raetz, Chairman, Department of Biochemistry, Duke University Medical Center, Durham, NC 27710. Consideration of applications will commence in October 1998. Duke University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

DIRECTOR OF BIOINFORMATICS W. M. KECK CENTER FOR COMPARATIVE AND FUNCTIONAL GENOMICS

The University of Illinois at Urbana-Champaign (UIUC) Biotechnology Center/W. M. Keck Center for Comparative and Functional Genomics is seeking a Director of Bioinformatics to join our staff. This is a full-time, 12-month, regular academic professional position.

The Keck Center will be focusing on comparative genome analysis and functional genomics in microbial, plant, and animal species. The Center serves a large campus with over 180 faculty members in the biological sciences. Three units, High-Throughput Sequencing and Genotyping, Bioinformatics, and Functional Genomics, each led by a director, will work as a team on all ongoing research projects. The Director of Bioinformatics will consult with faculty, providing expertise in DNA and protein sequence analysis methods. The Director will contribute ideas and innovations to new methodologies and secure funding through research grants. Close collaboration with faculty to promote training in bioinformatics at the undergraduate and graduate levels is expected, including outreach activities to the public at large. Other responsibilities include training and supervision of academic and technical personnel, maintaining equipment, and administration of a budget.

Candidates should have a Ph.D. in bioinformatics, biology, or computer science with significant professional expertise in relevant software, relational databases, and Structured Query Language (SQL). The applicant must be able to program in a UNIX environment, using C or C++ and PERL. Object-oriented languages such as JAVA and World Wide Web skills including HTML are highly desirable. Excellent communication skills are essential. Previous teaching experience is highly desirable.

Potential applicants for this position should submit their résumé and three letters of recommendation by 5:00 p.m. on September 9, 1998, to: Dr. Barbara Whitmarsh, Associate Director, Search # 6177, Biotechnology Center, 901 S. Mathews Avenue, Urbana, IL 61801. Telephone: 217-244-0144; FAX: 217-244-0466; e-mail: whitmarsh@uiuc.edu. UIUC is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR. Inorganic chemistry, Amherst College. A full-time tenure-track faculty position is available for a Ph.D. Inorganic Chemist beginning in July 1999. The successful candidate will be expected to teach introductory chemistry as well as inorganic chemistry at the advanced undergraduate level, and will have the opportunity to participate in interdisciplinary teaching. She or he will also be expected to establish a vigorous research program in experimental inorganic chemistry in which undergraduates can substantively participate. Amherst College is a private coeducational liberal arts college of 1,570 students and 165 faculty located in the Connecticut River Valley of Western Massachusetts and participates with Hampshire, Mount Holyoke, and Smith Colleges and with the University of Massachusetts in the Five-College Consortium. Applicants should submit a detailed curriculum vitae and a description of their teaching and research plans, and should arrange for the forwarding of three letters of reference, all to: Dr. J. N. Kuschick, Inorganic Search Chair, Department of Chemistry, Campus Box 2243, Amherst College, P.O. Box 5000, Amherst, MA 01002-5000 by October 30, 1998. Amherst College is an Affirmative Action/Equal Opportunity Employer and especially welcomes applications from women, minority, and disabled candidates.

TRANSGENIC SCIENTIST PURDUE UNIVERSITY CANCER CENTER

The Purdue University Cancer Center has an immediate opening for a qualified individual to assume operational responsibility for the Cancer Center's newly developed and fully operational Transgenic Mouse Core Facility (TMCF). The TMCF offers both knockout and conventional transgenic services to the Purdue University community. Responsibilities and duties for this position include the generation of transgenic mice by pronuclear injection, gene targeting in ES cells, and the derivation of chimeric mice. The qualified candidate will have an M.S. or Ph.D. degree, experience in both ES cell culture and transgenic procedures, plus excellent communication and interpersonal skills. Qualified applicants should send their curriculum vitae and the names of at least three references to: Transgenic Mouse Core Facility Position, Purdue University Cancer Center, Hansen Life Sciences Research Building, West Lafayette, IN 47907-1524.

Purdue University is an Equal Opportunity Employer.

POSITIONS OPEN

COMPARATIVE ANIMAL PHYSIOLOGIST.

The Department of Biology at The University of West Florida invites applications for a tenure-track faculty position at the level of ASSISTANT PROFESSOR, available August 1999. We seek candidates with specialties in either invertebrate or vertebrate physiology. Expertise in the physiology of marine organisms is preferred, but excellent candidates with proficiencies in other areas that complement our existing faculty will be considered. The successful candidate is expected to assist in teaching at the lower division (anatomy and physiology), offer additional courses in their specialty (e.g., comparative/cell physiology) at both the undergraduate and graduate levels, and develop an active research program involving undergraduate and Master's students. Qualifications include Ph.D. and postdoctoral research experience. Teaching experience is desirable. Applicants should submit a statement of teaching and research interests, curriculum vitae, transcripts, and three letters of reference by October 30, 1998, to: Dr. John P. Riehm, Chair, Department of Biology, The University of West Florida, Pensacola, FL 32514. E-mail: jriehm@uwf.edu. Additional information about the university and department can be found at our website: <http://www.uwf.edu>. The University of West Florida is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

International Livestock Research Institute (ILRI), Nairobi, Kenya, conducts research to enhance human welfare through livestock production while conserving the environment. ILRI seeks applicants for a DECISION SUPPORT MODELER (POSTDOCTORAL/ASSOCIATE SCIENTIST) who will co-lead the development of decision support models to help policy makers (1) understand when, where, and why livestock-environment problems occur and identify possible solutions, and (2) improve the economic and environmental sustainability of tsetse fly control. The candidate must have a Ph.D. in ecology, geography, economics, or a related discipline and experience building and using interdisciplinary decision support systems. Extensive experience with GIS, remote sensing, and rule-based modeling is highly desirable. The successful candidate must be willing to work with various stakeholders to improve the decision support tools.

Applicants should send a cover letter, curriculum vitae, and the names and addresses (including telephone, FAX, and e-mail) of three referees to: The Human Resources Manager, International Livestock Research Institute, P.O. Box 30709, Nairobi, Kenya. Telephone: 254-2-630743; FAX: 254-2-631499; e-mail: ilri-kenya@cgnet.com by 30 September 1998.

SENIOR RESEARCH SCIENTIST BIOCHEMICAL ENGINEERING U.S. Army Edgewood Research Development and Engineering Center Aberdeen Proving Ground, Maryland

Responsibilities: conduct research on scale-up biomanufacture of recombinant and natural cellular products; evaluate emergency of new biomanufacturing technologies; conduct and oversee original research; serve as national/international authority in various areas of bioprocessing.

Required: a Ph.D. in biochemical engineering, chemistry, physics, or equivalent doctoral degree related to the work of the position or an equivalent combination of education and research experience.

Salary range: \$95,357 to \$125,900.

Applications: Telephone: 703-617-9415. Other information: U.S. Army Materiel Command, Attn: AMCPE-CS (D. Harrigan), 5001 Eisenhower Avenue, Alexandria, VA 22333-0001. Telephone: 703-617-3660. Applications must be postmarked by 13 October 1998.

Equal Opportunity Employer. U.S. citizenship required.

The Department of Biology, University of Puerto Rico, Rio Piedras invites applications for two tenure-track positions at the ASSISTANT PROFESSOR level in microbiology and developmental biology. The candidates are expected to develop an active research program and to teach at the graduate and undergraduate levels. Candidates must hold a Ph.D. or equivalent degree and have postdoctoral experience. Interested candidates should send résumé, a statement of current and future research goals, and three letters of reference before October 23, 1998, to: Dr. José E. García-Arrarás, Acting Chair, Department of Biology, P.O. Box 23360, San Juan, PR 00931-3360. University of Puerto Rico is an Affirmative Action/Equal Opportunity Employer.

nature

the international weekly journal of science seeks

Three Biological Scientists

To join an expanding multinational team in the London office selecting and preparing manuscripts for publication. Highly qualified applicants from any area of the biological sciences are welcome. Applicants should hold or expect shortly to receive a PhD or equivalent degree, and should be available no later than 1st December.

A Biological Reviews Co-ordinator

To join an expanding multinational team in the London office. This is a senior editorial position; the successful applicant will be expected to play a leading part in commissioning Review Articles and developing material for supplements. Highly qualified applicants from any area of the biological sciences are welcome; editorial experience is highly desirable. Applicants should hold a PhD or equivalent degree, and should be available no later than 1st December.

A Physical Scientist

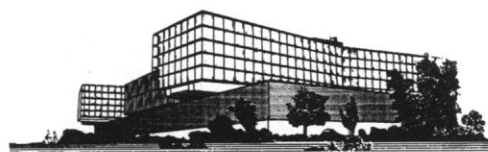
To join an expanding multinational team in the London office selecting and preparing manuscripts for publication. Research experience in atmospheric, ocean or solid Earth sciences would be particularly welcome, but highly qualified applicants from other areas of the physical sciences should not be deterred from applying. Applicants should hold or expect shortly to receive a PhD or equivalent degree, and should be available no later than 1st December.

For all Positions

Applicants should send a cv (including their class of degree, current salary, brief account of their research and literacy skills) together with the names of two referees, a specimen News and Views article on a subject of their choice and a brief covering letter to the Editor, Nature, Porters South, 4-6 Crinan Street, London N1 9XW, (fax +44 171 843 4596; email nature@nature.com) as soon as possible and no later than Friday 4th September.

Macmillan Magazines Ltd

Freie Universität Berlin - Fachbereich Humanmedizin
Universitätsklinikum Benjamin Franklin



Freie Universität Berlin Universitätsklinikum Benjamin Franklin and Deutsches Institut für Ernährungsforschung Potsdam-Rehbrücke

C3-Professorship Immunology

Kennziffer: 1364/98

The DiFE is an institute of the Wissenschaftsgemeinschaft Gottfried Wilhelm Leibniz (Blaue Liste) and performs research on the nutrition-health relationship. In the final phase it will consist of 10 departments.

The Professor will be head of the Department of Immunology at the DiFE. He will be obliged to teach 2 hours per week.

Research area:

Research and teaching in the field of immunology, with emphasis on the interaction of the immune system with nutrition, building up and heading of the Department of Immunology at the DiFE. There are good conditions for animal experimentation (gnotobiology).

Required qualification:

According to § 100 of the BerlHG habilitation or equivalent scientific achievements.

Desired qualification:

Cooperation within the DiFE, particularly with the Departments of Molecular Genetics, Gastrointestinal Microbiology and Clinical Nutrition. Cooperation with existing and planned SFB's and DFG projects in Berlin-Brandenburg.

The applications of female scientists are expressly encouraged.

Applications with the usual documentation should be addressed within 4 weeks to

Freie Universität Berlin
Dekan des Fachbereichs Humanmedizin
Universitätsklinikum Benjamin Franklin
Hindenburgdamm 30, D-12200 Berlin

POSITIONS OPEN

CHAIRPERSON DEPARTMENT OF BOTANY AND PLANT PATHOLOGY Michigan State University

The College of Natural Science and the College of Agriculture and Natural Resources at Michigan State University (MSU) invite applications and nominations for the position of Chairperson of the Department of Botany and Plant Pathology. Michigan State University is a premier land-grant and American Association of Universities institution. The Department of Botany and Plant Pathology, which enjoys an excellent national reputation, comprises over 30 faculty and 60 graduate students. Further information can be found at [website: http://pilot.msu.edu/unit/botany/](http://pilot.msu.edu/unit/botany/). MSU has recently committed to recruitment of six new faculty in plant biology, several of whom will likely have appointments in botany and plant pathology. The Chairperson provides leadership and promotes a creative environment for the instruction, research, and extension programs of the diversified Department. Candidates must possess a record of distinguished scholarship, administrative experience, proven leadership and interpersonal skills, communications abilities, and a broad vision of innovative programs in plant biology research, education, and extension. Maintenance of an active research program is expected, and supported.

Applicants should submit a curriculum vitae, names of five references, and a statement of the candidate's vision for the Department and the plant sciences at MSU. Every effort will be made to maintain confidentiality until the final slate of candidates is selected. Review of applications will begin on or before October 15, 1998. Please send application materials to: **Search Committee, Department of Botany and Plant Pathology, Michigan State University, East Lansing, MI 48824-1312**. Expected starting date is in the fall of 1999, or shortly thereafter.

Women and underrepresented minorities are encouraged to apply. MSU is an Affirmative Action/Equal Opportunity Employer.

Seeking an **ASSISTANT RESEARCH SCIENTIST**. This is an annually renewable, non-tenure-track, 100 percent appointment.

The candidates must have completed a Ph.D. in biochemistry, immunology, or molecular biology. Candidates should have at least two years of postdoctoral research experience and those with a background in molecular biology, glycobiology, or biochemistry of the zona pellucida will be given preference. The primary duty is to participate in a comparative research program studying the role of zona pellucida glycoproteins or glycopeptides in fertilization and contraception. Duties will include participating in the design, implementation, and evaluation of experiments; collaborating on research proposals; and publishing findings. The salary is commensurate with qualifications and experience. The deadline for applications is September 15, 1998, and an anticipated starting date is October 15, 1998. Send curriculum vitae, letter of intent, and the names and addresses of three references to: **Dr. Richard Fayer-Hosken, Department of Large Animal Medicine, College of Veterinary Medicine, University of Georgia, Athens, GA 30602**. Telephone: 706-542-6326; e-mail: rfh@calc.vet.uga.edu. *The University of Georgia is an Equal Opportunity Employer.*

PLANT MOLECULAR BIOLOGIST

NovaFlora is a biotechnology company focusing on the development of ornamental plants. A Ph.D.-level scientist with expertise in the evaluation and molecular analysis of transgenic plants is sought. Applicants should send a letter stating their research interests, experience, and background, as well as copies of publications, curriculum vitae, and names and telephone numbers of three references to: **Dr. Michael S. Dobres, NovaFlora, Inc., University City Science Center, Suite 350, Philadelphia, PA 19104**. Telephone: 215-387-5060; FAX: 215-387-5455; e-mail: info@novaflo.com; website: <http://www.novaflo.com>.

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; e-mail: boutjdir@sprynet.com.

POSITIONS OPEN

MANAGER, MOLECULAR LABORATORY. The Field Museum invites applications for a Manager of its Molecular Laboratory, a core facility used by Museum staff for research in molecular evolution. Applicants (M.S. required, Ph.D. and experience in molecular evolution preferred) must have extensive experience with molecular techniques, laboratory management, training new personnel, and managing budgets. Review of applicants will begin September 18, 1998.

COMPUTATIONAL BIOLOGIST/COMPUTER SCIENTIST. The Field Museum invites applications for a Computational Biologist/Computer Scientist to be responsible for the installation and efficient operation of a high-capacity multiprocessor computer (NSF-funded) to be used for phylogenetic analysis of DNA sequence data in biological research. The ideal candidate will have a Ph.D. with an emphasis in computational biology, bioinformatics, or a related field. The appointment is for an initial period of one year, with the possibility of renewal. Review of applicants will begin October 1, 1998.

Applicants should send curriculum vitae, cover letter, and three letters of reference to: **Human Resources Department, The Field Museum, Roosevelt Road at Lake Shore Drive, Chicago, IL 60605-2469**. FAX: 312-922-0254. The Field Museum's homepage is website: www.fnmh.org. *The Field Museum is an Equal Opportunity Employer and applications from women and minorities are encouraged.*

LECTURER IN BIOLOGY

Applicants with a Ph.D. degree, significant teaching experience, and excellent communication skills are sought for a non-tenure-track position to begin in the fall of 1999. The appointment will be for an initial period of three years with the possibility of renewal thereafter. Applicants should be qualified to teach all areas of introductory biology for science majors and a course in animal physiology for second-year students. Submit a letter of interest, curriculum vitae, and three letters of recommendation that specifically address your teaching skills and experience to: **Lecturer Search, Department of Biological Sciences, Southern Methodist University, P.O. Box 750376, Dallas, TX 75275-0376**. For more information about the department, please visit our website: <http://www.smu.edu/~biology>. The committee will begin its review of the applications on or about November 30, 1998. Applications will be accepted until the position is filled. To ensure full consideration, applications must be postmarked no later than November 30, 1998. All applicants will be notified once the position is filled. Salary competitive. *Women and minority candidates are encouraged to apply. SMU is an Affirmative Action/Equal Opportunity Employer.*

The Invasive Plant Control Laboratory, USDA-ARS, Fort Lauderdale, Florida, has an opening for a **RESEARCH ENTOMOLOGIST** to conduct studies on the biological control and ecology of invasive plants invading aquatic and wetland areas in the Southeast. The primary emphasis will be on melaleuca (*Melaleuca quinquenervia*) in Everglades ecosystems. The successful applicant will conduct basic and applied research on biological control agent-weed systems to improve management of targeted weeds. Knowledge of insect and plant ecology and ecology of insect-plant interactions pertinent to biological control is required. A Ph.D. is desired. Beginning salary \$39,486 (GS-11), \$47,325 (GS-12), commensurate with qualifications. Contact **Ted Center** for technical information or **Geri Barber** for qualification requirements and application procedures at **Telephone: 954-475-0541**. Access vacancy announcement at website: www.ars.usda.gov/afm/hrd/vacancy/recvacancy.html or website: www.usajobs.opm.gov. Refer to announcement #ARS-S85-8266. Applications will be accepted 17 August 1998 to 9 November 1998. U.S. citizenship required. *USDA is an Equal Opportunity Provider and Employer.*

RESEARCH COORDINATOR

The Molecular Cardiology Laboratory at Mount Sinai School of Medicine has a Research Coordinator position available immediately. Candidate will have experience with recombinant DNA techniques, PCR, cloning, RNA isolation, protein purification, tissue culture, and immunohistochemistry. Master's degree preferred. For consideration, please forward curriculum vitae and two references to: **Dr. Andrea Weintraub, Box 1508, One Gustave L. Levy Place, New York, NY 10029-6574**. *We are an Equal Opportunity Employer fostering diversity in the workplace.*

POSITIONS OPEN

INSECT POPULATION BIOLOGIST

The University of California at Berkeley, Division of Insect Biology within the Department of Environmental Science, Policy, and Management invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level with concurrent appointment as an **ASSISTANT ENTOMOLOGIST** in the Agricultural Experiment Station. This ladder-rank appointment will be on a nine-month basis and is available July 1, 1999.

Applicants must have a doctoral degree, an excellent record of scientific productivity, and a comprehensive background in population biology emphasizing trophic ecology or biological control. Preference will be given to applicants with experience in one or more of the following areas: the study of arthropod-plant interactions, the use of phytophagous arthropods as biological control agents, or the use of molecular techniques to address questions in insect population biology. The successful applicant will be expected to teach in the Department's undergraduate programs, run graduate classes and seminars in their area of specialty, and train Ph.D. students. (For more information on the teaching program consult the website: <http://www.cnr.berkeley.edu/departments/espm>.)

Interested persons should apply by submitting a curriculum vitae, a statement of research interests, statement of teaching interests and experience, copies of recent publications, and the names of three references (names, telephone numbers, postal and e-mail addresses) to:

**Professor Nicholas Mills, Chair
Insect Population Biology Search Committee
Department of Environmental Science, Policy,
and Management
Division of Insect Biology
201 Wellman Hall
University of California
Berkeley, CA 94720-3112**

The closing date for applications is October 2, 1998.

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

BIOCHEMIST-TECHNICIAN. Expression and purification of membrane proteins. Job posting #P80454 **RESEARCH ASSISTANT I** (Grade 11). \$29,701 minimum. Required: Bachelor's degree in a related field; experience in large-scale purification of membrane-bound enzymes from tissues and recombinant material (e.g., FPLC, gel filtration, ion exchange chromatography, affinity chromatography); experience in the physical (e.g., SDS-PAGE, protein assays) and functional characterization (e.g., enzyme assays) of membrane proteins, and experience in the preparation of these proteins for subsequent X-ray crystallography. Contact: **Michigan State University Department of Human Resources, Telephone: 517-432-1662** for an application. Closing date August 31, 1998. *Michigan State University is an Equal Opportunity/Affirmative Action Employer.*

The Department of Anatomy and Cell Biology and the Department of Pediatrics at the State University of New York, Downstate Medical Center at Brooklyn invite applications for a tenure-track faculty position at the rank of **ASSISTANT PROFESSOR** to be filled during the 1998-99 academic year. Applicants must have a Ph.D. and/or M.D. degree and postdoctoral experience in basic research with focus in developmental cardiology. Clinical and/or research in pediatric cardiology will be important, as the successful candidate will be a research resource for the Department of Pediatrics, Division of Pediatric Cardiology. Competitive salary and start-up funds are available. Interested individuals should send their curriculum vitae along with a letter describing their research plan and the names of at least three references to: **M. A. Q. Siddiqui, Ph.D., Professor and Chairman, Department of Anatomy and Cell Biology, 450 Clarkson Avenue, Box 5, Brooklyn, NY 11203**. *SUNY HSCB is an Equal Opportunity/Affirmative Action Employer.*

RESEARCH POSITION

Biological science/engineering Ph.D. Practical applications-oriented, versatile, creative, self-directed, publications, excellent writer, strong microbiology and chemistry. All phases contract research and development from proposal writing to development of product. Independent and team work. Send résumé, publication list, salary requirement, and names of three references to: **Human Resources, SymBioTech, Inc., 8 Fairfield Boulevard, Wallingford, CT 06492**.



OXiGENE, Inc. is a biopharmaceutical company specializing in adjunct cancer therapies. Our mission is to improve the quality of life of cancer patients by enhancing the effectiveness of traditional cancer treatments without adding toxicity, as well as minimizing or eliminating side effects. Expected to be the most effective cancer treatment in the foreseeable future, OXiGENE's approach to cancer therapy includes traditional cancer treatments—radiation and chemotherapy—combined with new drugs. OXiGENE's small molecule drug portfolio consists of three product platforms. The Company's initial product platform is based on DNA repair technology with a series of proprietary benzamide analogs; the second product platform consists of cordycepin nucleoside analogs; the third product platform consists of combretastatin analogs, vascular targeting agents able to target new (anti-angiogenic) and existing tumor vasculature. Although OXiGENE currently specializes in oncology, we have a rich preclinical product pipeline encompassing other therapeutic areas as in inflammation, transplantation, and infectious disease.

Director of Clinical Development

Reporting to and working closely with the COO, the Director will have sole responsibility for managing the direction of all clinical trials for compounds in OXiGENE's portfolio. The Director will be engaged in planning, writing, analyzing, and reporting clinical trials and their results, working closely with the members of project teams to ensure rapid and appropriate development of therapeutic candidates through all clinical trial phases. Interacting with the FDA and other regulatory agencies, as well as internal regulatory affairs, the Director will be actively involved in IND/NDA preparation. Managing the interface with CRO, the Director will strategically orchestrate the development process to assure timely achievement of goals. The Director must have an M.D. or M.D.-Ph.D. with specialty and subspecialty training in hematology/oncology; relevant clinical experience in medical oncology or radiation oncology preferred; cancer treatment research experience preferred; infectious disease, transplantation, and inflammation experience desirable. Please forward your résumé by mail to **OXiGENE, Inc., Human Resources, One Copley Place, Suite 602, Boston, MA 02116**, or by fax at (617) 536-4700.

An Equal Opportunity 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 our research and core facilities. This provides unique opportunities for dedicated professionals in the following areas:

Biology and Biochemistry of the Proteasome

A three year NIH-funded postdoctoral position is available in the field of biology and biochemistry of the proteasome. The candidate will possess a Ph.D or M.D. **Reply to: Dr. Christopher Cardozo, Box 1215; Phone: 212-241-7595; Fax: 212-831-0114. E-mail: c_cardozo@smtplink.mssm.edu**

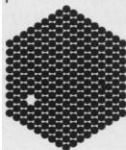
Identification of Novel Prostate Cancer Markers

An opportunity is available for an NIH-funded position to work on a project involving cloning and characterization of clinically relevant markers specific for various stages of prostate cancer. This project will involve the use of molecular approaches in our laboratory and will involve cooperation with basic scientists and clinicians.

Recent Ph.D.'s with a solid background in molecular biology will be given preference. As a condition stipulated by the NIH, candidates must be US citizens or permanent residents. Please forward CV with names and phone numbers of three references to: **Carter Bancroft, Ph.D., Department of Physiology and Biophysics, Box 1514; Phone: 212-241-8604; Fax: 212-860-3369. E-mail cbancro@smtplink.mssm.edu**

Salaries and appointments are commensurate with experience. We offer excellent benefits and exciting, professional challenges. Please fax or e-mail curriculum vitae to the appropriate contact, or mail, indicating department and box number of the position of interest 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



EMBL

Monterotondo
nr. Rome, Italy

The European Molecular Biology Laboratory (EMBL), an international research organisation with its Headquarters Laboratory in Heidelberg (Germany), Outstations situated in Grenoble (France), Hamburg (Germany) and Hinxton (UK), and a Research Programme at Monterotondo (Italy) has the following vacancy in **Monterotondo, near Rome, Italy**:

HEAD OF TRANSGENIC FACILITY

An EMBL Research Programme in Mouse Genetics, headed by Prof. Klaus Rajewsky, was established recently in Monterotondo, near Rome, and began operation in January 1998. One focus of the Programme is to generate conditional mouse mutants for studying questions in immunology and cell biology.

The Head of Transgenic Facility should be well trained in all techniques and procedures for generating chimaeric and transgenic mice (ES-cell injection, DNA-injection, embryo transfer, etc.). We are seeking a highly motivated person, capable of organising and running a service which should serve the EMBL research groups both in Monterotondo and in Heidelberg. Two technicians will provide support.

Closing date for applications: 30.09.1998; Commencing date: As soon as possible thereafter.

For further information contact Dr. Walter Witke, Tel: +39 6 90091268; email: witke@embl-heidelberg.de and visit these web sites: <http://www.embl-heidelberg.de/ExternalInfo/PhDPProgramme/PhD8Monterotondo.html> and <http://emma.rm.cnr.it/>

EMBL is an inclusive, equal opportunity organisation.

To apply please send your CV, or write briefly for a standard application form, quoting ref. no. 98/56/S, to:

The Head of Human Resources, EMBL, Postfach 10.2209, D-69012 Heidelberg, Germany. Fax: +49 6221 387555. email: jobs@EMBL-Heidelberg.de

POSITIONS OPEN

MICROBIOLOGIST FOR RESEARCH IN COLUMBUS, OHIO, COMPANY

To implement methods for cell culture screening system; conduct screening of fractionation separation technology products made for cosmetic, nutraceutical, biotechnology, agricultural, and pharmaceutical applications; conduct the systematic screening of fractionation separation technology products for selections of effective cell growth stimulants and inhibitors; and to study the mechanisms of biological activities of fractionation separation technology products.

Minimum requirements: M.S. in biology or microbiology or its foreign equivalent and three years of experience in the job offered. Other special requirements: ability to read, write, and speak Russian.

\$56,000 per year, 40 hours per week, 8:00 a.m. to 5:00 p.m., Monday through Friday. Send two résumés and cover letters (no calls) to: ES Sp Prgrms, REF#3638jd, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

POSTDOCTORAL POSITION immediately available for NIH-funded research to study the mechanisms of enzymes that process DNA and RNA such as helicases and polymerases. Experience in enzymology, bioorganic chemistry, or related field is preferred. Send curriculum vitae, description of research experience and interests, and names of three references to: Dr. Kevin Raney, Department of Biochemistry and Molecular Biology, Slot 516, 4301 West Markham Street, University of Arkansas for Medical Sciences, Little Rock, AR 72205. E-mail: raneykevind@exchange.uams.edu.

POSTDOCTORAL POSITION. Department of Cellular and Molecular Pharmacology, University of California, San Francisco. Position available immediately to study signaling by metabotropic glutamate receptors and the mechanism of store-coupled calcium channels in central neurons. Ph.D. or equivalent degree and experience with patch clamp methods required. Send curriculum vitae and names of references to: Dr. J. Lansman, Department of Cellular and Molecular Pharmacology, University of California, San Francisco, CA 94143-0450. E-mail: jeffll@itsa.ucsf.edu.

MICROBIOLOGIST/IMMUNOLOGIST. The Department of Biological Sciences at DePauw University seeks a three-semester, full-time position starting February 1, 1999. The position requires a Ph.D. and the ability to teach introductory microbiology, upper-level courses in immunology, and a course in the candidate's area of expertise. Screening of applications will begin September 30, 1998. Applicants should submit a curriculum vitae, graduate transcripts, and three letters of recommendation to: Prof. Chet Fornari, Department of Biological Sciences, DePauw University, Greencastle, IN 46135. Women and minorities are encouraged to apply. DePauw University is an Affirmative Action/Equal Opportunity Employer.

RESEARCH SCIENTIST POSITION SICKLE CELL ANEMIA RESEARCH

Applicants are sought to fill the position of Research Scientist in the Department of Biology at Morehouse College. Candidates should have a Ph.D. or M.D. and experience in research on the cell and molecular biology of sickle cell anemia. Send curriculum vitae including description of research experience to: J. K. Haynes, Ph.D., Chair, Department of Biology, Morehouse College, 830 Westview Drive S.W., Atlanta, GA 30314. Equal Opportunity Employer.

NIH-funded **POSTDOCTORAL POSITIONS** available immediately to investigate the cellular and molecular mechanisms of pregnancy vasodilation (*J. Clin. Invest.* 96:482, 1995), pathogenesis of preeclampsia (*J. Clin. Endocrinol. Metab.* 82:1582, 1997), or regulation and function of growth factor and cytokine expression by the placenta (*FASEB J.* 10:760, 1996). Send curriculum vitae, statement of research interests and career goals, and names of three references to: Dr. Kirk Conrad, Magee-Womens Research Institute, University of Pittsburgh, 204 Craft Avenue, Pittsburgh, PA 15213. FAX: 412-641-1503.

POSITIONS OPEN



COLLECTION SCIENTIST BACTERIOLOGY

The American Type Culture Collection, serving as one of the world's largest and most diverse repositories of biological materials, is seeking a Collection Scientist with extensive experience and a genuine interest in cultivating and characterizing a variety of bacteria with biomedical significance, including anaerobes. Primary position responsibilities will include collection-related activities including acquisition, authentication, and preservation of cultures, tracking important trends in medical microbiology, and interacting with the scientific community. Incumbent will supervise Biologists working with specific groups of biomedical strains and should have opportunities to initiate research projects related to the collection.

Ph.D. in medical microbiology or bacteriology and a minimum of two years of directly related experience required. Previous supervisory experience highly desirable. Qualified candidates should mail letter of interest and résumé, including salary history, to:

American Type Culture Collection
Attn: Human Resources/CSBAC
10801 University Boulevard
Manassas, VA 20110
FAX: 703-365-2735

Visit our website: www.atcc.org.
Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.

POSTDOCTORAL/RESEARCH ASSOCIATE WAYNE STATE UNIVERSITY

NIH-funded, available immediately to develop software for MRI oxygenation measurements. Requirements: background in MRI and physics, chemistry, or engineering preferred. Experience with image processing using AVS desirable.

Send cover letter including research background and goals, and the name of three references to: Dr. Bruce Berkowitz, Department of Anatomy and Cell Biology, Wayne State University, Detroit, MI 48201. E-mail: baberko@med.wayne.edu; website: <http://146.9.7.69>.

Wayne State is an Equal Opportunity/Affirmative Action Employer. All buildings, structures, and vehicles at WSU are smoke-free. Wayne State University—people working together to provide quality service.

RESEARCH ASSOCIATE POSTDOCTORAL position is available in August 1998 to study the effects of oxidants on lungs and heart. Candidates should have a background in basic techniques of cell and molecular biology, and biochemistry, such as cell culture, isolation and purification of nucleic acids and proteins, gel electrophoresis, blotting, immunohistochemistry, molecular cloning, PCR, and sequencing. Experience in lung and heart preferred. Ph.D. degree required. Competitive salary commensurate with experience. Send curriculum vitae and three letters of reference to: Human Resources, Winthrop-University Hospital, 259 First Street, Mineola, NY 11501. Equal Opportunity Employer/Minorities/Females/Disabled/Veterans.

MEDICAL WRITER, PHARMACEUTICALS

Strong general biomedical background; flair for writing; ability to evaluate scientific literature and learn new subjects quickly. Write journal articles, lecture scripts, product overviews. Résumé to: Project House, 1 University Plaza, Suite 210, Hackensack, NJ 07601. E-mail: projhouse@aol.com.

POSTDOCTORAL POSITION available to study the role of calcium and neurotransmitters in retinal synaptic transmission using patch-clamp and imaging techniques. Electrophysiology experience is preferred. Send curriculum vitae and names of three references to: Dr. Zhuo-Hua Pan, CNS Research Institute, Brigham and Women's Hospital and Harvard Medical School, 221 Longwood Avenue, Boston, MA 02115. E-mail: zpan@rics.bwh.harvard.edu.

POSITIONS OPEN

POSTDOCTORAL RESEARCH FELLOW BIOINFORMATICS/COMPUTATIONAL STRUCTURAL BIOLOGY Nucleic Acids Folds in Complexes with Proteins

Department of Nuclear Medicine, Clinical Center, NIH and Molecular Structure Section, Laboratory of Experimental and Computational Biology, DBS, National Cancer Institute, NIH.

To survey nucleic-protein X-ray and NMR structures to identify mechanisms of DNA and RNA deformation upon interaction with proteins (e.g., p53-DNA and transcription complexes). To develop molecular models of nucleic acids spatial folds from radiolabel data (distribution of DNA/RNA breaks produced by decay of iodine-125). To develop new ways to infer mechanisms of protein-DNA/RNA recognition from complex structures with Dr. R. D. Neumann, Dr. I. G. Panyutin, Dr. R. L. Jernigan, and Dr. V. B. Zhurkin.

Requirements: strong structural calculation experience on DNA, RNA, and/or proteins and a recent Ph.D.

Applicants should send résumé and three letters of recommendation to: Paula Wynn, MSC 5677, Room B-116, Building 12-B, NIH, Bethesda, MD 20892-5677. E-mail: wynn@structure.nci.nih.gov.

NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS CENTER FOR ADDICTION AND MENTAL HEALTH

Two Postdoctoral positions are available immediately to study (1) oxidative stress and damage indices; and (2) dopamine receptor-G protein-adenylyl cyclase signal transduction pathway in autopsied brain of human psychostimulant users. Please send curriculum vitae, list of your two most important publications with your justification for importance, statement of research interests, and names of three to five references (preferably by e-mail) to: Stephen Kish, Human Neurochemical Pathology Laboratory, Centre for Addiction and Mental Health, 250 College Street, Toronto, Ontario M5T 1R8 Canada. E-mail: kishs@cs.clarke-inst.on.ca; FAX: 416-979-6871.

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 SCIENTIST

Torrey Pines Institute for Molecular Studies (TPIMS), a nonprofit biomedical research institute, is seeking experienced Research Scientists. Requirements include Ph.D. in synthetic organic chemistry with two to four years of postdoctoral experience. Ideal candidate must have background in combinatorial chemistry involving the solid phase synthesis of glycopeptides.

For consideration, please FAX your résumé to: Torrey Pines Institute for Molecular Studies, Attn: Human Resources, 3550 General Atomics Court, San Diego, CA 92121. FAX: 619-455-3804. No telephone calls will be accepted. Equal Opportunity Employer.

RESEARCH ASSOCIATE position available immediately in the Department of Medicine, College of Human Medicine at Michigan State University to study 7-transmembrane receptor-G-protein interactions. This is a temporary position on an annual year basis. Strong experience in molecular biological techniques is required. Applications due preferably by September 30, 1998. Send curriculum vitae and names of references to: David Wenkert, Ph.D., M.D., Department of Physiology, Room 137D Giltner Hall, Michigan State University, East Lansing, MI 48824. E-mail: wenkert@psi.msu.edu. Refer to position HM668. MSU is an Affirmative Action/Equal Opportunity Institution. Disabled persons have the right to request and receive reasonable accommodation.



ATHEROGENICS, INC.

Scientist/Senior Scientist Molecular Oncology

AtheroGenics, Inc. is a rapidly growing biopharmaceutical company engaged in the discovery and development of products for the diagnosis and treatment of atherosclerosis, inflammation, and cancer. Currently, we have a Scientist/Senior Scientist position available immediately in our Oncology Research Group for a highly motivated individual with experience in Molecular Oncology and animal models of cancer.

The selected individual will be responsible for evaluating novel oncotherapeutic drug candidates in appropriate cell-based and small animal models of cancer and exploring the basic mechanisms of oncogenesis and tumor suppression. The qualified candidate will have a Ph.D. and 1-4 years (Scientist) or 5-8 years (Senior Scientist) postdoctoral training in Molecular or Cellular Biology or a related discipline and a strong record of publication. Strong capacity for self-motivation, excellent communication skills, and ability to interact successfully in a cooperative team environment are required.

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Who we are

Hoffmann-La Roche, one of the world's leading health care companies, has a longstanding reputation for successful and innovative drug development. As part of an expanding commitment in the cardiovascular area, Roche's preclinical cardiovascular discovery department in Basel, Switzerland, is seeking a talented, motivated, and energetic individual as a laboratory leader.

The position

You will be responsible for laboratories dedicated to in-vivo cardiovascular pharmacology. Fully trained technicians will assist you. One laboratory is specialized in performing animal studies including sterile surgery, the other laboratory works with small animals for general cardiovascular research purposes. You will take advantage of a unique state of the art technical platform including digital angiography, Echo-Doppler echocardiography, microsphere blood flow techniques, telemetric hemodynamic monitoring, etc.. You will closely interact with biochemists and medicinal chemists, and participate in the characterization and profiling of new compounds that you will follow through clinical development.

Who you are

You must have a PhD and/or a medical or veterinary degree. Postdoctoral experience in a field relevant to the proposed research is required. You must be able to design and implement new models and experimental protocols for cardiovascular and related diseases. You must have a thorough knowledge in particular of the physio-pharmacology of the coronary circulation as well as of the cardio- and cerebro-vascular system as a whole. Prior experience in experiments with isolated organ preparations would be an advantage. You must have a fluent command of the English language.

Who to contact

If the above profile is in line with your background and experience and you are interested in this challenging position, please forward your application, with full supporting documentation, to the Human Resources Department, for the attention of Mr. Werner Aschwanden, F. Hoffmann-La Roche Ltd, P.O. Box, CH-4070 Basel, Switzerland, quoting reference: As847. For further information, please contact Dr. Sebastien Roux, Tel. ++41/61/688 52 35.

POSITIONS OPEN

SENIOR POSTDOCTORAL POSITION MOLECULAR HEMATOPOIESIS/LEUKEMIA/ TUMOR SUPPRESSOR GENES

Experienced Postdoctoral Fellow or Research Associate sought for challenging project of gene discovery in normal and malignant hematopoiesis. We are applying genomic technology to identify new genes related to proliferation and engraftment of marrow stem cells in a closely related approach; we investigate tumor suppressor genes in chromosomal deletions of AML, MDS, and solid tumors. You will have some supervisory responsibility for Technicians and students. Facilities are available for genomics, computational analysis, and molecular biology; core facilities provide flow cytometry, normal marrow collection, and sequencing. You will work closely with collaborators who have recognized expertise in hematopoietic stem cell biology, gene therapy, and clinical leukemia. Previous postdoctoral experience is required in one or more of the following areas: leukemia biology or hematopoiesis, human genomics, human gene discovery. Please submit résumé, statement of interest, and references to: **Carol A. Westbrook, M.D., Ph.D., University of Illinois, Departments of Medicine and Genetics, 900 South Ashland Avenue, Chicago, IL 60607. E-mail: cwcw@uic.edu; FAX: 312-413-7963.** The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

Two **POSTDOCTORAL POSITIONS** are available immediately for structure/function studies of novel acyl CoA desaturases catalyzing the formation of unsaturated fatty acid intermediates in lepidopteran sex pheromone biosynthetic pathways. The research involves functional expression in yeast of cDNAs encoding moth desaturases with diverse regio-/stereo-selective catalytic mechanisms, and analysis of the unsaturated fatty acids produced. Applicants must have a Ph.D. and expertise in one or more of the following areas: yeast genetics, analytical chemistry, molecular biology, biochemistry. Please send curriculum vitae, description of research experience, and names of three references to: **Dr. Douglas C. Knipple, Cornell University, Department of Entomology, 517 Barton Laboratory, New York State Agricultural Experiment Station, Geneva, NY 14456. E-mail: dck2@cornell.edu; FAX: 315-787-2326.**

Cornell University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION is available immediately to study the structure-function relationship and cellular and molecular regulation of transmembrane receptors for bioactive peptide hormones and growth factors. Individuals using biochemistry, molecular biology, and signal transduction techniques will be considered. Qualified candidates should have a Ph.D. and/or M.D. degree with strong background in one or more of the following areas: molecular cloning, gene expression, site-directed mutagenesis, and/or signal transduction, and protein phosphorylation is highly desirable. Send curriculum vitae and two references to: **Dr. K. N. Pandey, Department of Physiology SL-39, Tulane University Medical School, 1430 Tulane Avenue, New Orleans, LA 70112-2699.** An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW. Cell cycle regulation, College of Medicine. Postdoctoral Fellow position is available to study cell cycle regulation (see: *EMBO J.* 17:3990-4003, 1998; *J. Cell Biol.* 141:1575-1587, 1998). Experience in genetics, molecular biology, or biochemistry a plus, but a strong publication record is most important. Interested individuals should send their curriculum vitae and the names of three references to: **Mrs. Barbara A. Brown, Administrative Assistant, Henry Hood Research Program (SAO), 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.

POSTDOCTORAL POSITION in genetics and molecular biology of neurological mouse mutants. Opening in fall/winter 1998. Projects involve genetic mapping, positional cloning, gene expression, or gene targeting/transgenics. Strongly prefer recent Ph.D. with molecular biology background and familiarity with brain function. Send curriculum vitae, names and telephone numbers of three references, and a statement of research interests by FAX or e-mail to: **Wayne N. Frankel, Ph.D., The Jackson Laboratory, 600 Main Street, Bar Harbor, ME 04609. FAX: 207-288-6077; e-mail: wnf@jax.org.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS

Several Postdoctoral positions are available immediately for Ph.D., M.D., or M.D.-Ph.D. candidates with a background in biochemistry, pharmacology, or molecular biology to investigate angiogenesis, tumor suppressor gene therapy, or the identification and mechanisms of novel tumor suppressor genes, including MMAC/PTEN, in human brain tumors. Independent projects in these areas involve multidisciplinary approaches to performing basic studies and/or translational investigations. Angiogenesis and gene therapy studies are being performed in the laboratory of **Dr. Alfred W. K. Yung**, while basic tumor suppressor studies are being conducted in the laboratory of **Dr. Peter Steck**. Salary is dependent on qualifications and experience. Please send or FAX curriculum vitae, summary of past experience, and three references to: **Dr. W. K. Alfred Yung or Dr. P. A. Steck, at Department of Neuro-Oncology, Box 100, University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030. FAX: 713-794-4999.** Women and minority candidates are encouraged to apply. M. D. Anderson is an Affirmative Action/Equal Opportunity Employer, smoke-free environment.

POSTDOCTORAL POSITION IN MOLECULAR PHARMACOLOGY

A Postdoctoral position is available immediately to conduct research on the molecular actions of antidepressant drugs, with a particular focus on beta adrenergic receptor-linked adenylyl cyclase and type 4 phosphodiesterase. Preference will be given to applicants with a Ph.D. in pharmacology, biochemistry, molecular biology, or a related discipline, as well as interest and experience in applying molecular approaches to the study of psychopharmacological agents. Please send curriculum vitae and the names of three references to: **Dr. James M. O'Donnell, Professor of Pharmacology, Louisiana State University Medical School, 1501 Kings Highway, Shreveport, LA 71130. E-mail: jodonn@lsuic.edu; FAX: 318-675-4757.** Affirmative Action/Equal Employment Opportunity.

Developmental biology **POSTDOCTORAL POSITION** to study the role of cut-homeodomain HNF-6 and winged helix HFH-11 transcription factors in liver morphogenesis and regeneration. These studies will involve analysis of HNF-6 and HFH-11 transgenic and gene knockout mouse models. Preference will be given to applicants with knowledge of transgenic and knockout mouse technology. Please send curriculum vitae, names and telephone numbers of three references to: **Dr. Robert Costa, University of Illinois at Chicago, Department of Biochemistry and Molecular Biology (M/C 536), 1819 West Polk Street, Chicago, IL 60612-7334. FAX: 312-413-0364; e-mail: robcosta@uic.edu; website: <http://www.uic.edu/depts/mc/bc/costa.htm>.** UIC is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION RESEARCH LANDSCAPE ECOLOGIST/GEOGRAPHER Notice # PSW-PD-527-98

USDA Forest Service, Fresno, California, GS-11/12, full benefits, salary \$38,593 to \$46,254, two-year appointment. Research addresses the quantification of uncertainty in spatial data for ecological modeling. Advanced knowledge of statistics emphasizing spatial analysis, good GIS skills, and computer programming skills required. For complete information contact: **Personnel, Telephone: 510-559-6350; e-mail: pm/psw@fs.fed.us.** First consideration for applications postmarked by closing date of September 4, 1998.

POSTDOCTORAL POSITION available to study the role of lipid mediators in the process of corneal inflammation and wound healing. Projects involve characterization of the functions of several lipids, such as interaction with transcription factors modulating the action of enzymes involved in the remodeling of the extracellular matrix and investigating signal transduction cascades involving Src kinases and their role in cytoskeletal reorganization. Experience in molecular biology, cell culture, and biochemistry required. Send curriculum vitae and names of references to: **Dr. Haydee E. P. Bazan, Louisiana State University Eye Center and Neuroscience Center, 2020 Gravier Street, Suite D, New Orleans, LA 70112. Telephone: 504-599-0877; FAX: 504-568-5801; e-mail: hbazan1@lsuic.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITION BIOMOLECULE MASS SPECTROMETRY NSF HIGH-FIELD FT-ICR MS FACILITY

A Postdoctoral position at \$35,000 per year is available in biological applications of high-performance Fourier transform mass spectrometry. State-of-the-art equipment includes electrospray and MALDI ion sources for 9.4 T and 11 T widebore supercon magnets. The candidate will participate in one or more projects, including identification and structural analysis of proteins, noncovalent adduct stability, isotopic amplification, solution vs. gas-phase conformation, H/D exchange as a probe of surface accessibility, and mapping of contact surfaces between macromolecules. Applications include proteomics, cell cycle regulation, cytokines in biological fluids, and DNA and RNA base-pairing. Prior experience in structural biology and/or biological mass spectrometry is essential. Submit graduate transcript, updated curriculum vitae including publications and presentations, a page on prior research accomplishments, and a short description of proposed research area(s), and have three reference letters sent to: **Prof. Alan G. Marshall, Director, ICR Program, National High Magnetic Field Laboratory, Florida State University, 1800 East Paul Dirac Drive, Tallahassee, FL 32310.** FSU is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS COLON CANCER CHEMOPREVENTION

A two- to three-year training position is available for an M.D. or Ph.D. with interests in clinically relevant issues, to explore the relationship between folate status and colorectal carcinogenesis. Mechanistic molecular studies using animal and cell culture models, as well as clinical intervention trials, are integral features of this established program. For M.D. candidates, up to 10 percent of time is available for training in both inpatient and outpatient aspects of clinical nutrition at New England Medical Center. U.S. citizenship or permanent resident status is required. For more information contact: **Joel Mason, M.D., Director, Vitamins and Carcinogenesis Program, Jean Mayer USDA Human Nutrition Research Center on Aging at Tufts University, 711 Washington Street, Boston, MA 02111. FAX: 617-556-3166; e-mail: jmason@jimmy.harvard.edu.**

POSTDOCTORAL POSITIONS available to study (1) oxidative stress and aging. This includes the investigation of the chemical mechanisms by which radicals interact with lipid or protein substrates and the development of inhibitors; candidates should have a strong background in pharmacology, medicinal chemistry, and analytical chemical techniques; (2) conformations of Alzheimer's disease-related neuropeptides in solution. Candidates should have a strong background in molecular biology or biophysical techniques including CD and NMR/distance geometry.

Send curriculum vitae and three letters of reference to: **Dr. Warren Goux, Department of Chemistry, University of Texas at Dallas, P.O. Box 830688, Richardson, TX 75083-0688. E-mail: wgoux@utdallas.edu.** UT Dallas is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION to study the dynamics of protein folding. The approaches are quite novel, involving the new technologies of laser-induced temperature jump to initiate folding/unfolding on nanosecond time scales and to follow the structural changes with various spectroscopic probes (IR, fluorescence, absorption). Applicants should have a strong background in protein expression and biochemical techniques and a background in spectroscopy. Send curriculum vitae and names of three references with telephone, FAX, and e-mail numbers to: **Prof. Robert Callender, Biochemistry, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, Bronx, NY 10461. E-mail: call@accomm.yu.edu; Telephone: 718-430-3024; FAX: 718-430-8565.** Equal Opportunity Employer.

A **POSTDOCTORAL POSITION** is available to study the molecular mechanism(s) of endothelial cell activation following ischemia and reperfusion injury. Candidate must be facile in molecular biology. Significant experience in DD-PCR and cloning is preferred. Please submit a curriculum vitae and the names of three references to: **Gregory L. Stahl, Center for Experimental Therapeutics and Reperfusion Injury, Anesthesia, Brigham and Women's Hospital, Harvard Medical School, 75 Francis Street, Boston, MA 02115. FAX: 617-278-6957.**

POSITIONS OPEN

POSTDOCTORAL AND TECHNICAL POSITIONS GLUCOSE TRANSPORTER PROTEIN DEFICIENCY SYNDROME Columbia University/Division of Pediatric Neurology

The Colleen Giblin Laboratory for Pediatric Neurology Research has two positions available to study a newly described form of childhood epilepsy caused by mutation of the GLUT-1 gene (*Nature Genetics* 18:188-191, 1998). The NIH-funded research will involve genotype/phenotype correlation within an expanding patient base and the development of a transgenic knockout mouse model for the human syndrome. Some experience in molecular biology, especially with PCR, subcloning, and nucleic acid blotting techniques, is necessary. Preferences given to applicants with a background in epilepsy and/or nutrition and additional experience in tissue culture. To apply, send curriculum vitae and a summary of previous laboratory experience to: Dr. Darryl C. De Vivo, M.D., Columbia University, Neurological Institute, 710 West 168th Street, New York, NY 10032.

POSTDOCTORAL FELLOWSHIPS MOLECULAR CELL BIOLOGY

Available immediately, NIH-funded Postdoctoral positions in the Department of Pediatrics, Tufts University School of Medicine, Division of Pediatric Gastroenterology and Nutrition. Program focused on the cell and molecular biology of the intestinal epithelial cell. Experience in techniques of cell and molecular biology required. Applicants must have doctoral degree and U.S. citizenship or permanent resident status. Please send a curriculum vitae and names of three references to: Dr. Richard Grand, Chief, Division of Pediatric Gastroenterology and Nutrition, New England Medical Center, 750 Washington Street, Box 213, Boston, MA 02111. FAX: 617-636-8718; e-mail: richard.grand@es.nemc.org.

POSTDOCTORAL POSITION MACS FOR GENE THERAPY

A position is open to develop episomal transgenic mice carrying human and mouse artificial chromosomes (*Nature Genetics* 8:33; *Nature Biotechnology* 16:762) using non-viral and herpes viral delivery systems (*Curr. Op. Genet. Dev.* 8:351; *Nature Medicine* 1:1303) for gene therapy and developmental genomics. A background in molecular biology is essential and knowledge of virology and/or immunology highly desirable. Send curriculum vitae including the names of three references to: Jean-Michel Vos, Lineberger Cancer Center, CB#7295, University of North Carolina, Chapel Hill, NC 27599.

POSTDOCTORAL POSITION

A Postdoctoral position is available immediately to study the role of p300/CBP coactivator proteins in cell cycle regulation and mammary epithelial cell differentiation and mammary gland development. Experience in molecular biology is an asset. Send curriculum vitae and letters of recommendation to: Dr. Bayar Thimmapaya, Professor of Microbiology-Immunology, Lurie Cancer Center, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611. Telephone: 312-503-5224; FAX: 312-908-1372; e-mail: bayar@casbah.acns.nwu.edu.

POSTDOCTORAL POSITION available immediately to do cutting-edge studies on the immunotherapy of prostate cancer. The ideal candidate will help identify and characterize antigen targets of human cancer vaccines. An excellent opportunity for those interested in translational and applied research regarding experimental clinical trials. Strong immunology background essential. Send curriculum vitae and list of references to: Michael L. Salgaller, Ph.D., Member, Pacific Northwest Cancer Foundation, 120 Northgate Plaza, Suite 219, Seattle, WA 98125. FAX: 206-268-3009; e-mail: mls@nwbio.org.

POSTDOCTORAL POSITION in developmental neurobiology available immediately to study activity-dependent synaptic refinement using transgenic mice. Experience in either extracellular recording *in vivo* or whole-cell recording in brain slices is preferred. Training will be provided in molecular biology, cell culture, mouse behavior, and genetics. Please forward curriculum vitae and the names of references to: Dr. Y. Li, 3347 Beckman Institute, University of Illinois, 405 North Mathews Avenue, Urbana, IL 61801. E-mail: y-li4@uiuc.edu.

POSITIONS OPEN

IMMUNOLOGY UNIVERSITY OF PITTSBURGH ARTHRITIS INSTITUTE

Several **POSTDOCTORAL FELLOWSHIP** and **RESEARCH ASSOCIATE** positions available immediately in my research program within the Division of Rheumatology of the University of Pittsburgh School of Medicine, and the newly established University of Pittsburgh Arthritis Institute. Areas of investigation include molecular mechanisms of autoimmunity (particularly systemic lupus erythematosus), clearance of apoptotic cells, innate immunity, novel strategies for vaccine design, and structure and function of human and viral complement regulatory proteins. Positions will be filled with highly motivated individuals who demonstrate enthusiasm, prior productivity, and excellent communication skills. Send curriculum vitae, a brief statement of research interests, and contact information for three references to: Dr. Joseph M. Ahearn, Director of Biomedical Research, University of Pittsburgh Arthritis Institute, E1152 Biomedical Science Tower, Terrace and DeSoto Streets, Pittsburgh, PA 15261. FAX: 412-648-8894; e-mail: joa84@pitt.edu. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION CARDIAC GENE EXPRESSION/ DEVELOPMENT

The laboratory utilizes molecular techniques and transgenic mouse models, as well as knockouts, toward understanding cardiac development and tissue-specific gene expression. 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. Jeffery 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.

POSTDOCTORAL POSITIONS

Two Postdoctoral positions are available to study the function(s) and regulation of phosphoinositide-specific phospholipase C (PI-PLC) in plants. We have isolated transposon-tagged *A. thaliana* PI-PLC putative mutants. The incumbents will study this signal transducing enzyme in *Arabidopsis*. Applicants with experiences in molecular biology and/or biochemistry should contact: Dr. Madan K. Bhattacharya, Plant Biology Division, Noble Foundation, P.O. Box 2180, Ardmore, OK 73402. FAX: 405-221-7380; e-mail: mkbhattach@noble.org. The Noble Foundation is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS are available to study (1) the mechanisms of transcriptional regulation by steroid hormone receptors and coactivators and (2) the roles of steroid-regulated genes in embryo-uterine interactions during implantation. Candidates must have a Ph.D./M.D. with a strong background in molecular biology and biochemistry for position (1) and cell biology/morphology for position (2). Send curriculum vitae and names and addresses of three references to: Dr. Milan Bagchi (for position 1) or Dr. Indrani Bagchi (for position 2), Population Council, The Rockefeller University, 1230 York Avenue, New York, NY 10021.

POSTDOCTORAL POSITION

Postdoctoral positions are available to study the role of signaling proteins in the cellular response to DNA-damaging agents. Experience in molecular biology and protein-protein interactions is required. Send curriculum vitae and three references to: Dr. Donald Kufe or Dr. Zhi-Min Yuan, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. FAX: 617-632-2934; e-mail: donald_kufe@dfci.harvard.edu or zhimin_yuan@dfci.harvard.edu.

POSTDOCTORAL FELLOWSHIP/RESEARCH ASSOCIATE position is available immediately for a recent Ph.D. in biochemistry/pharmacology/cell biology to study signal transduction through G protein-coupled receptors in normal and disease states. Send curriculum vitae with references to: Madan M. Kwatra, Ph.D., Departments of Anesthesiology and Pharmacology, Duke University Medical Center, P.O. Box 3094, Durham, NC 27710. E-mail: kwatr001@mc.duke.edu; FAX: 919-681-8089.

POSITIONS OPEN

POSTDOCTORAL POSITION

Postdoctoral Research Associate is available to study the unique cell cycle of the malaria-related, AIDS pathogen *Toxoplasma gondii*. These studies will involve the application of genetic strategies to understand the mechanisms linking growth regulation to development. The Department of Veterinary Molecular Biology offers opportunities to work with a committed group of Investigators studying important infectious diseases of humans and animals in a research institute-like setting. Qualifications: a Ph.D. in a biomolecular-related discipline. Experience with recombinant DNA techniques and yeast genetics desired. Access complete vacancy announcement at website: <http://www.montana.edu/wwwvmb/> or contact: Dr. Michael White, Veterinary Molecular Biology, Montana State University, Bozeman, MT 59717-0360. FAX: 406-994-4303; e-mail: uvsmw@gemini.oscs.montana.edu. Send letter of application, curriculum vitae, statement of relevant experience, and names and addresses of three professional references to the above address.

ADA/Affirmative Action/Equal Opportunity/Veteran's Preference.

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

Applications are invited for a **POSTDOCTORAL FELLOWSHIP** to study the biophysical properties and regulation of cardiac ionic channels in adult and aging hearts. Successful candidate should hold Ph.D., M.D., or equivalent degree, with a strong background in cellular electrophysiology. Experience with single calcium channel recording and analysis is desired. Send curriculum vitae and three recommendation letters to: Dr. Ira Josephson/Dr. Edward G. Lakatta, Laboratory of Cardiovascular Sciences, GRC, National Institute on Aging, NIH, 5600 Nathan Shock Drive, Baltimore, MD 21224-6825.

POSTDOCTORAL POSITION available immediately to study intracellular signaling and transcriptional regulation of proinflammatory pathways in neutrophils involved in the development of acute inflammatory lung injury. Candidates must have relevant experience in molecular biology/immunology. Send curriculum vitae and three references to: Dr. Edward Abraham, Division of Pulmonary Sciences and Critical Care Medicine, Box C272, University of Colorado Health Sciences Center, Denver, CO 80262. FAX: 303-315-5632; e-mail: edward.abraham@uchsc.edu.

POSTDOCTORAL RESEARCH FELLOW

Post available for a year project in molecular biology of bone tumors. Ph.D., M.D., or equivalent. Excellent laboratory facilities. Molecular biology training essential.

For information and applications include full curriculum vitae as soon as possible to: Dr. Riccardo Ferracini, University of Torino, FAX: 0039-11-9933225; e-mail: rferracini@irc.unito.it.

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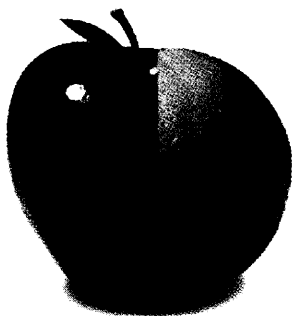
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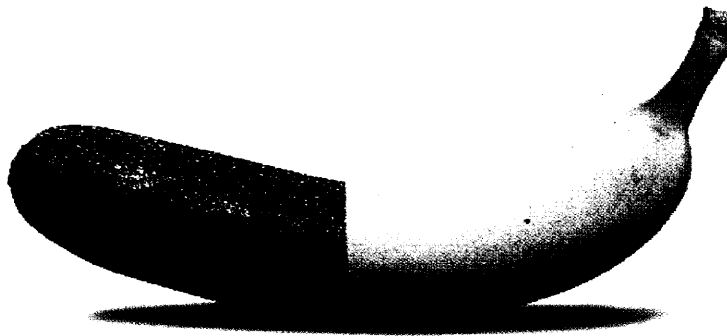
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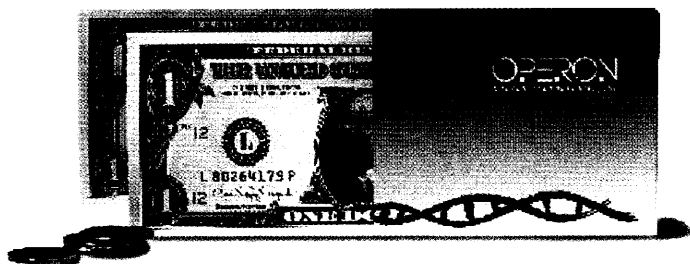
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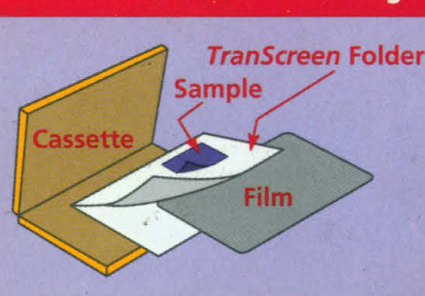
* With purchase of *BioMax* *TranScreen* LE intensifying screen



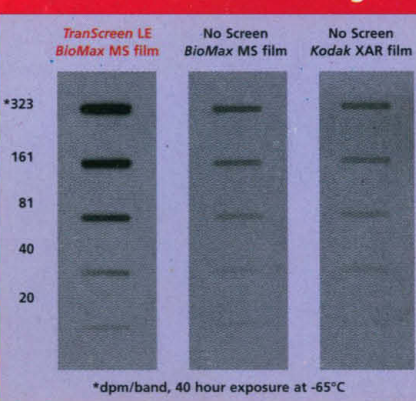
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