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POSITIONS OPEN

KATHERINE ESAU CHAIR

The University of California at Santa Barbara (UCSB) invites nominations and applications for the Katherine Esau Chair in the Department of Ecology, Evolution, and Marine Biology (DEEMB).

We seek to hire a Senior Scientist with a distinguished research and teaching career in structural botany doing research on vascular plants with primary emphasis on evolutionary and/or ecological processes and functions. We are particularly interested in a scientist whose primary research and teaching interests derive from a whole-plant perspective, and will contribute to and benefit from the strong ecological and evolutionary emphases of our department. Examples of interests that would complement emphases in our department include, but are not limited to, evolutionary aspects of plant morphology and anatomy; ecological functional morphology; functional plant architecture/biomechanics; ecological anatomical structure and function; evolutionary basis of morphogenesis; evolutionary developmental morphology; structural diversity and adaptation.

It is expected that the occupant of the Chair, in addition to conducting exemplary research and continuing a history of successful graduate student/postdoctoral training, will teach both undergraduate and graduate courses. The Department of Ecology, Evolution, and Marine

The Department of Ecology, Evolution, and Marine Biology consists of 29 faculty members, approximately 1,200 undergraduate student majors and 100 graduate students. In addition, DEEMB has strong ties with the UCSB Marine Science Institute, the National Center for Ecological Analysis and Synthesis, the UCSB Bren School of Environmental Science and Management, and the Santa Barbara Botanic Garden.

Nominations and applications should be sent to: The Esau Endowed Chair Recruiting Committee, Department of Ecology, Evolution, and Marine Biology, University of California at Santa Barbara, CA 93106. Applicants should send a letter of interest, a recent curriculum vitae, and the names and addresses of five references. This position is open until filled, however, for full consideration applications should be received no later than 31 March 1999. The University of California is an Affirmative Action/Equal Opportunity Employer.

IMMUNOLOGY FACULTY POSITIONS

Applictions are invited for tenure-track faculty positions at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level. Candidates are sought with research interests in immunology to complement a growing department including Dr. Kenneth Rock, Dr. Ray Welsh, and Dr. Leslie Berg. Specific research areas would include, but are not limited to, immunobiology of receptors, signal transduction, and gene regulation; cell biology of accessory cells; tolerance and autoimmunity; and tumor immunology. Selection will be based on excellence in research and the potential to maintain an outstanding independent research program. Applicants should send a curriculum vitae, description of research accomplishments and future objectives, and names and addresses of three references to: Dr. Kenneth L. Rock, Chairman, Department of Pathology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01655. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer and encourages applications from female and minority candidates.

One-year, full-time TEMPORARY FACULTY POSITION in Fisheries Department with possibility of renewal and/or conversion to tenure track. Requires Ph.D. Primary area of expertise to be in ichthyology with ability to teach fisheries courses and scientific writing. Candidates with prior college teaching experience given preference. Rank and salary dependent on candidate's qualifications and experience. Starting date 23 August 1999. Submit letter of application, curriculum vitae, transcripts of academic work, and three letters of recommendation to: Tim Mulligan, Chair, Department of Fisheries, Humboldt State University, Arcata, CA 95521-8299. Telephone: 707-826-3953; FAX: 707-826-4060; e-mail: tjm2@axe.humboldt.edu. Closing date is 1 April 1999 or until position is filled. Humboldt State is an Equal Opportunity/Affirmative Action/Title IX Employer.

POSITIONS OPEN

CHAIR DEPARTMENT OF NEUROSCIENCE University of Connecticut Health Center

The University of Connecticut Health Center School of Medicine invites applications for the Chair of the newly created, basic science Department of Neuroscience. We are seeking candidates who are leaders of a nationally and internationally recognized research program, and who have the vision and leadership qualities to integrate existing faculty with new recruits in the vigorous development of an integrated, cellular-to-systems, multidisciplinary department, with particular emphasis on the growth of molecular and cellular neuroscience. This position will include resources for new tenure-track faculty positions; generous start-up funds; substantial space in a completed, new, state-of-the-art research building; plus extensive space occupied by a well-funded, existing neuroscience faculty and graduate program. Creation of the Department of Neuroscience is one of several exciting new intiatives at the University of Connecticut Medical School, including the formation of a new Department of Genetics and Developmental Biology, and Centers for Microbial Pathogenesis, Molecular Medicine, Tumor Immunology, and Vascular Biology. Applications, which will be reviewed as they are received, should include a complete curriculum vitae, a personal statement of research experience and future plans, comments on the candidate's vision of departmental structure and goals, and the names of at least three references. Send to: **Dr. Steven Pfeiffer**, Chairperson, Neuroscience Search Committee, Department of Microbiology, The University of Connecticut Medical School, 263 Farmington Avenue, Farmington, CT 06030-3205. An Equal Opportunity Affirmative Action Employer.

CHAIR OF NEUROLOGY

Loyola University Chicago Stritch School of Medicine in Maywood, Illinois is seeking nominations for Chair of the Department of Neurology. In addition, the School of Medicine the Loyola University Medical Center includes the School of Nursing and the Foster G. McGaw Hospital, the Hines Veterans Affairs Hospital, and the State of Illinois John Madden Mental Health Hospital. The candidates must be eligible for tenure appointment at the Professor rank and for licensure in the state of Illinois. This position requires an individual with strong interpersonal and leadership skills, experience in academic medicine and administration, and a commitment to service, teaching, and research. The Department of Neurology is fully integrated with the Hines VA Hospital and is based at Loyola University Medical Center, Hines Veterans Hospital, and associated area hospitals,

Nominations and applications, including current curriculum vitae, should be submitted by April 15, 1999, to:

Loyola University Medical Center Kenneth D. McClatchey, D.D.S., M.D. Chairman, Neurology Search Committee Professor and Chairman of Pathology Room 0177, Building 103 2160 South First Avenue Maywood, IL 60153 Telephone: 708-216-3250 FAX: 708-216-8225 E-mail: kmcclat@wpo.it.luc.edu

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TENURE-TRACK FACULTY POSITION DREXEL UNIVERSITY

The Department of Physics at Drexel University anticipates filling a tenure-track faculty position beginning in fall 1999. Applicants are sought to establish a research program in scanning probe microscopy on biological systems to complement active groups in surface physics and biophysics. A Ph.D. in physics is highly desirable. A curriculum vitae, research plan, statement of teaching philosophy, and three letters of reference should be sent to: Prof. N. J. DiNardo, Department of Physics, Drexel University, 3141 Chestnut Street, Philadelphia, PA 19104-2875. Applications received by 15 March 1999 will receive full consideration. More information can be found at website: http://einstein.drexel.edu. Drexel University is an Equal Opportunity/Affiniative Action Employer and welcomes applications from qualified women and minorities.

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To qualify, you must possess a BS/MS in Chemistry, Biochemistry, or a closely related discipline and 2-5 years relevant experience in the operation and application of N-terminal and C-terminal protein microsequencer, amino acid analyzer, MALDI-TOF mass spectrometer and microbore RP-HPLC. You should also be familiar with other micropurification techniques, chemical/enzymatic digestion and modification of proteins, use of protein sequence databases and have good verbal and written communication skills. (Job Code: CH0189)

Protein Biochemist

The successful candidate will apply traditional and computerized chromatography equipment to purify recombinant and native proteins of therapeutic interest. You will participate in multidisciplinary drug discovery teams and report progress in both verbal and written form. You will be using affinity methodologies as well as optimized conventional chromatography in the course of protein purification.

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This position will assume a key role in research projects related to nucleic acid amplification, hybridization, detection and mutational analysis technologies. The incumbent will design, execute and interpret experiments; conceive and implement new project strategies and concepts; search related literature; and supervise technical staff as necessary. Requires Ph.D. in Chemistry, Biochemistry or Molecular Biology, with 1 - 3 years' postdoctoral or relevant experience. Must be proficient in nucleic acid chemistry/biochemistry/ molecular biology techniques. Experience with enzymes, especially nucleic polymerizes, and handling of biological materials desirable. Supervisory experience and computer expertise a plus.



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seeks to fill the following:

Two Temporary positions at Assistant Professor or Instructor level; a Neurobiologist and an Immunologist.

The Neurobiologist would fill a one year position, with teaching duties beginning in the Fall Semester, 1999. Responsibilities include teaching lecture and laboratory courses in comparative physiology and in neurobiology, and an upper level course in some aspect of neuroscience. Candidate will be expected to maintain a research program including undergraduate participation.

Immunologist will teach a one semester course with a laboratory component in Immunology for the Fall Semester, 1999.

Review of applications will begin February 15, 1999. Please send Curriculum Vitae, statement of teaching philosophy and the names of three references to:

SEARCH COMMITTEE, Department of Biology, Bowdoin College, 6500 College Station, Brunswick, ME 04011-8465

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Interested candidates please forward your resume to Dana-Farber Cancer Institute, Dr. Ravi Salgia, c/o Jill Rapp, Human Resources, 44 Binney Street, Boston, MA 02115. Fax: 617-632-4421.

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Interested candidates please forward your resume to Dana-Farber Cancer Institute, Dr. Stanley J. Korsmeyer, c/o Human Resources, 44 Binney Street, Boston, MA 02115. Fax: 617-632-4421 or e-mail: stanley_korsmeyer@dfci.harvard.edu. Please visit our website at www.dfci.harvard.edu. We are an equal opportunity employer.



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COLLOQUIUM ANNOUNCEMENT

"AUTOMATION IN THREAT REDUCTION AND INFECTIOUS DISEASE RESEARCH: NEEDS AND NEW DIRECTIONS"

APRIL 29-30, 1999

THE NATIONAL ACADEMY OF SCIENCES AUDITORIUM, WASHINGTON, DC

Organizers Kumar Patel, Tony J. Beugelsdijk, Scott P. Layne

DESCRIPTION

To make headway in many problems in medicine and biology requires enormous quantities of laboratory-based data. The limiting factor often is the fact that humans, unaided, are not capable of generating such vast inventories of data. Today, for the first time, various scientific disciplines and powerful technologies can be brought together to level the playing field against a number of the important problems facing society.

The scientific side of the Colloquium will focus on the needs for measuring, detecting, and monitoring in areas such as: 1) recognizing and addressing established and emerging infectious diseases; 2) ensuring a safe food supply; 3) averting catastrophic bioterrorism and biowarfare; and 4) advancing human genetics and molecular medicine. The technological side of the Colloquium will focus on the various automation, robotic, computer, information, Internet, and microscale laboratory technologies that are available for supporting such scientific needs. The objective is to identify specific scientific needs, assess current research practices and their limitations, and then consider strategic ways for integrating new high-throughput laboratory tools and technologies.

- Infectious Diseases. As we move into the 21st century, infectious diseases will pose formidable challenges from a variety of directions. The Colloquium will therefore consider scientific needs for such infectious diseases as influenza, tuberculosis, HIV/AIDS, and other drug-resistant infections; and routes toward developing high-throughput laboratory resources that can accelerate basic science, clinical trials, and public health/epidemiology investigations throughout the world.
- Food Supply. Pathogenic food-borne infections are increasing in the U.S. and elsewhere, demanding stringent public health monitoring. The Colloquium will consider scientific needs for protecting the food supply and environment, and ways to engineer high-throughput laboratory resources for improving public health efforts.
- Biowarfare and Bioterrorism. The malicious release of hazardous infectious agents
 poses significant threats to national and global security. The Colloquium will consider the
 needs for conventional laboratory automation and the development and integration of newer
 microscale technologies for carrying out a broad range of activities.
- Further Applications. The Colloquium encourages participation and interest from a widespread scientific constituency. Its multidisciplinary approach entails broad-based participation from academic, governmental, and industrial sectors.

In addition, the two-day program of presentations and panel discussions has an educational component that should be of interest to policy makers. In order to facilitate tangible outcomes from the Colloquium, a "cross-cutting" approach will be emphasized. This approach recognizes that new tools and technologies from one scientific discipline can be carried over to others, and that the synthesis will result in synergy.

REGISTRATION FEE \$200 (non-refundable/can be transferred) includes meals (dinner on April 29th) and one copy of Colloquium proceedings. Accommodations are self-arranged by attendees.

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Web: http://labautomation.org/colloquium/home.html

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SPEAKERS

INTRODUCTION

Kumar Patel, University of California, Los Angeles, CA

INFECTIOUS DISEASES

Roy M. Anderson, University of Oxford, Oxford, UK

Nancy J. Cox, Centers for Disease Control and Prevention, Atlanta, GA

James M. Hughes, Centers for Disease Control and Prevention, Atlanta, GA

Scott P. Layne, University of California, Los Angeles, CA

Gary J. Nabel, University of Michigan, Ann Arbor, MI

Peter L. Nara, Biological Mimetics Inc., Frederick, MD

Ariel Pablos-Mendez, Columbia College of Physicians, New York, NY

Gary K. Schoolnik, Stanford University, Palo Alto, CA

Jeffery K. Taubenberger, Armed Forces Institute of Pathology, Washington, DC

FOOD SUPPLY

John C. Bailar III, University of Chicago, Chicago, IL

Joseph Rodricks, Life Sciences Consultancy, Washington, DC

Bala Swaminathan, Centers for Disease Control and Prevention, Atlanta, GA

BIOWARFARE AND BIOTERRORISM

Ken Alibek. Battelle Memorial Institute. Alexandria. VA

Ashton B. Carter, Harvard University, Cambridge, MA

Donald Kerr, Federal Bureau of Investigation, Washington, DC

Gerald Parker, U.S. Army Medical Research Inst. of Infectious Diseases, Frederick, MD

William C. Patrick III, BioThreats Assessment, Frederick, MD

FURTHER APPLICATIONS

Russell J. Howard, Maxygen Inc., Redwood City, CA Leena Peltonen, University of California, Los Angeles, CA

David J. Galas, Keck Graduate Institute of Applied Life Sciences, Claremont, CA

J. Craig Venter, Celera Genomics, Rockville, MD

TECHNOLOGIES

George A. Bekey, University of Southern California, Los Angeles, CA

Tony J. Beugelsdijk, Los Alamos National Laboratory, Los Alamos, NM

James H. Jett, Los Alamos National Laboratory, Los Alamos, NM

Gary W. Kramer, National Institute of Standards and Technology, Gaithersburg, MD

David J. Lipman, National Library of Medicine, Bethesda, MD

Thomas Marr, Genomica Corporation, Boulder, CO

Stephen S. Morse, Defense Advanced Research Projects Agency, Arlington, VA

J. Michael Ramsey, Oak Ridge National Laboratory, Oak Ridge, TN

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RESEARCH SCIENTIST -GENE THERAPY

In this newly created postion you will design experiements, generate gene therapy vectors and conduct disease modeling experiments. This scientist will design experiments, generate gene therapy vectors and conduct disease modeling experiments. The successful candidate will work on multiple gene therapy projects, of which the principal one will be interferon-beta gene therapy. Requirements include a Ph.D. with at least 2 years' post-doctoral research experience and proven expertise in molecular and cellular biology. Experience working with viral gene therapy vectors is highly desirable. Job Code: RC-GT

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The closing date for applications is March 15.



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SR. RESEARCH SCIENTIST

Behavioral

You will primarily be responsible for investigating such elements as aromas, shapes and color and how they affect the consumer on a cognitive, emotional & behavioral level with respect to the purchase of food products. Further analysis of how such responses are impacted by age, gender, ethnicity, etc., is also involved.

To qualify, we require a Ph.D. in Psychology, with demonstrated strength in experimental/cognitive psychology. Literacy in physiological factors related to food/feeding behavior, as well as experience with sensory systems, is preferred. In addition to strong interpersonal skills, the ability to execute project objectives autonomously, think broadly and apply experimental tools in a variety of areas is key to this role.

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Exciting opening for an individual interested in the influence of membrane transporters on drug disposition. Will lead a project on the structure-activity relationship and gene regulation of P-glycoprotein. Requires a recent Ph.D. in Molecular Biology, Molecular Genetics, Biology, Chemistry, or a related discipline, and experience with cell culture, bioanalysis or pharmacokinetics. Excellent presentation and writing skills are required, as is ability to work well independently. Knowledge of structural chemistry is desired.

New Techniques in Mass Spectrometry

The successful candidate will participate in a team effort to evaluate and develop new technologies for pharmaceutical analysis and metabolite identification by using ion trap mass spectrometry. Individual will have the opportunity to interact closely with bioanalysis, medicinal chemists, and computer software engineer in a dynamic research setting. Requires a Ph.D. in Analytical Chemistry, or a related discipline emphasizing mass spectrometry, with a strong background in organic chemistry and separation science. Experience in ion trap MS is desirable; will consider candidates with a strong background in MS instrumentation.

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Applicants should submit by 4/12/99 a letter of application (refer to vacancy #NS-99-14), a brief description of career interests, and a curriculum vitae and bibliography to: Mr. Luis Arvelo, NINDS Human Resources Branch, Building 31, Room 8A23, 31 Center Drive, MSC 2540, Bethesda, MD 20892-2540; FAX: (301) 480-0383; e-mail: la45j@nih.gov

Applicants are strongly encouraged to obtain specific information concerning the knowledge, skills and abilities needed for the position by contacting Mr. Arvelo at (301)435-6033.

For complete information regarding the vacancy, please see Web site http://www.ninds.nih.gov/hrb/Joblist.htm

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D. F. Jelinek, Ph.D.
Dept. of Immunology
Guggenheim 420
Mayo Clinic
200 First St. SW
Rochester, MN 55905
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DIRECTOR

SARAH W. STEDMAN CENTER FOR NUTRITIONAL STUDIES

Duke University Medical Center has initiated a search for the position of Director for the Sarah W. Stedman Center for Nutritional Studies. The candidate will also be a candidate for appointment as Associate Professor or Professor depending on the individual's qualifications. Salary will be commensurate to qualifications. Applicants should have attained national and international stature in the field of nutrition and/or related areas; be responsible for developing academic and clinical programs in nutrition with a strong track record of funded basic or clinical investigation, excellence in teaching and a strong commitment to clinical activities. Interested individuals should send a letter and curriculum vitae by May 1, 1999 to: Barton F. Haynes, MD, Chair, Department of Medicine, Box 3703, Duke University Medical Center, Durham, NC 27710.

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EXPERIMENTAL PATHOLOGIST

THE CENTER FOR COMPARATIVE MEDICINE Schools of Medicine and Veterinary Medicine University of California, Davis

Qualified candidates are invited to apply for a professorial position at the level of ASSISTANT or ASSOCIATE PROFESSOR, depending upon qualifications. An experimental pathologist is sought as a pivotal member of the UC Davis Center for Comparative Medicine, a new research center that uniquely interdigitates research and teaching programs of the Schools of Medicine and Veterinary Medicine, with close affiliation with the California Regional Primate Research Center and the University of California Mouse Biology Program. Applicants must have M.D. or M.D./Ph.D. degrees. AP boards desirable, but not required. Applicants must have a record of publication in mainstream journals that exemplifies enthusiasm for comparative anatomic pathology. Faculty are sought whose research encompasses mechanisms of host-agent interactions during persistent infection or pathogenesis of infectious diseases at the host interface. Desired areas of emphasis include viral oncology, and infectious disease immunology. The candidate must establish and maintain a robust extramurally funded research program and participate in professional and graduate education with an academic appointment in the Medical School Department of Pathology. This is a tenure-track position in which start-up funding and long-term state-sponsored 1/2 base salary support is provided. Review of applications will commence immediately and be accepted through July 1, 1999 or until position is filled. Submit applications with letter of interest, curriculum vitae, concise statement of present and future research plans, summary of teaching experience/philosophy, up to 3 representative reprints, and 4 letters of reference (including addresses, telephone numbers and email addresses) to: Murray Gardner, M.D., Search Committee Chair, Center for Comparative Medicine, University of California, Davis, CA 95616. The University of California is an Equal Opportunity/ Affirmative Action Employer.

VIROLOGIST



seeks applicants with a Ph.D. or M.D. degree and at least two years of postdoctoral training in Viral Pathogenesis for a tenure track appointment at the Assistant or Associate Professor level. The successful applicant will receive a generous start-up package and will be expected to develop a vigorous, extramurally-funded research program.

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CuraGen Engineering Cures Through Genes

CuraGen's rapid growth has created new career opportunities. We currently have openings for individuals with backgrounds in medicine, molecular biology, biochemistry, biology, bioinformatics, and process engineering. Successful CuraGen employees have an entrepreneurial spirit, a passion for their work, are extremely well organized, and thrive in a challenging, team oriented environment. We are currently seeking highly motivated individuals for the following positions:

Vice-President of Collaborative Research

In this role, you will be responsible for all aspects of the company's relationships with external pharmaceutical and agricultural collaborators. You will have the responsibility of insuring that the terms upon which the customer relationships were established are fully executed, and have final scientific oversight of all collaborative research. You will be engaged in shaping and guiding the entire organization on its successful commercialization of genomics. M.D. or Ph.D. and 10 years experience leading collaborative research efforts in the area of human disease and genomics is necessary. Job Code: 70-99

Director of Pharmaceutical Collaborations

You will manage several teams of scientists involved in Pharmaceutical and Biotechnology collaborations. You will direct the application of CuraGen's unique genomics technology to gene discovery, drug discovery and development. You must be a skilled molecular biologist and have a broad understanding of the molecular basis of human disease. M.D. or Ph.D. in human biology, medicine, genetics, or related field with 6-8 years of experience in an industrial genomics setting. Job Code: 46-99

Project Leader - Bioinformatics

You must be able to define and implement the processes, analyses, and software for CuraGen's discovery services. Your background should be in bioinformatics and you must be able to lead and supervise a team of biologists and computer application developers. Ph.D. in computer or biological sciences with 2-4 years experience leading a product development team. Job Code: 59-99

Group Leader - Disease Gene Discovery

This position involves identifying disease and trait related genes for partnered and internal projects. Must have a strong scientific/management background and demonstrate the ability to independently build teams, define structure, and organize large amounts of genomic information. Must be able to present daily and weekly reports to senior management and identify process improvements and new technologies needed for yield increases. Ph.D. or M.D. in biological sciences with 3-5 years experience leading process driven teams. Job Code: 33-99

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Pfizer scientists are involved in some of the most critical research in the world today. Recently voted Company of the Year by Forbes Magazine, we have established a product pipeline that is unparalleled and an intellectual, collaborative environment that inspires scientific achievement. Pfizer Inc's Animal Health Department is currently seeking candidates for the following positions.

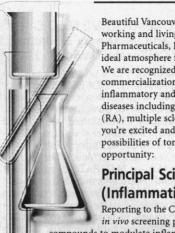
PROJECT MANAGEMENT (2 POSITIONS)

We have two exciting opportunities available in Animal Health Central Research for experienced candidates who will play leadership roles in our global project teams in exploratory and full product development. The successful candidates will work in multi-disciplinary teams that are responsible for establishing proof of concept and executing development programs leading to worldwide registration and launch of animal health medicinal products. These individuals will be expected to participate in developing and implementing creative strategies and tactics that integrate the elements critical to product registration.

DVM or Ph.D. in chemical, biological, pharmaceutical or veterinary sciences, with a minimum of 3-5 years' experience in research development with multi-disciplinary project teams, or MS Degree or equivalent with 10 years' experience in related project management required. Must possess strong motivation to coordinate multi-function teams, demonstrated leadership qualities, and excellent organizational and interpersonal skills with superior written and verbal communication skills essential. Knowledge of drug development and registration process desirable. Competence in standard computer software including, MS Word, MS Project, MS Excel, MS PowerPoint also required.

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To apply, please submit a curriculum vitae, a concise cover letter explaining your interest in the post and a 500-word News & Views-style article on an exciting and newsworthy recent development in any area of biomedical research, to the address below. Please enclose copies of any relevant journalistic or editorial work. (These will not be returned.)

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Qualified candidates will possess strong experience in molecular biology and biochemistry, cell culture is desired for elucidation of novel therapies with nuclear receptors. Candidates should also have knowledge of molecular biology and biochemical techniques and demonstrated organizational and communication skills. Experience with nuclear receptors is desirable but not essential. Proficiency with Intel-based computer platform software including Microsoft Word and Excel. A BS/MS in Biology or equivalent is required. Code: SD-JW

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FACULTY POSITION IN SCIENCE EDUCATION

The College of Science, San Jose State University seeks an ASSISTANT or ASSOCIATE PROFESSOR, tenure track, to begin August 1999. Experience in pre-college teaching and teacher preparation is preferred but not required. A Doctorate in physics, chemistry, or biology is required. A Doctorate in science education will be considered if accompanied by a strong Master's degree in the appropriate science discipline. The candidate should have experience in effective use of technology for instruction. Teaching will be at least 50 percent in the Science Education Program, including secondary science methods, and student teaching supervision. Appointment and science teaching will be in the appropriate science department. Scholarship in the appropriate science field and/or teaching and learning, including research, publication, and external funding is expected. San Jose State University is a multicultural, metropolitan California State University in the Silicon Valley, with a wide array of academic programs for its diverse population of about 26,000 students. For additional information see website: http:// mastep.sjsu.edu. The position will remain open until filled. Curriculum vitae, statement of academic priorities including a description of pre-college teaching and science education interests, and three letters of reference must be received by March 31, 1999, for the first round of reviews. Send to: **Dr. John O. Matson, College of Sci**ence, San Jose State University, San Jose, CA 95192-0099. SJSU is an Equal Opportunity/Affirmative Action Employer. Reasonable accommodations are available for applicants with disability.

FACULTY POSITION VIROLOGY/IMMUNOLOGY UNIVERSITY OF PITTSBURGH

The Department of Infectious Diseases and Microbiology of the Graduate School of Public Health, University of Pittsburgh, is seeking outstanding applicants for tenure-track positions as ASSISTANT/ASSOCIATE PROFESSORS in the areas of the molecular biology and immunology of HIV/SIV, herpesviruses, and hepatitis viruses. The Department is committed to continued development of a strong multidisciplinary program wherein molecular biology, immunology, and the epidemiology of viral disease are integrated with ongoing clinical, natural history, and vaccine studies. Candidates should have a Ph.D., M.D., or equivalent, and have sufficient experience to establish a funded independent research program that integrates basic virology and/or immunology with clinical medicine and public health. Salary and starting date are negotiable. Send curriculum vitae and names of three references to: Charles R. Rinaldo, Jr., Ph.D., Chairman, Infectious Diseases and Microbiology Search Committee, A427 Crabtree Hall, University of Pittsburgh, Graduate School of Public Health, Pittsburgh, PA 15261. Telephone: 412-624-1637; FAX: 412-624-4953; e-mail: rinaldo+@pitt.cdu. Applicants for these positions should refer to job numbers 009609/009610. To ensure full consideration of all applicants, applications will be reviewed until the positions are filled. The University of Pittsburgh is an Affirmative Action/ Equal Opportunity Employer.

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Creighton University invites applications for a one-year appointment at the rank of Assistant Professor to begin in August 1999. The position is for a Freshwater or Marine Ecologist, with Ph.D., who can teach marine and freshwater ecology (with a field laboratory) in the fall semester and environmental science (lecture) and zoology (with laboratory) in the spring semester. Research and supervision of undergraduate projects are encouraged. To apply, a (1) curriculum vitae, (2) statements on teaching philosophy and research interests, (3) documentation of teaching effectiveness (if available), (4) undergraduate and graduate transcripts, and (5) three letters of references must be received by March 29, 1999. Please direct inquiries and application materials to: Dr. John F. Schalles, Chair, Department of Biology, Creighton University, Omaha, NE 68178-0103 USA. Creighton is a Jesuit, Catholic institution that seeks qualified applicants from all back grounds who believe they can contribute to the university's outstanding educational traditions. We encourage applications from women and minorities

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ASSISTANT PROFESSOR BIOLOGY FACULTY POSITION

King's College, Wilkes-Barre, Pennsylvania has an opening for an Assistant Professor of biology beginning with the fall 1999 semester. This is a non-tenure-track appointment, renewable annually for a total of six years. The successful applicant will hold the Ph.D. and be generally trained in evolutionary biology with expertise in molecular biology or neurobiology. The successful applicant will teach introductory and upper-level courses for majors, develop evolution modules for upper-level general education courses in biology, and supervise undergraduate research.

A letter of application, stating teaching and research interests, a curriculum vitae, academic transcripts, and three letters of professional reference should be submitted to: William A. Shergalis, Ph.D., Dean of the College of Arts and Sciences, King's College, Wilkes-Barre, PA 18711. The screening of applications will begin on March 29, 1999, and continue until the position is filled. King's College, sponsored by Congregation of Holy Cross, is an Equal Opportunity Employer.

The Center for Genetic and Cellular Therapies at Duke University Medical Center is seeking a tenure-track AS-SISTANT or ASSOCIATE PROFESSOR to join a growing group of Investigators focused on developing novel therapeutics in an exciting medical environment. Individuals working in the areas of combinatorial chemistry (using nucleic acid, peptide, or small molecule libraries) are especially encouraged to apply. The applicant should possess a Ph.D. and/or M.D. and postdoctoral experience. Individuals applying for an Associate Professor–level position should have a proven track record at developing a well-funded and innovative research program. The successful applicant will be provided a generous start-up package and a faculty appointment in the appropriate department. Applicants should submit their curriculum vitae, names of three references, as well as a short description of their future research interests to: Bruce A. Sullenger, Ph.D., Director of Discovery Research, Center for Genetic and Cellular Therapies, Box 2601, Duke University Medical Center, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

MARINE ECOLOGIST

The Department of Biology at the University of South Florida (USF) seeks a nine-month, tenure-track ASSIST-ANT PROFESSOR to begin in August 1999, contingent upon funding. We are interested in Marine Ecologists who are committed to work in Florida habitats. The Tampa Bay area offers subtropical marine habitats including estuarine and coastal seagrass beds and mangrove ecosystems. Tropical coral reefs of the Florida Keys are five hours away. The Florida Institute of Oceanography and Department of Marine Science in St. Petersburg, Florida maintain active marine research programs and a facility in the Florida Keys. Candidates must have a Ph.D. in one of the biological sciences; postdoctoral experience is preferred. The successful candidate is expected to develop a strong record of extramurally funded research, and teach undergraduate classes in the areas of marine ecology and environmental science, graduate classes in their area of expertise, and participate in the Environmental Sciences and Policy Program. USF is a large metropolitan university ranked as a Carnegie Institute Research Level Two Institution. The Biology Department consists of 32 faculty members, three full-time Instructors, 1,800 undergraduate majors, and more than 100 Doctoral and Master's students. To apply, send a curriculum vitae, reprints of three published papers, statements of research and teaching interests, and three letters of reference, to: Marine Ecologist Search Committee, Department of Biology, SCA 110, University of South Florida, 4202 East Fowler Avenue, Tampa, FL 33620-5150. Completed applications must be received by March 19, 1999. Further information on the department and this position can be found at website: http://www.cas.usf.edu/ biology. The University of South Florida is an Equal Opportunity/Affirmative Aciton/EA Institution. For disability accommodations, please Telephone: 813-974-3250.

Applications are invited for a full-time tenure-track AS-SISTANT/ASSOCIATE PROFESSOR in the Institute of Cell Biology, University of Manitoba commencing September 1, 1999, or as soon thereafter as possible. Depending on the area of specialization, an appointment with an appropriate academic Department will also be available. Successful candidates are expected to establish an outstanding independent research program and participate in graduate teaching in a Cancer Reseach group. Qualifications include a Ph.D., M.D., or equivalent with at least three years of postdoctoral experience. Preference will be given to candidates with a strong research background compatible with current programs including DNA repair, programmed cell death, development, cell cycle, or signal transduction. Applicants must have obtained a significant publication record in peer-reviewed iournals.

Applicants should send a curriculum vitae, an outline of research plans, and the names of three references to: Dr. Arnold H. Greenberg, Manitoba Institute of Cell Biology, 100 Olivia Street, Winnipeg, Manitoba R3E 0V9 Canada. Deadline for receipt of applications is March 31, 1999.

The University of Manitoba encourages applications from qualified women and men, including members of visible minorities, Aboriginal peoples, and persons with disability. Priority consideration will be given to Canadian citizens and permanent residents.

Northwestern University Medical School invites applications and nominations for two ENDOWED PRO-FESSORSHIPS in the Department of Pathology. The Department, in conjunction with the Medical School, has embarked on a major recruiting initiative to build on its present strengths and establish a vigorous interdepartmental program over the next few years. We are looking for individuals (M.D., M.D./Ph.D., or Ph.D.) with outstanding scholarship and an internationally recognized research program, demonstrated record of consistently strong extramural research support, and a commitment to excellence in graduate/postdoctoral education. Areas of preferred interest are molecular genetics, mechanisms of carcinogenesis, including cancer biology, cell cycle regulation, and gene expression. Send current curriculum vitae, a statement describing accomplishments and future direction, and the names of five references to: Janardan K. Reddy, M.D., Chairman, Department of Pathology, Northwestern University Medical School, 303 ast Chicago Avenue, Chicago, IL 60611.

Northwestern University is an Equal Opportunity/Affirmative Action Employer; women and minority candidates are encouraged to apply. Hiring is contingent upon eligibility to work in the United



Ciphergen

RESEARCH SCIENTISTS

Ciphergen Biosystems is currently expanding its US operations and is looking for ambitious, commercially-minded Ph.D. biochemists/biologists with excellent communication skills and proven problem solving abilities, at the following locations: Seattle, San Francisco Bay Area, San Diego, Chicago, Indianapolis, St. Louis, Boston, Pennsylvania, New Jersey, New York, Washington, D.C., Research Triangle Park in North Carolina and Austin, TX.

Preferably you will have experience in cell biology, including gene expression and protein purification. Expertise with one or more of the following endeavors is highly desirable:

Receptor - ligand interactions Molecular immunology/virology Protein biochemistry Immunoassay development

Your role will involve identifying new clients in both industry and academia, developing new protocols and rapidly solving important biological problems using Ciphergen's proprietary SELDI ProteinChip™ array technology.

As well as being a talented research scientist, capable of strong analytical thinking and creativity, you will need good leadership and interactive skills as well as the ability to communicate effectively at all levels.

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

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

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

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ASSISTANT PROFESSOR OF BIOLOGY THE UNIVERSITY OF WISCONSIN-PLATTEVILLE

The Department of Biology invites applications for a tenure-track position of Assistant Professor of biology. A candidate must have a Ph.D. by August 22, 1999, with coursework, training, teaching experience, and research in molecular biology. Major teaching responsibilities will include teaching cell and molecular biology, biotechnology, as well as courses in general biology, botany, or zoology. Background in plant molecular biology desirable. Experience in the use of molecular/biotechnology instrumentation and techniques necessary. Preference will be given to applicants who demonstrate excellence in undergraduate teaching and research.

Salary: \$35,000 to \$40,000, commensurate with experience.

Position begins on August 22, 1999. Applications must be received by March 26, 1999. An application must consist of a letter of interest, current résumé, all transcripts, statement of teaching philosophy, statement of research interests, and the names, addresses, and telephone numbers for each of four references, including one student. Send applications to:

Professor Marilyn J. Tufte
Chair, Search and Screen Committee
Department of Biology
University of Wisconsin-Platteville
1 University Plaza
Platteville, WI 53818
Telephone: 608-342-1664
E-mail: tuftem@uwplatt.edu
FAX: 608-342-1427
Website: www.uwplatt.edu

UW-Platteville is an Affirmative Action/Equal Opportunity Employer. Minorities and women are especially encouraged to apply. The names of nominees and applicants who have not requested in writing that their identity be kept confidential, and of all finalists, will be released upon request.

MOLECULAR SCIENTIST UNIVERSITY OF OKLAHOMA COLLEGE OF PHARMACY

The University of Oklahoma College of Pharmacy invites applications for a tenure-track position in the Department of Pharmaceutical Sciences, which comprises the disciplines of medicinal chemistry, nuclear pharmacy, pharmaceutics, pharmacology, and toxicology. We are seeking a Pharmaceutical Scientist with expertise in molecular approaches for the study of drugs and/or disease states. Applicants should have a Ph.D. and postdoctoral experience in their discipline. A background in pharmacy is desirable. Applicants should be strongly motivated to maintain a vigorous, externally funded research program and highly committed to professional and graduate teaching. Appointment at the ASSISTANT or ASSOCIATE PROFESSOR level will be considered, depending on the experience of the applicant. Applicants should submit a curriculum vitae, a statement of research interests, and the names and addresses of three references to:

Lester A. Reinke, Ph.D.
Department of Pharmaceutical Sciences
College of Pharmacy
University of Oklahoma Health Sciences Center
Box 26901
Oklahoma City, OK 73190

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

ASSISTANT PROFESSOR OF BIOCHEMISTRY

The Department of Biochemistry at Midwestern University invites applicaitons for a full-time, tenure-track faculty position at the rank of Assistant Professor. Applicants must have a Ph.D. and at least two years of postdoctoral training. The successful candidate will be expected to teach in biochemistry courses for medical, pharmacy, and allied health students and to develop and maintain an externally funded research program. Interested applicants should submit a curriculum vitae, summary of research interests and plans, teaching experience, and the names and addresses of four references to: Lon Van Winkle, Ph.D., Professor and Chair of Biochemistry, Midwestern University, 555 31st Street, Downers Grove, IL 06515. Equal Opportunity Employer/Minorities/Females/Disabled/Veteraus.

POSITIONS OPEN

The Department of Microbiology and Immunology at the University of Oklahoma Health Sciences Center invites applications for a tenure-track position at the AS-SISTANT PROFESSOR level in the discipline of viral immunology. Qualifications include a Ph.D. degree and postdoctoral training. The successful candidate will be expected to develop an extramurally funded research program and participate in team-taught medical, dental, and graduate courses in the areas of virology and immunology. The Department consists of 15 full-time faculty and maintains a multimillion-dollar research budget generated from more than 40 extramural grants and contracts. An outstanding training program is in place that supports 14 Postdoctoral Trainees and 33 graduate students. The Department was recently awarded a nonhuman primate research resource program from the National Institutes of Health, whose resources are available for Investigator-initiated studies. The Department already has a strong research component in HIV and AIDS vaccine research and individuals in these areas are encouraged to apply; however, outstanding scientists in all areas of viral immunology will be considered. Renowned Immunologists from the Oklahoma Medical Research Foundation and the Dean McGee Eve Institute interact in a close working relationship and provide the potential for additional interactions with prospective faculty candidates. For an overview of the Department, visit our website: www. ouhsc.edu/mi/. Submit a curriculum vitae, description of research interests, teaching experience, and the names of three references to: Ronald C. Kennedy, Ph.D., Chair of the Search Committee, Department of Microbiology and Immunology, P.O. Box 26901, University of Oklahoma Health Sciences Center, Oklahoma City, OK 73190. Applications will be reviewed beginning April 1, 1999. The University of Oklahoma is an Equal Opportunity/Affirmative Action Employer. Applications from women and ethnic minorities are strongly encouraged.

ASSOCIATE MEMBER (ASSISTANT PROFES-

SOR). The Department of Pharmacology at Fox Chase Cancer Center is accepting applications for a tenure-track position at the level of Associate Member (Assistant Professor). Applicants with interests in mechanisms of action of chemotherapeutic agents, drug resistance, signal transduction, apoptosis, pharmacogenetics, and pharmacodynamics are especially encouraged to apply. Qualified applicants at more senior levels will also be considered. The successful candidate is expected to demonstrate outstanding research potential and to develop a robust, independently funded research program.

Fox Chase Cancer Center is one of only 34 Comprehensive Cancer Centers designated by the National Cancer Institute and is one of the premier cancer research institutes in the nation. The institute offers a highly competitive recruitment package, with generous start-up funds and state-of-the-art core facilities including flow cytometry, transgenics, confocal/electron microscopy, cytogenetics, statistics, protein analysis and structure, DNA sequencing and synthesis, and synthetic chemistry.

Applicants should send a current curriculum vitae, a two-page summary of research interests, and the names of three references to: Ms. Pat Kraus, Department of Pharmacology, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

Biochemistry faculty position. The Department of Chemistry at the University of Wisconsin-Milwaukee anticipates opening a tenure-track position in biochemistry. An appointment will be made at the ASSISTANT PRO-FESSOR level. A Ph.D. is required for this position and postdoctoral experience is desirable. The successful candidate will be required to provide evidence of scholarly achievements in peer-reviewed journals, promise of successful grantsmanship, and a strong interest in undergraduate and graduate teaching. Applicants are preferred who can strengthen Departmental expertise in the biochemistry and molecular genetics of essential and toxic metals. To be considered, a curriculum vitae with a research plan, an outline of teaching philosophy, and three letters of recommendation must be mailed to: Professor J. M. Cook, Chair, Department of Chemistry, University of Wisconsin-Milwaukee, P.O. Box 413, Milwaukee, WI 53201. FAX: 414-229-5530; e-mail: capncook@ csd.uwm.edu and postmarked by March 26, 1999. The names of those applicants who have not requested that their identities be withheld and the names of all finalists will be released upon request. The University of Wisconsin-Milwaukee is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR of weed physiology available in Department of Crop Sciences, University of Illinois at Urbana-Champaign. Weed Physiologist posi-tion with emphasis on research and teaching of physiological, biochemical, and molecular principles of weed science. Nine-month tenure-track position; opportunity for summer appointment. Responsibilities 70 percent research, 30 percent teaching. Ph.D. in weed science, plant physiology, agronomy, or related discipline required. Postdoctoral experience desired. Excellent interpersonal and communication skills; demonstrated ability to conduct independent research, and clear ability and desire to excel in classroom teaching. Salary commensurate with training and experience. Starting date August 21, 1999, or when available. For full consideration, applications accepted until April 30, 1999. Submit application packet consisting of introductory cover letter, curriculum vitae, and statement of teaching and research goals. Arrange for receipt of full set of certified university transcripts, three letters of reference, and the packet by: Professor G. H. Heichel, Head, Department of Crop Sciences, University of Illinois at Urbana-Champaign, 1102 South Goodwin Avenue, Urbana, IL 61801. Telephone: 217-333-9480. For additional information and full job announcement contact: Dr. Edward W. Stoller, Search Committee Chair, Telephone: 217-333-9654; FAX: 217-333-5299; e-mail: estoller@uiuc.edu. Cite announcement number 01/99B-6425 when applying. Affirmative Action/Equal Opportunity Employer.

NEUROANATOMIST/ ASSISTANT PROFESSOR

The Department of Anatomy and Cell Biology seeks applications for a tenure-track faculty position beginning September 1, 1999. Requires a Ph.D. or equivalent and sufficient teaching and research experience to coordinate a neuroanatomy course for medical and graduate students. Candidates are expected to develop a strong, independent research program with external funding; start-up funds available. Must be eligible for employment under Immigration Reform and Control Act. Send curriculum vitae, teaching experience, statement of current and future research plans, and three letters of reference to: Dr. Bill Meek, Department of Anatomy and Cell Biology, Oklahoma State University College of Osteopathic Medicine, 1111 West 17th Street, Tulsa, OK 74107. Website: http://osu.com.okstate.edu. Candidates should respond by May 15, 1999; position open until filled. OSU is an Affirmative Action/Equal Opportunity Employer.

ORNAMENTAL IPM/EXTENSION SPECIALIST. The Department of Entomology, University of Maryland seeks tenure-track ASSISTANT PROFESSOR (80 percent extension; 20 percent instruction) to develop IPM programs for greenhouse, nursery, turf, and landscape industries, conduct research in conjunction with extension duties, and teach undergraduate course in ornamentals and turf IPM. Essential qualifications include Ph.D. in entomology or related field, postdoctoral research experience with ornamental/turf preferred. Submit letter of application with statement of interest and goals, curriculum vitae, university transcripts, names, addresses, and telephone numbers of five references by March 15, 1999, to: Shirley Donkis, Department of Entomology, University of Maryland, MD 20742. For details, Galen Dively, e-mail: gd7@umail.umd.edu. University of Maryland is an Affirmative Action/Equal Opportunity Employer, encouraging women and minority applicants.

The Department of Neurology at The University of Iowa College of Medicine is recruiting new faculty. A distinctive research background and commitment to research career are essential. Appointees are expected to conduct an active program of neuroscientific investigation. Areas of special emphasis include movement disorders, epilepsy, neuroimmunology, neuromuscular disorders, dementia, pain, and neuroimaging. All faculty serve in full-time status. Successful candidates will have an M.D. and/or Ph.D.

Apply to: Dr. Antonio R. Damasio, M.D., Professor and Head, Department of Neurology, The University of Iowa, 200 Hawkins Drive, Iowa City, IA 52242.

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

NATIONAL INSTITUTES OF HEALTH National Center for Research Resources ASSOCIATE DIRECTOR FOR BIOMEDICAL TECHNOLOGY



The National Center for Research Resources invites applications for the position of Associate Director for Biomedical Technology (ADBT), NCRR, NIH. The ADBT is responsible for directing the Biomedical Technology area and developing and implementing plans to enable NCRR to enhance the effectiveness of the Center's programs in biotechnologies, while providing scientific leadership in the planning, formulation, program review, development and evaluation of all activities that are encompassed by this area, all of which impact the conduct of biomedical research at the National level. The ADBT integrates the programs into the NIH agenda and establishes priorities for using these programs to achieve NIH's and NCRR's long-range objectives.

Applicants must have a Doctor of Medicine or a Ph.D. in one of the health sciences or biomedical engineering (or equivalent combination of experience and training) plus senior level medical/biomedical research experience that demonstrates the following mandatory qualifications: (1) Knowledge and ability to lead a scientific program of national and international scope involving bioengineering and biotechnology. This includes managing a large, multi-disciplinary biotechnology research program as it relates to biomedical/ biobehavioral research or research administration related to diseases, disorders or conditions. (2) Demonstrated ability to provide leadership and broad vision to a large extramural research program with extensive managerial and executive level responsibilities (i.e., training, research resources, strategic planning, budgeting, and human resource management), in a diverse organization. (3) Knowledge and experience with state-of-the-art instrumentation and technologies and their potential application to biomedical research, and a scientific stature sufficient to lead this important area and advise the Director and senior executive staff within and outside the Center on issues affecting the Biomedical Technology program. This is a permanent full-time position with a salary range of \$110,351 to \$125,900 per annum commensurate with qualifications. Physicians may be eligible for a Physician Comparability Allowance ranging from \$5,000 to \$20,000 per year. A recruitment bonus of up to 25% of base pay may be available to a non-federal selectee for this position. A relocation bonus of up to 25% of base pay (subject to approval) may be available to a permanent Federal employee who must relocate to accept this position. A one year probationary period must be served by the individual selected if not currently or previously in the Senior Executive Service.

Send applications to Ms. Pathenia Wiggins, National Institutes of Health, National Center for Research Resources (NCRR), 9000 Rockville Pike, Building 31, Room 3B43, Bethesda, MD 20892. For application forms and a copy of the requirements contact Ms. Wiggins at NCRR on (301) 496-1524. Deadline for applications is **April 5**.

<u>Public Health Service Commissioned Officers</u> interested in performing the duties of the position within the Commissioned Corps may submit a resume to the above address.

- Applicants with access to Internet's Worldwide Web may browse the NIH Home Page to view the full text vacancy announcement at http://helix.nih.gov:8001/jobs/
- OPM now requires five executive core qualifications be met by individuals being recommended for appointment to the SES. Information about these
 qualifications can be requested from the NCRR Personnel Office or found on the Web at: http://www.opm.gov/ses/html.ecq4.htm
- Applicants may browse the NCRR Home Page at http://www.ncrr.nih.gov
- Applicants may e-mail materials to patw@ncrr.nih.gov

NIH is an Equal Opportunity Employer

IMMUNOLOGIST/VACCINE DEVELOPMENT

As a world leader in biological and pharmaceutical research, Merck & Co., Inc. was recently ranked by Fortune as one of "The 100 Best Companies to Work for in America." Merck Research Laboratories in West Point, PA, has an immediate opening for a Senior Research Immunologist in the department of Developmental Human Vaccine Serology.

The successful candidate will report to the Director of Developmental Human Vaccine Serology, which is responsible for all aspects of serological assays and data generated during clinical trials in support of vaccine development. In addition to developing, validating, and conducting validated serological assays in a regulated (GMP/GLP) laboratory, the successful candidate will assume responsibility for establishment and management of many collaborations with external laboratories, as well as for assay development and data management activities related to these collaborations.

A Ph.D. or equivalent in immunochemistry, immunology, or related field with experience in solving analytical problems, immunological or serological assays, and immunochemical techniques are required.

Excellent salary and benefit programs accompany this position at our modern research facilities located 25 miles northwest of Philadelphia. Please send curriculum vitae with cover letter and the names of three references to: Merck Research Laboratories, Ad MO-A178, WP26-171, P.O. Box 4, West Point, PA 19486. Only candidates considered for interviews will receive responses. We are an equal opportunity employer, m/f/d/v.







POSTDOCTORAL POSITION SIGNAL TRANSDUCTION BY MITOGENIC RECEPTORS

A postdoctoral position is available to study signal transduction pathways activated by neuropeptide and growth factor receptors in astroglial brain tumors. The role of these mitogenic receptors in stimulating the growth and survival of astroglial cells is being investigated using molecular, biochemical and pharmacological approaches. Candidates should have strong research experience and a Ph.D. in Molecular Biology, Biochemistry or a related field. Interest in cancer research is a plus.

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

Send a letter of interest, curriculum vitae and names of three references to: Dr. M. Sharif, Department of Molecular Pharmacology, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, Tennessee 38105. Fax: (901) 521-1668.

An Equal Opportunity/Affirmative Action Employer

EXECUTIVE DIRECTOR BIOLOGICAL SCIENCES CURRICULUM STUDY

The Biological Sciences Curriculum Study (BSCS) invites applications and nominations for the position of Executive Director to begin service on or after 1 August

The mission of BSCS, a 501(c)(3) nonprofit organization founded in 1958, is to improve students' understanding of science through the development of exemplary curricula, by supporting their widespread and effective use, and by professional development. The Executive Di-rector reports directly to the Chairman of BSCS's board of directors and is the Chief Executive Officer, providing leadership and direction for approximately 25 full-time staff and managing an annual operating budget of about \$3 million. The responsibilities of the Executive Director include development and implementation of long-range programmatic and strategic plans, recruitment and men-toring of key staff, acquisition of public- and privatesector funds for programs and endowment, and management of institutional resources to ensure appropriate support for BSCS's programs and activities.

Qualified applicants should have an advanced degree in science (perferably biology) or science education, sub-stantial management experience in the academic or nonprofit sector, familiarity with major issues in American science education, extensive contacts in the scientific and science-education communities, demonstrated success in proposal development and fund raising, and excellent skills in oral and written communication. Experience with educational publishing is desirable. This position provides a competitive salary and excellent benefits.

Review of applications will begin 26 March 1999 and will continue until the position is filled. Qualified candidates should send a curriculum vitae; letter of application; and names, telephone numbers, and e-mail addresses of three references to:

Biological Sciences Curriculum Study Attn: Search Committee, E.D. #3 5415 Mark Dabling Boulevard Colorado Springs, CO 80918

No telephone calls. To learn more about BSCS, see our website: www.bscs.org. BSCS is an Equal Opportunity Employer.

CISTEM MOLECULAR CORPORATION

CIStem is a privately held, San Diego, California-based start-up biotechnology company focused on gene regulation. Using proprietary high-specificity molecular technologies, ČIŠtem is cloning, patenting, and commercializing CIS-acting sites and agents that bind to those sites. To become a part of this dynamic start-up team, please consider the following career opportunities:

SENIOR SCIENTISTS

We are looking for two senior Molecular Biologists with solid knowledge and hands-on experience with recombinant DNA technologies. Candidates must have a Ph.D. (or equivalent) in molecular biology or biochemistry and five to 10 years of relevant laboratory experience. Experience with random DNA/RNA libraries and/or cell and subcellular organelle preps is highly preferred. Strong computer skills required; management experience a plus.

RESEARCH ASSOCIATES

We are also seeking two Research Associates to work as part of this research team. Candidates must have a B.S./ M.S. in molecular biology or biochemistry and two-plus years of relevant laboratory experience.

CIStem offers competitive salaries and benefits. Please FAX or e-mail a detailed résumé and salary history referencing the desired position to: CIStem Molecular Corporation, FAX: 619-613-3870; e-mail: acrossway@ juno.com. Equal Opportunity Employer.

Biology. Nebraska Wesleyan University, a select undergraduate liberal arts institution, seeks tenure-track AS-SISTANT PROFESSOR, August 1999. Ph.D. required; teaching experience desirable. Teach embryology/developmental biology, perhaps zoology, human anatomy/physiology; supervise student research. Applications review begins March 19, 1999. Send letter, curriculum vitae, three reference letters, transcripts to: Dr. Dale Benham, Department of Biology, Nebraska Wes leyan University, 5000 St. Paul Avenue, Lincoln, NE 68504. Website: http://biology.nebrwesleyan.edu. Nebraska Wesleyan is an Equal Opportunity Employer and seeks a culturally diverse faculty.

POSITIONS OPEN .

LABORATORY POSITIONS IN BIOLOGY/BIOCHEMISTRY SMITH COLLEGE

Department of Biological Sciences

Candidates with a Master's degree and appropriate experience are sought for the following positions:

Laboratory Instructor/Microscopy Technician: This full-time, 12-month position will have responsibility for laboratory instruction primarily in the areas of cell biology, histology, and fine structure and oversee a multidisciplinary micros-copy facility. The microscopy facility includes scanning and transmission electron microscopes, a confocal microscope, and diverse sample preparation equipment. The successful candidate will be expected to teach two laboratory sections per week (in addition to attending lectures, holding office hours, and supervising laboratory preparation); perform routine maintenance and troubleshooting of instrumentation; provide training to a diverse group of faculty and students in microscopy and darkroom techniques. Salary is \$35,000 with full benefits.

Laboratory Instructor: This half-time, 10month position will have responsibility for laboratory instruction primarily in the year-long biochemistry course. Laboratory Instructors are expected to attend lectures, hold office hours, and supervise laboratory preparation in addition to teaching laboratory sections. Salary is \$17,500 with three-quarters benefits.

Review of applications will begin April 2, 1999, and continue until the positions are filled. Forward a letter of application, résumé, and three professional references to: Suzanne Beaumier, Department of Biological Sciences, Smith College, Northampton, MA 01063. Smith College is an Equal Opportunity Employer encouraging excellence through diversity.

STAFF SCIENTIST

The Matrix Metalloproteinase Unit of the National Institute of Dental and Craniofacial Research is conducting a national search for a collaborative Staff Scientist in the area of genetic approaches to extracellular matrix remodeling. The Unit is focused on understanding the molecular mechanisms and regulation of extracellular matrix catabolism. Specifically the applicant will be exploring the biologic function of specific matrix metalloproteinases in health and disease.

Under the NIH collaborative Staff Scientist Program, the position would be (somewhat) equivalent to the Research Assistant Professor level. The selectee will work cooperatively in the context of the program on projects designed and developed by an independent Investigator and will not control independent resources. A variety of employment mechanisms are available. Salary is commensurate with qualifications and experience. Applicants must have a Ph.D., M.D., D.D.S.-D.M.D., or equivalent with research experience and/or training in genetic approaches to extracellular matrix biology. Specifically, the applicant must have experience with the generation and characterization of knockout, knockout/knockin, and conventional transgenic mice.

Applicants may apply by submitting the following materials: a curriculum vitae, bibliography, and names of three to six individuals who can supply letters of recommendation. Further information about the position may be obtained from: Ms. Sharon Wentzel, Intramural Program Specialist, NIDCR, Building 30, Room 132, 30 Convent Drive MSC4326, Bethesda, MD 20892-4326. Telephone: 301-496-1483.

Application materials must be postmarked and sent to Ms. Wentzel by the closing date of March 19, 1999. The opening date is February 19, 1999. NIH is an Equal Opportunity Employer.

RESEARCH MOLECULAR GENETICIST Plants. The incumbent will determine and characterize genetic and environmental factors and molecular mechanisms controlling weedy characteristics in plants. Go to website: http://www.ars.usda.gov/afm/hrd/resjobs/S9W-9144.HTM for more information. *The* USDA is an Equal Opportunity Provider and Employer.

POSITIONS OPEN

HEALTH SCIENTIST ADMINISTRATOR/ VETERINARY MEDICAL OFFICER NATIONAL INSTITUTES OF HEALTH National Center for Research Resources

The National Center for Research Resources (NCRR) invites applications for the position of Health Scientist Administrator/Veterinary Medical Officer, NCRR, NIH. The incumbent of this position will be responsible for providing technical leadership and scientific guidance in the planning, development, evaluation, and administration of resource grants and contracts for the comparative medicine area of the NCRR. Some of the major professional duties the incumbent performs include (1) negotiations with officials of the nation's universities and research institutions; (2) interpretation of policies and procedure; (3) identification of research animal resource needs; (4) advisor to grant officials concerning the development of plans for research animal resources; and (5) performing various other related scientific and administrative functions described below, including participation with senior scientists, department officials, and academic deans in the development research of resource programs involving interuniversity and institutional programs. Incumbent is required to be knowledgeable in various laboratory animal sciences, including genetics, molecular biology, and other relevant scientific areas.

Applicants are encouraged to address the following knowledge, skills, and abilities: (1) professional knowledge of principles, theories, and practices applicable to broad aspects of health-related research using animals; (2) ability to plan and manage major animal-oriented research programs involving complex administrative/management issues; (3) ability to synthesize information and to write clearly, logically, and persuasively on complex scientific topics for a diverse scientific and nonscientific audience; (4) ability to meet and interact with scientific health professionals and members of the lay community; (5) ability to organize, plan, and manage group meetings;(6) knowledge of federal grants and contract procedures and general administrative management process. This is a permanent full-time position with a salary range of \$68,570 to \$89,142 per annum commensurate with qualifications. A recruitment bonus of up to 25 percent of base pay may be available to a non-federal selectee for this position. A relocation bonus of up to 25 percent of base pay (subject to approval) may be available to a permanent federal employee who must relocate to accept this

Send applications to: Ms. Erin Bandak, National Institutes of Health, National Center for Research Resources, 9000 Rockville Pike, Building 31, Room 3B43, Bethesda, MD 20892. For application forms and a copy of the full announcement contact Ms. Bandak, National Center for Research Resources, Telephone: 301-496-1524. Deadline for applications is March 8,

Public Health Service Commissioned Officers interested in performing the duties of the position within the Commissioned Corps may submit a résumé to the above address.

Applicants with access to Internet's World Wide Web may browse the NCRR Home Page to view the full text vacancy announcement at website: http://www.nih.

NIH is an Eaual Opportunity Employer.

DATA CURATOR POSITION AVAILABLE FOR THE RCSB PROTEIN DATA BANK

The management of the Protein Data Bank (PDB) is moving from Brookhaven to the Research Collaboratory for Structural Bioinformatics (RCSB) at Rutgers University, UCSD, and NIST. A position is available at Rutgers University for a person to curate and standardize the representation of macromolecular structures for the PDB. Experience in structural biology and a working knowledge of UNIX is required. The successful candidate will be able to pay close attention to detail and meet stringent deadlines. This position offers the opportunity to participate in an exciting project with significant impact on the scientific community.

Please send a cover letter and curriculum vitae to: Dr. Helen M. Berman, Rutgers, The State University of New Jersey, Department of Chemistry, 610 Taylor Road, Piscataway, NJ 08854-8087. E-mail: pdbadmin@rcsb.rutgers.edu. Telephone: 732-445-0103; FAX: 732-445-4320.

THE NATIONAL CANCER INSTITUTE

SCHOLARS PROGRAM



A CAREER DEVELOPMENT PROGRAM PROVIDING OUTSTANDING NEW INVESTIGATORS

AN OPPORTUNITY TO ESTABLISH A FIRST INDEPENDENT RESEARCH PROGRAM

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

For more details, contact:

Lester S. Gorelic, Ph.D., Cancer Training Branch, National Cancer Institute 301-496-8580 ■ 301-402-4472 (Fax) ■ lg2h@nih.gov http://www.nci.nih.gov and click on "What's New."

POSTDOCTORAL

Argonne National Laboratory has several postdoctoral positions that are immediately available in the Genome Structure program directed by Dr. Andrei Mirzabekov. The program is developing oligonucleotide, DNA, and protein microarrays for applications in biology, medicine and biotechnology, in collaboration with the Engelhardt Institute of Molecular Biology. Postdoctoral candidates must have received their Ph.D. not more than 3 years prior to the start date of the appointment and must have a strong background in molecular biology, chemistry of nucleic acids and/or proteins, fluorescence detection, robotics, or computer science. Applicants are expected to have intensive collaboration with other scientists in the interdisciplinary program.

To apply, please send curriculum vitae and the names and addresses of three references to Jan Buckley, Employment and Placement, Box CMB-121412-43, Argonne, Illinois, 60439. Fax: (630) 252-9388. TDD: (630)

(630) 252-9388. TDD: (630) 252-7722. For additional information, see http://www.anl.gov/welcome.html. Argonne is an equal opportunity/affirmative action employer.



The National Institutes of Health The National Heart Lung and Blood Institute Medical Device Scientist for Imaging Applications

The Laboratory of Cardiac Energetics in the National Heart Lung and Blood Institute is searching for a staff scientist in biomedical imaging to support a new research group in novel modes of image acquisition. The candidate should have a Ph.D. in Electrical Engineering, Biomedical Engineering or related disciplines. The candidate should have experience in device design and construction. Experience in embedded systems design may also be an asset. A unique environment of image acquisition techniques, including magnetic resonance, optical, ultrasound, and radionuclide imaging methodologies, and computer hardware exist in this program. In addition, the laboratory has expertise in physiological and medical applications making this enviornment ideal for the development of novel functional imaging methods. The research focus in the lab is in interventional MRI, in vivo electrical and and mechanical measurements of cardiac function, and novel imaging techniques. Contract appointment and salary are dependent on experience. Applications should include a CV, brief statement of research interests, and three letters of reference. Applications are due 6 weeks after posting of this announcement. Send to: Dr. Robert Balaban, Building 10, Room B1D416, 10 Center Drive MSC 1061, Bethesda, MD 20892-1061.

NIH is an Equal Opportunity Employer.

The USDA-Agricultural Research Service announces a RESEARCH BIOLOGIST position at West Lafayette, Indiana. The incumbent will be located on Purdue University campus and will be responsible for initiating and developing research directed toward understanding how neuroscience relates to animal behavior and well-being. The individual will be part of a team conducting research on the behavior and well-being of food-producing animals. Research objectives will be to elucidate relationships among neuroanatomy/neurophysiology, cognition, animal learning, behavior and well-being of food-producing animals, and to develop quantitative indicators of neuro-anatomy/neurophysiology that define these relation-ships. Salary range is \$47,891 to \$74,035, per annum based on qualifications and experience. U.S. citizenship is required. For program information contact: Dr. Margaret Shea-Moore, Telephone: 765-494-6358. For the vacancy announcement and application procedures contact: Delisa Robinson, Telephone: 301-504-1399. Job announcement can be accessed via the Internet, website: http://www.usajobs.opm.gov/wfjic/jobs/BI0074. HTM. Incomplete applications will not be considered. ARS is an Equal Opportunity Employer

The University of Florida seeks an ASSISTANT SCIENTIST for the Division of Nephrology, Department of Medicine. This is a full-time, non-tenure-track position. Ph.D. degree and three years of experience with in vino microperfusion. Responsibilities include isolation and perfusion of nephron segments; measurement of net and isotopic fluxes and microanalysis of microdissected nephron segments; supervising graduate students and Laboratory Technicians; collaborating with other research scientists, Postdoctoral Research Fellows, and Clinical Fellows in the laboratory; overseeing the transport program of research; and writing grants seeking extramural research support. Salary and benefits commensurate with experience. Recruiting deadline: March 11, 1999. Anticipated start date: March 26, 1999. Please reply with curriculum vitae to: I. David Weiner, M.D., Associate Professor of Medicine, Department of Medicine, Division of Nephrology, Box 100224, JHMHC, Gainesville, FL 32610. An Equal Opportunity/Affirmative Action Employer.

MICROBIOLOGIST. Full-time, TENURE-TRACK. Starting August 1999. The successful candidate will have a Ph.D. and a commitment to excellence in teaching. Responsibilities: teach undergraduate courses in general microbiology, pathogenic microbiology, and immunology; share teaching responsibilities in introductory biology courses for majors and non-majors; student advisement and participation in college and professional activities. Supervision of undergraduate research students is desirable. Letter of application, statement of teaching philosophy, current curriculum vitae, graduate and undergraduate transcripts, and three letters of reference to: Dr. Steven Strazza, Department of Physical and Biological Sciences, The College of Saint Rose, 432 Western Avenue, Albany, NY 12203 by April 15, 1999. FAX: 518-458-5446. Equal Opportunity Employer/Affirmative Action.

RESEARCH BIOLOGIST. Molecular Biology Core Facility, Medical Research Section, Department of Veterans Affairs Medical Center, Washington, D.C. Specific aspects of the position include transcription, DNA transfections, tissue culture, subcloning, gel shift assays. Projects include transcription regulation, golgi transport, ligand/receptor interactions involving cytoskeletal proteins in signal transduction, molecular interactions in apoptosis. Position is a GS 12-13 open to U.S. citizens only. Candidates must have a Ph.D. and a strong background in molecular biology, protein biochemistry, genetics, or cell biology. Send cover letter, curriculum vitae, and three references to: Dr. L. Mishra, Director, Molecular Biology Core Facility, Institute for Clinical Research, P.O. Box 29545, Washington, DC 20017.

RESEARCH ASSOCIATE

The Division of Infectious Diseases of Children's Hospital Research Foundation, Cincinnati, Ohio is seeking a Molecular Virologist as a Research Associate to participate in ongoing studies on mechanisms of rotavirus immunity. The ideal candidate will have postdoctoral experience in virology and desire developing a career in molecular studies of enteric viruses. Send curricula vitae and the names of three references to: R. L. Ward, Ph.D., Division of Infectious Diseases, Children's Hospital, 3333 Burnet Avenue, Cincinnati, OH 45229. E-mail: wardd0@chmcc.org; FAX: 513-636-7682.

POSITIONS OPEN



STEM CELL PROGRAM

Genetica is a privately held biotechnology company founded by **Dr. David Beach** and **Dr. Greg Hannon**. We focus on technologies for the genetic manipulation of mammalian cells and are expanding our **POSTDOC-TORAL** program in the field of human stem cell research.

Applicants should write to: Judi Smith at Genetica, Inc., P.O. Box 99, Cold Spring Harbor, NY 11724. E-mail: smith@genetica1.com.

CHIEF, EXOBIOLOGY BRANCH

NASA–Ames Research Center expects to seek applications soon for Chief of the Exobiology Branch and desires letters of interest from potential candidates. The Branch Chief oversees a staff of more than 50 scientists engaged in basic chemical and microbiological research. Duties include directing the planning, initiation, implementation, and performance of research tasks in the origin, evolution, and distribution of organic matter and life in the universe. The Branch Chief provides leadership to foster ongoing and initiate new research consistent with the goals and objectives of NASA's exobiology and astrobiology programs. He/she represents and advocates Branch research activities to NASA management and the relevant scientific community. The Chief will also carry out his/her own research in areas relevant to Branch programs.

Strong candidates will typically have a Ph.D. and proven record of research output in exobiology and/or astrobiology. Successful management experience associated with the operation of a scientific research organization is expected. Experience in or familiarity with NASA program/mission activities is desirable. Candidates must have excellent communication and interpersonal skills and experience in developing, motivating, and leading a diverse workforce.

Candidates must be U.S. citizens. Civil service salary range is \$71,869 to \$109,895 per annum. Salary and GS level will be commensurate with experience. Letter of interest, curriculum vitae, list of publications, and names of three professional references should be sent to: Dr. Donald L. DeVincenzi, NASA-Ames Research Center, MS 245-1, Moffett Field, CA 94035-1000 by March 19, 1999. For more information about its programs, visit the Exobiology Branch website: http://www-space.arc.nasa.gov/ssx. NASA-Ames is an Equal Opportunity Employer.

ASSISTANT SCIENTIST POSTDOCTORAL FELLOW SENIOR TECHNICIAN Methodology Development

Utilizing microfabrication and automation, the successful candidate will work with a team in developing a third-generation scanning method for detecting the presence of unknown mutations. Additionally, will develop a method for measuring mutational load in humans. This work is conducted within a large academic laboratory, which investigates the mutational process in humans and which contains a clinical molecular diagnostic and a molecular epidemiology service.

Qualified candidates should send curriculum vitae, a

Qualified candidates should send curriculum vitae, a statement of goals, and three references to: Steve Sommer, M.D., Ph.D., City of Hope National Medical Center, Attn: D. Kappas, 1500 East Duarte Road, Duarte, CA 91010-3000. FAX: 626-301-8142. Equal Opportunity Employer.

MICROBIOLOGIST

Full-time faculty to instruct pathogenesis, immune response, prokaryotic physiology and genetics, virology. Ph.D. required and prepared to conduct undergraduate research program. Competition 99-4002 closes 1 p.m. Friday, April 16, 1999. Submit curriculum vitae, names of three referees, and a statement of teaching philosophy to: Human Resources, Malaspina University-College, 900 Fifth Street, Nanaimo, British Columbia V9R 585 Canada. E-mail: apply@mala.bc.ca; FAX: 250-755-8702. See website: www.mala.bc.ca for more information. Canadian citizens and permanent residents of Canada network.

POSITIONS OPEN

The Eppley Institute for Research in Cancer of the University of Nebraska Medical Center is seeking candidates for a DIRECTOR of its Nuclear Magnetic Resonance Core Facility. This is a research-track position. The Director is responsible for the supervision of the facility, the operation of high-field NMR instruments, collection and primary interpretation of the NMR data on biologically important molecules, instrument training of the facility users, software and hardware maintenance, and planning for future NMR requirements. Applicants should hold a Ph.D. in chemistry or biochemistry, or have an equivalent combination of education and research experience, and have a track record in the use of high-field NMR in the structural analysis of macromolecules. The Director is expected to interact with a multidisciplinary group of scientists and collaborate on research projects involving solution structure determination of proteins, peptides, carbohydrates, and other macromolecules. In addition, the Director is expected to have an interest in professional growth through technique development and collaborative activities.

Salary is very competitive and consistent with the level of experience of the candidate.

Applicants should send their résumé, three reference letters, and a cover letter to: Dr. Barry Gold, Interim Director, Eppley Institute, University of Nebraska Medical Center, 600 South 42 Street, Omaha, NE 68198-6705.

The University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer.

WATER QUALITY MODELER MARINE BENTHIC ECOLOGIST

The Southern California Coastal Water Research Project Authority (website: www.sccwrp.org), a nonprofit aquatic research agency, announces openings for two full-time research positions. The first position is for a Water Quality Modeler with experience in waste load allocation and TMDL implementation. We are particularly interested in candidates who can develop/refine water quality models to address intermittent flow conditions encountered in arid environments. The second position is for a Marine Benthic Ecologist specializing in contaminant effects on infaunal abundance and distribution.

The successful applicants will be asked to develop a research program in their area of interest and enhance their research through attraction of extramual funding. Preferred candidates for both positions will possess a Ph.D. and up to five years of experience. Demonstrated quantitative skills are also desirable. Applicants should submit a résumé, two reprints, and the names of three references to: David Caldwell, Administrative Officer, Southern California Coastal Water Research Project Authority, 7171 Fenwick Lane, Westminster, CA 92683. Application review will begin March 31, 1999.

ASSOCIATE SPECIALIST

Full-time Associate Specialist in X-ray crystallography to carry out structural studies of allosteric enzymes and transcriptional regulators. Graduate experience in biological crystallography and demonstrated knowledge in the areas of enzymology and regulatory mechanisms is required. Candidate should be able to teach crystallographic techniques and maintain experimental hardware. Salary range: \$42,660 to \$51,372. Send résumé and description of research experience by March 19, 1999, to: Dr. Tom Alber, Department of Molecular and Cell Biology, University of California, 229 Stanley Hall, #3206, Berkeley, CA 94720-3206. The University of California is an Equal Opportunity/Affirmative Action Employer.

FUNGAL MOLECULAR GENETICIST/MICROBIOLOGIST—Ph.D.

Archer Daniels Midland (ADM) Fermentation Research is currently seeking a group leader with five to ten years of proven experience in cloning, characterizing, and overexpressing eukaryotic genes for primary/secondary metabolites in yeasts and molds. Communication skills and the ability to work in an interactive environment are important. ADM is a leading manufacturer of food and feed additives. For consideration forward résumé and names of three references to: Paul Hanke, Ph.D. Archer Daniels Midland Randall Research Center, 1001 Brush College Road, Decatur, IL 62526.

The National Institutes of Health The National Heart Lung and Blood Institute Signal Analysis Scientist

The Laboratory of Cardiac Energetics in the National Heart Lung and Blood Institute is searching for a staff scientist in biomedical imaging to support a new research group in image acquisition, analysis and modeling. The candidate should have a Ph.D. in Electrical Engineering, Biomedical Engineering or related disciplines. The candidate should have experience in image segmentation and reconstruction, parameter estimation and/or computer/mathematical modeling as evidenced by publications in major journals or professional experience. A unique environment of image acquisition techniques, including magnetic resonance, optical, ultrasound and radionuclide imaging methodologies, and computer hardware exist in this program. In addition, the laboratory has expertise in physiological and medical applications making this environment ideal for the development of novel functional imaging methods. Contract appointment and salary are dependent on experience. Applications should include a CV, brief statement of research interests, and three letters of reference. Applications are due 6 weeks after posting of this announcement. Send to: Dr. Robert Balaban, Building 10, Room B1D416, 10 Center Drive MSC 1061, Bethesda, MD 20892-1061.

NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS NIMH/DIRP

The National Institute of Mental Health (NIMH) invites applications for two postdoctoral positions in the Division of Intramural Research Programs (DIRP), Laboratory of Brain and Cognition. The NIMH has established a laboratory for research on fMRI contrast mechanisms, fMRI methods development, and novel applications of fMRI. Fellowships include full salary support plus research and travel expenses for up to five years. Basic facilities include research dedicated to a General Electric 3 Tesla and 1.5 Tesla EPI capable scanner(s) and an extensive computational infrastructure. Technical support will be provided. It is expected that fellows have experience with fMRI methods development and/or contrast mechanism research. Laboratory projects are aimed towards the goal of increasing the temporal resolution, spatial resolution, interpretability, and utility of fMRI. Functional MRI methods, including those involving blood oxygenation contrast (gradient-echo and spin-echo sequences), perfusion contrast (arterial spin-labeling sequences), and blood volume contrast (exogenous contrast agents), will be available. Human and animal research will be performed. Applicants should send a curriculum vitae, and three letters of recommendation by April 30, 1999, to:

> Dr. Peter Bandettini NIH/NIMH/DIRP, Bldg. 10, Rm. 4N-222 9000 Rockville Pike Bethesda, Maryland 20892 301-496-3501

The National Institute of Health is an Equal Opportunity Employer.



the University of Health Sciences

ANATOMIST/HISTOLOGIST - The

Department of Anatomy at *The University of Health Sciences College of Osteopathic Medicine* seeks to fill an **Assistant Professor** position. Applicants should have a Ph.D. in Anatomy with experience in teaching human gross anatomy (lecture and laboratory dissection). The person filling this position must have strong interest and commitment to teaching medical students. Other duties include scholarly work such as research or writing; active participation in departmental activities and professional development; service to the University on committees; and advising medical students. We are looking for a positive team player with exemplary professional characteristics.

Salary is dependent on qualifications and experience; excellent benefits. Qualified applicants should send their applications including curriculum vitae, a statement of teaching philosophy and scholarly interests, and the names and telephone numbers of three references to: Dawn M. Harrington, Director of Human Resources, *The University of Health Sciences-COM*, 1750 Independence Ave., Kansas City, MO 64106-1435. Pre-employment drug screen required.

An Affirmative Action/Equal Opportunity Employer

POSTDOCTORAL POSITION NIMH/DIRP

The National Institute of Mental Health (NIMH) invites applications for a postdoctoral position in the newly established 3 Tesla functional neuroimaging facility. Fellowships include full salary support plus research and travel expenses for up to five years. Basic facilities include a General Electric 3 Tesla EPI capable scanner and an extensive computational infrastructure. Technical support will also be provided. Fellows are expected to have experience with and interest in one or more of the following aspects of functional MRI development: stimulus delivery and subject monitoring, pulse programming, echo planar imaging, data acquisition, rf coil development, image reconstruction methods, fMRI post processing methods, and data transfer and archiving issues. Projects aimed at increasing the utility of fMRI from a technical development perspective will be pursued. Specific projects include development of real-time fMRI methods and applications of real-time fMRI capability; development of integrated stimulus delivery, physiological monitoring, and subject feedback processing environments; development of pulse sequences to simultaneously obtain multiple types of functional contrast (BOLD, flow, volume, perfusion, diffusion, metabolism); and development of high resolution fMRI capability with multi-shot or single shot imaging. Applicants should send curriculum vitae and three letters of recommendation by April 30, 1999, to: Dr. Peter Bandettini, NIH/NIMH/DIRP, Bldg. 10, Rm. 4N-222, 9000 Rockville Pike, Bethesda, Maryland 20892, 301-496-3501.

The National Institute of Health is an Equal Opportunity Employer.

TWO SABBATICAL REPLACEMENTS BIOLOGY UNIVERSITY OF RICHMOND

The Department of Biology at this highly selective liberal arts university invites applications for two nine-month Sabbatical Replacement positions to begin August 1999. We seek persons holding the Ph.D. in cell/molecular biology or organismal/evolutionary/ecological biology. Teaching assignments will include a combination of at least two different courses in the candidates' area of specialization and participation in the general education program and/or an introductory organismal biology course. Opportunities for collaborative research with biology faculty exist. Review of applications will begin March 20, 1999, and continue until appointments are made. Applicants should submit a curriculum vitae, statements of teaching philosophy and research interests, descriptions of proposed specialty courses, copies of graduate transcripts, and three letters of recommendation to: Dr. W. John Hayden, Department of Biology, University of Richmond, Richmond, VA 23173-9998. The University of Richmond is an Equal Opportunity/Affirmative Action Employer and strongly encourages women and minorities to apply for its

SCIENCE EXHIBIT DEVELOPER

The Museum of Science and Industry is recruiting a Developer to help produce exhibits. Responsibilities include project management, content research, evaluation, design development, and prototyping. Requirements include strong management skills and excellent communication abilities. A degree in an area of science or information design is desirable. Send letter, curriculum vitae, and description of exhibit interest to:

> Museum of Science and Industry Human Resources 57th Street and Lake Shore Drive Chicago, IL 60637 FAX: 773-684-0019

Equal Opportunity Employment/Affirmative Action/ADA.

TENURE-TRACK POSITION RANK OPEN LIFE SCIENCE EDUCATION

The Biology Department at Colorado State University invites applications from Biologists with expertise in education research. A Ph.D. is required. The successful candidate is expected to develop an externally funded research program in science pedagogy, to participate in undergraduate and graduate education, and participate in K-12 outreach.

To apply, send a letter stating teaching and research interests, a curriculum vitae, letters from at least three references (sent separately), and up to three publications to: Education Search Committee, Department of Biology, Colorado State University, Fort Collins, CO 80523 by 10 March 1999.

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

RESEARCH ASSOCIATE IN PHARMACOLOGY

Immediate opening at Southern Illinois University School of Medicine for a Research Associate. Will participate in NIH studies aimed at understanding brain mechanisms involved in alcoholism and epilepsy, and investigating the actions of agents affecting amino acid neurotransmitters and new anticonvulsant drugs. Minimum qualifications: Ph.D. in pharmacology or physiology. Desirable: Neurophysiology experience, especially in tissue slice and chronic animals. Submit résumé with names and addresses of three references to: Carl Faingold, Ph.D., Professor and Chairman, Department of Pharmacology, Southern Illinois University School of Medicine, P.O. Box 19629, Springfield, IL 62794-9629. Applications must be received by March 19, 1999, or until filled. Equal Opportunity/Affirmative Action.

POSTDOCTORAL POSITION available to study peptides regulating pituitary function. Individual will develop methods to quantitate neuroendocrine peptides. Experience in immunoassay development required. Additional skills include HPLC, SDS-PAGE, protein, and peptide purification. Position especially suited for individual with strong background in quantitative biochemistry. Send curriculum vitae and the names of three references to: Craig Jaffe, M.D., Division of Endocrinology and Metabolism, University of Michigan Medical Center, 3920 Taubman, 1500 Medical Center Drive, Ann Arbor, MI 48109-0354. E-mail: cjaffe@umich.edu.

POSITIONS OPEN

DIRECTOR OFFICE OF TECHNOLOGY TRANSFER UNIVERSITY OF SOUTH CAROLINA

The University of South Carolina (USC) is committed to the commercialization of technology and is seeking an individual to direct and manage the intellectual property and technology transfer activities of the University as Director of the Office of Technology Transfer.

The University of South Carolina received over \$90 million in sponsored programs during the past year and is committed to significant further research growth over the next few years and in the long term.

The Director will work with faculty to identify and evaluate University technologies and to identify companies interested in investing in University technology through licensing agreements and support of University research. Specific responsibilities include evaluating inventions for patentability; evaluating markets for the commercialization of patents, software, databases, and similar products and identifying potential licensees; developing business relationships based on University technologies; drafting and negotiating license agreements; pursuing expanded relationships with the corporate sector and increasing faculty-industry linkages.

Qualifications include: A technical background, ideally with a degree in a science or engineering field. At least five years of experience in patenting, licensing, and negotiation of contracts between universities, the corporate sector, and government. Working knowledge of engineering, the sciences, and business as applied to technology assessment, intellectual property protection, and technology commercialization. The University of South Carolina has designated its research foundation, the South Carolina Research Institute (SCRI), to manage all USC intellectual property and technology transfer matters. The successful candidate will be an employee of USC assigned to SCRI. The Director of Technology Transfer reports to the Executive Director of the SCRI who is also the Vice Provost for Research for the University. USC offers an excellent benefits package. Salary will be commensurate with experience and qualifications.

Applications should include a résumé, a letter describing how the candidate meets the requirements, and the names and addresses of three or more professional references and should be sent to: Mr. R. M. Bell, Director, South Carolina Research Institute, 901 Sumter Street, Columbia, SC 29208.

Applications will be accepted until the position is filled. Screening of candidates will commence April 1, 1999. The University of South Carolina is an Equal Opportunity/Affirmative Action Organization

SENIOR SCIENTIST LIFE TECHNOLOGIES

Life Technologies, Inc. (LTI) is a global leader in the production of products used in life science research, headquartered in Rockville, Maryland. We are currently seeking a highly motivated scientist to study the mechanism of DNA recombination in the integrase family of recombinases, such as bacteriophage lambda integrase/att or P1 cre/loxP, with a focus on enhancing the efficiency of the recombination reaction in vitro. Experience in studying protein-DNA interaction is necessary. Experience in studying integrase or other site-specific recombination is highly desirable, as is experience in protein biochemistry and purification. Applicants with a Ph.D. degree and postdoctoral experience are encouraged to apply. Job req #98-G184.

LTI offers excellent benefits and a good working environment. Mail or FAX résumés, indicating job req#, to: Life Technologies, Inc., Human Resources, P.O. Box 6482, Rockville, MD 20849-9899. FAX: 301-610-8020; website: www.lifetech.com. Life Technologies is an Equal Opportunity Employer and promotes a drug-free workplace.

PROTEIN BIOCHEMISTS HENRY FORD HEALTH SCIENCES CENTER

Protein Biochemists for structure/function studies of serpins and streptokinase. Zero to five years of experience with a good background in chemistry and biochemistry. The studies involve fluorescent labeling of mutant proteins for probes, polarization, and resonance energy transfer. The labeled proteins will be used for rapid reaction studies to evaluate transient intermediates in the reaction mechanisms. Send curriculum vitae and three reference names to: Joseph Shore, Ph.D., Division of Biochemical Research, Henry Ford Health Sciences Center, One Ford Place—5D, Detroit, MI 48202. E-mail: jshorel@hfhs.org.

POSITIONS OPEN

SENIOR RESEARCH SCIENTIST

Upstate BioTechnology, Inc., a rapidly growing dynamic company and the established leader in biomedical reagents for cell signaling research located in the heart of the Adirondack mountains and the site of the 1980 winter Olympics (website: www.Upstatebiotech.com), is seeking a Senior Research Scientist. Candidates should possess expertise in baculovirus protein expression, protein purification, and kinase assay development. The successful applicant will assume primary responsibilities for the process of engineering associated with the development and scale-up of new bioprocesses leading to the on-time delivery of recombinant proteins. Responsibilities include, but are not limited to, optimizing protein purification; building and maintaining relationships with industrial customers; maintaining state-of-the-art knowledge of applied biotechnology and signal transduction through professional meetings, review of scientific literature, and personal contacts.

An advanced degree in a biotechnology-related field is required. A Ph.D. is strongly preferred. Candidates must have a professional record demonstrating a high degree of personal motivation and the ability to simultaneously conduct multiple programs. Excellent oral and written communication skills are also required.

Applicants should contact: Arthur LaMarche, Ph.D., Upstate Biotechnology, 199 Saranac Avenue, Lake Placid, NY 12946. Telephone: 518-523-1518; FAX: 518-523-1336; e-mail: alamarch@upstatebiotech.com.

POSTDOCTORAL POSITIONS SIGNAL TRANSDUCTION University of Rochester Medical Center

The university has a large, highly interactive group of Investigators, shared facilities, formal courses, and excellent seminar programs in the area of cell signaling. Postdoctoral positions in signal transduction are available immediately with Jean M. Bidlack: opioid receptor signaling pathways; Mark Dumont: receptors and signaling in yeast; Patricia M. Hinkle: signaling in endocrine cells; Robert Mooney; tyrosine phosphatases and kinases; Alice Pentland: eicosanoid signaling in cancer; Ingrid H. Sarelius; endothelial cell signaling; **Shey-Shing Sheu**; mito-chondrial Ca²⁺ signaling; **Trevor Shuttleworth**: Ca²⁺ signaling mechanisms; **Alan Smrcka**: G proteins and phospholipases. More information is available at website: http://www.urmc.rochester.edu/gebs/crmp/FACULTY.HTM. Send curriculum vitae, names of three references, and list of laboratories of interest to: Patricia M. Hinkle, University of Rochester Medical Center, Box 711, Rochester, NY 14642. E-mail: postdoc@pharmacol.rochester.edu.

POSTDOCTORAL POSITION NEUROPHARMACOLOGY

Available immediately to study behavioral and neurochemical adaptations following opiate dependence and withdrawal. Experience in behavioral studies, stereotactic surgery, microdialysis, and neuroanatomy techiques preferred. Send research interests, curriculum vitae, and three references to: Kenneth Grasing, M.D., Associate Chief of Staff for Research, Department of Veterans Affairs Medical Center, Research (151), 4801 East Linwood Boulevard, Kansas City, MO 64128. E-mail: kenneth. grasing@med.va.gov.

Equal Employment Opportunity Employer.

POSTDOCTORAL POSITIONS

Biochemical and molecular and cell biological research on (a) chemokines; (b) lipids biosynthesis in mycobacteria and plants; (c) plant-fungus interactions. Send curriculum vitae, and e-mail and telephone number of three references to: P. E. Kolattukudy, Ohio State University, 1060 Carmack Road, Columbus, OH 43210. FAX: 614-292-5379; Telephone: 614-292-5670; e-mail: 292-5379; Telephone: 614-292-5670; e-mail: kolattukudy.2@osu.edu. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP in cell and molecular biology available now for work on signal transduction mechanisms in response to mechanical forces. Experience in signal transduction studies and tyrosine phosphorylation essential. Salary and benefits competitive; possible long-term position. Send résumé, cover letter, and names of these references to: Ms. C. Farrell, Loma Linda University, P.O. Box 7210, Loma Linda, CA 92354.



UNITED ARAB EMIRATES UNIVERSITY FACULTY OF MEDICINE AND HEALTH SCIENCES (FMHS)

Assistant/Associate Professor or Professor of **HUMAN ANATOMY**

Applications are invited for posts in FMHS, established in 1986 to become an international centre for excellence. Applicants must possess a Ph.D. or M.D. degree obtained by research, experience of teaching all regions of topographical anatomy to undergraduate medical students in North America, Europe or Australasia and should have additional experience in histology, embryology and or neuroanatomy. Successful candidates will show strong evidence of research productivity with a ing publication record in international journals. Those lacking these

Appointees will receive a tax-free salary, accommodation, annual air tickets, an annual allowance of 8.6% of salary, furniture allowance and contribution towards children's education.

essential requirements and previous applicants need not apply

Further information by fax or e-mail from:

Professor D.J. Pallot, Chairman, Human Anatomy Faculty of Medicine and Health Sciences **UAE** University P O Box 17666, Al Ain, United Arab Emirates Fax No. +971 3 672033 e-mail: pallotd@uaeu.ac.ae

Applications will close six weeks after appearance of this advertisement and late applications will not be considered.

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ANNOUNCEMENTS

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Information & details required for application: www.zef.de

Deadline: April 15, 1999 August 1999 Starting:

ZEF, Doctoral Program, Walter-Flex-Str.3 53113 Bonn, Germany E mail: docp.zef@uni-bonn.de,

FAX (++49/228) 73-1869 or 1889 Tel. (++49/228)73-1861 or 1865

EUROPEAN OPPORTUNITIES

Bio-informatique/Bio-computing

Poste susceptible d'être déclaré vacant à l'Université de la Méditerranée (Aix-Marseille II) (http:// www.mediterranee. univ-mrs.fr/), faculté des Sciences de Luminy, Département de Biologie Moléculaire et Cellulaire.

Poste de maître de conférences

(65 ème section CNU)

Le candidat devra satisfaire aux conditions habituelles de recrutement

(voir http://www.education.gouv.fr/sup/default.htm) Enseignement. Le candidat sera en mesure d'enseigner la bio-informatique dans les différentes filières de biologie, avec des services effectués du DEUG Sciences de la Vie jusqu'en Maîtrise. Après une initiation, en premier cycle, à l'outil informatique, au langage de programmation structuré et aux ressources disponibles sur Internet, l'enseignement pourra couvrir, en deuxième cycle, les grands domaines de la bio-informatique: interprétation/annotations des séquences génomiques brutes, alignement /similarité des séquences, phylogénie moléculaire, applications liées au séquençage à grande échelle et à la génomique, motifs fonctionnels et structuraux, relations structure-fonction.

Recherche. Le candidat serait de préférence un informaticien de formation, fortement impliqué dans des problèmes de biologie. Il devra avoir fait la preuve de la pertinence biologique de son travail par plusieurs publications dans des revues de biologie Il s'intégrera au Centre d'Immunologie de Marseille-Luminy (http://ciml.univ-mrs.fr/), dans l'équipe "Technologies Avancées pour le Génome et la Clinique" (http://tagc.univ-mrs.fr/). Contact : Dr. Daniel Gros, Département de Biologie, Campus de Luminy, case 907, 13288, Marseille cedex 9, France (gros@lgpd.univ-mrs.fr)

SYSTEMS NEUROBIOLOGY CELLULAR NEUROBIOLOGY LICLA

Systems neurobiology. POSTDOCTORAL POSI-TIÓN available immediately to join a productive wellfunded laboratory to study the cellular basis of movement in vitro (Ann. Rev. Physiol. 60:385, 1998). Prior experience in electrophysiology using in vitro preparations is essential. Please post or e-mail curriculum vitae, a brief statement of research interests, and the e-mail addresses of three references to: Jack L. Feldman, Department of Neurobiology, UCLA, Box 951763, Los Angeles, CA 90095-1763. E-mail: feldman@ucla.edu.

Cellular neurobiology. POSTDOCTORAL POSI-TION available immediately to study the roles of protein phosphatases, kinases, and G-proteins in the modulation of synaptic transmission and neuronal excitability in a well-funded laboratory (J. Physiol. 509.1:255, 1998). Prior experience in electrophysiology using in vitro techniques is essential. Please post or e-mail curriculum vitae, a brief statement of research interests, and the e-mail addresses of three references to: Jack L. Feldman, Department of Neurobiology, UCLA, Box 951763, Los Angeles, CA 90095-1763. E-mail: feldman@ucla.edu.

POSTDOCTORAL POSITION PROSTATE CANCER

Postdoctoral/Research Associate position available immediately to study the mechanism of prostate cancer progression. The position offers exciting research opportunity and competitive salary. Applicants should have a Ph.D. in biology. Prior experience in molecular biology and/or cancer biology is preferred. Send curriculum vitae and names of three references to: Zhou Wang, Ph.D., Department of Urology, Northwestern University Medical School, Tarry 11-715, 303 East Chicago Avenue, Chicago, IL 60611. FAX: 312-908-7275; e-mail: wangz@nwu.edu. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS **ANGIOGENESIS** Beth Israel Deaconess Medical Center Harvard Medical School

Postdoctoral positions available to study angiogenesis with particular emphasis on VEGF, integrins, extracellular matrix, and the mechanisms by which these molecules regulate neovascularization. Please send curriculum vitae and names of three references to: Donald Senger, Ph.D., Department of Pathology, Research North, Beth Israel Deaconess Medical Center, 330 Brookline Avenue, Boston, MA 02215. FAX: 617-667-3591. BIDMC is an Equal Opportunity Employer

NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH

POSTDOCTORAL POSITION available to study the Ah receptor and mechanism of action of its ligands, the halogenated aromatic hydrocarbons. Multidisci-plinary approach using molecular biology, cell culture, and in vivo mouse genetics. Projects include agonist efficacy, mechanism of toxicity, tumor promotion, and pharmacokinectics. Interested parties should send curriculum vitae and a list of two or three references to: Dr. Alan Poland, NIOSH, Human Effects Laboratory Division, Mailstop L4020, 1095 Willowdale Road, Morgantown, WV 26505. E-mail: adp4@cdc.gov; FAX: 304-285-6216. NIOSH is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available to study the function and regulation of tumor suppressors $\hat{A}T\hat{M}$ and p53. Projects include genetic and biochemical analysis of the ATM-dependent signaling pathways and regulation of p53 stability and activity following DNA damage. Background in signal transduction desirable. Applicants should send curriculum vitae and contact information for three references to: Dr. Yang Xu, Department of Biology, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0322. E-mail: yangxu@ucsd.edu.

POSITIONS OPEN

DUKE UNIVERSITY MEDICAL CENTER GENOMIC IMPRINTING RESEARCH

Applications are invited for a POSTDOCTORAL RESEARCH position to identify and characterize imprinted genes involved in human behavioral diseases and cancer. Applicants should have, or be near completing, a Ph.D. in molecular biology, genetics, or a related discipline. A competitive salary is available for this NIH-funded position. For further information visit the Genomic Imprinting website: http://www.geneimprint.com.
Please send a cover letter, curriculum vitae, and names

of three reference to:

Randy L. Jirtle, Ph.D. Genomic Imprinting and Carcinogensis Laboratory Department of Radiation Oncology Box 3433 Duke University Medical Center Durham, NC 27710 E-mail: jirtle@radonc.duke.edu

POSTDOCTORAL POSITION available to characterize genes involved in pancreatic islet function and development using targeted oncogenesis and cre/lox P strategies in mice (please see: *JBC* **274**:305, 1999; *JBC* **274**:1000, 1999; and *PNAS* **95**:8654, 1998). Candidates must have experience in molecular biology and be familiar with gene targeting strategies. Experience with immunocytochemistry is also useful. Good communication skills are essential. Send curriculum vitae and names of three references to: Mark A. Magnuson, M.D., Professor of Molecular Physiology and Biophysics, Vanderbilt University, Nashville, TN 37232. E-mail: mark. magnuson@mcmail.vanderbilt.edu; FAX: 615-322-7236. Vanderbilt University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL TRAINING IN CANCER RESEARCH at Case Western Reserve University

The Cancer Center at Case Western Reserve University, a Comprehensive Cancer Center as designated by the National Cancer Institute, seeks applicants for its multidisciplinary Research Oncology Training Program. Eligible candidates may hold the Ph.D., M.D., or M.D.-Ph.D. degree and must be U.S. citizens, nationals, or permanent residents. Research foci include apoptosis, signal transduction, cell adhesion, cancer genetics, gene therapy, and radiation biology. Send curriculum vitae, names of three references, and statement of research interest to: Clark W. Distel-Horst, M.D., Cancer Center, Case Western Reserve University, 10900 Euclid Avenue, Wearn 152, Cleveland, OH 44106-5065. E-mail: cancer@po.cwru.edu. In employment as in education, CWRU is committed to Affirmative Action and Equal Opportunity.

POSTDOCTORAL RESEARCH ASSOCIATE

Two positions are available immediately in the laboratory of **Dr. Larry F. Lemanski** to study cardiomyogenesis and embryonic heart development in the *Axolotl.* Applications are encouraged from individuals with a Ph.D., M.D., or D.V.M. and with significant experience in cell and molecular biology. Competitive salary with excellent benefits package. Refer to Job# 990652 and send résumé

> **Employment Office** Human Resources Department Texas A&M University College Station, TX 77843-1475 Telephone: 409-845-5154

Texas A&M University is an Affirmative Action/Equal Opportunity Employer committed to diversity.

POSTDOCTORAL POSITION in steroid receptors available immediately to study the roles of steroid receptor coactivators and in situ transactivation function of steroid receptors during breast/uterus development and cancer progression (see: PNAS 96:208, 1999; Endocrinology 139:2916; 1998; Endocrinology 139:4164, 1998). Expertise in molecular/cellular biology required and in reproductive endocrinology/developmental biology, adenovirus, or immunochemistry desired. Send curriculum vitae and three references to: Dr. Meei-Huey Jeng, Ph.D., Department of Medicine, Division of Hematology/Oncology, University of Virginia Health Sciences Center, Box 513, Charlottesville, VA 22908. E-mail: mj5x@virginia.edu. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN '

POSTDOCTORAL POSITIONS IN SOMATIC STEM CELL RESEARCH

Positions are available immediately for recent M.D. Ph.D., and M.D.-Ph.D. graduates, trained in biochemistry, cell biology, and molecular biology, who have interest in pursuing research in the area of somatic stem cell bioiogy. Research projects include investigations of the following in the context of asymmetric stem cell kinetics: p53 tumor suppressor protein function; DNA replication control; cyclin kinase regulation; guanine ribonucleotide metabolism; gene expression analyses by cDNA array; isolation of cell kinetics control genes by insertional mutagenesis; and identification and culture of adult liver stem cells. Projects with direct relevance to cancer drug discovery and cancer risk assessment are also available. Interested graduates should forward curriculum vitae and three letters of reference to:

James L. Sherley, M.D., Ph.D. Division of Bioengineering and Environmental Health Center for Environmental Health Sciences Massachusetts Institute of Technology Building 16, Room 755 77 Massachusetts Avenue Cambridge, MA 02139

PREDOCTORAL AND POSTDOCTORAL POSITIONS UNIVERSITY OF MINNESOTA Department of Pharmacology

The Department of Pharmacology, University of Minnesota Medical School has Predoctoral and Postdoctoral openings in several fields. Our faculty members are wellfunded and direct strong interdisciplinary research programs.

Areas of emphasis include molecular biology, biochemistry, immunology, and neurobiology-neurochemistry; molecular cloning of receptors and signal transduction; regulation of gene expression (also use of transgenic and gene targeting technology); intracellular electrophysiology, ion channels; biochemical/molecular pharmacology; cancer chemotherapy, immunopharmacology, drug metabolism, enzymology, and anti-viral drugs.

Interested applicants for Predoctoral positions should write to: The Director of Graduate Studies for more information. Postdoctoral applicants should send a curriculum vitae, statement of research interests, and names of three references to: Dr. Horace H. Loh, Professor and Head. The address for both predoctoral and postdoctoral applicants is: Department of Pharmacology, University of Minnesota, 3-249 Millard Hall, 435 Delaware Street S.E., Minneapolis, MN 55455.

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

POSTDOCTORAL POSITION UNIVERSITY OF MINNESOTA CANCER CENTER

Position immediately available for a Postdoctoral Associate for laboratory studies of the biology of human leukemia. Emphasis is on molecular genetic, breakpoint analysis, and gene expression studies in the normal and leukemia cells. (*Blood* **92**:3841, 1998).

In vitro and murine studies that use knock-in and knockout technology in ES cells are underway. Salary is commensurate with level of education and experience.

Send résumé and curriculum vitae to: John Kersey, M.D., c/o Human Resources, University of Minne sota Cancer Research Center, Box 806 Mayo, 420 Delaware Street S.E., Minneapolis, MN 55455.

The University of Minnesota is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

Two POSTDOCTORAL POSITIONS available immediately to study molecular mechanisms involved in alcohol/aldehyde toxicity. Ongoing studies include gene knockouts in mice. Candidates must have Ph.D. degree and strong background in molecular biology and genetics. Experience with ES cultures and knockout technology is highly desirable. Please send curriculum vitae, brief overview of interests, along with names and telephone numbers of three references to: Dr. Vasilis Vasiliou, University of Colorado Health Sciences Center, School of Pharmacy C-238, 4200 East Ninth Avenue, Denver, CO 80262. E-mail: vasilis.vasiliou@uchsc. edu. The University of Colorado Health Sciences Center is committed to Equal Opportunity and Affirmative Action.



UNIVERSITY OF MANCHESTER SCHOOL OF Lectureship in BIOLOGICAL Biological Sciences

Microbial Ecology

Applications are invited for the above post. The School of Biological Sciences is one of the largest in the UK with over 115 academic staff. Research activities span the entire biological spectrum from molecules to populations. An appointment is sought in the area of microbial ecology. Applications are particularly welcome from those using novel molecular approaches to study the rhizosphere and the dynamics of microbe/plant interactions. However, other areas of microbial ecology will be considered. The individual appointed will be encouraged to develop collaborative links with microbiologists and other scientists within the School as well as colleagues in the Department of Earth Sciences. In addition to a strong research profile, the appointee will be expected to contribute to the MSc programme in Pollution and Environmental Control and undergraduate teaching in our wide range of BSc programmes.

Further details relating to the School can be found on our website: http://www.biomed.man.ac.uk Informal enquiries can be made to Professor I S Roberts; Tel: 0161 275 5601; E-mail: ISRobert@fs1.scg.man.ac.uk

Application forms and further particulars are available from the Office of the Director of Personnel, The University of Manchester, Oxford Road, Manchester M13 9PL. Tel: 0161 275 2028; Fax: 0161 275 2221/2471; Minicom (for the hearing impaired): 0161 275 7889; E-mail: personnel@man.ac.uk; Web Site: http://www.man.ac.uk

Closing date: 12 March 1999. Please quote ref: 097/99

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



Bio-informatique/Bio-computing

Poste susceptible d'être créé à l'Université de la Méditerranée (Aix-Marseille II) (http://www. mediterranee.univ-mrs.fr/), faculté des Sciences de Luminy, Département de Biologie Moléculaire et Cellulaire

> Poste de professeur (65 ème section CNU) Le candidat devra satisfaire aux conditions habituelles de recrutement

(voir http://www.education.gouv.fr/sup/default.htm) Enseignement. Le candidat sera en mesure d'enseigner la bioinformatique dans les différentes filières de biologie, avec des services effectués du DEUG Sciences de la Vie jusqu'en Maîtrise et en DEA. Après une initiation, en premier cycle, à l'outil informatique, au langage de programmation structuré et aux ressources disponibles sur Internet, l'enseignement pourra couvrir, en deuxième cycle, les grands domaines de la bio-informatique: interprétation /annotations des séquences génomiques brutes, alignement/similarité des séquences, phylogénie moléculaire, applications liées au séquençage à grande échelle et à la génomique, motifs fonctionnels et structuraux, relations structure-fonction. Le candidat sélectionné coordonnera l'ensemble des enseignements de bio-informatique du Département. Recherche. Le candidat retenu travaillera dans le laboratoire "Information Génétique et Structurale" (http://igs-server.cnrs-mrs.fr/) de l'Institut de Biologie Structurale et Microbiologie. Ce laboratoire a développé un fort potentiel de recherche dans le domaine théorique (approche bayésienne, chaîne de Markov, méthodes itératives) et les applications bio-informatiques pour l'identification des régions codantes et des promoteurs. Les autres thématiques fortes du laboratoire sont l'étude des profils de transcription, de la structure des ARN, et des régions non-codantes des gènes. Le candidat pourra inscrire ses activités de recherches dans ces thématiques ou prendre la responsabilité d'une orientation post-génomique (prédiction fonctionnelle ou structurale, étude du protéome). Contact : Dr. Daniel Gros, Département de Biologie, Campus de Luminy, case 907, 13288, Marseille cedex 9, France (gros@lgpd.univ-mrs.fr)



Max-Planck-Institut

für Infektionsbiologie

The Max Planck Institute for Infection Biology offers the opportunity to set up two

Independent Junior Research Groups (Selbständige Nachwuchsgruppen).

The institute has placed an emphasis on bacterial and parasitic pathogens. Candidates are ideally younger than 35 years, have a proven research record and will synergize with, and benefit from, at least one of the following research areas:

- Molecular and cellular pathogenesis
- Immuno-biology of infectious disease
- Molecular epidemiology and host susceptibility
- Ecology and evolution of pathogenic microbes

The contract is for a group leader position at the Assistant/ Associate Professor level (German University scale C2/C3) and limited to 5 years, starting between January and July 2000. Appropriate laboratory space, equipment and running cost, as well as the salaries for one additional scientist, one graduate student and one technician will be provided.

Applications, including a tabular curriculum vitae, list of publications, and a short outline of their actual and future research objectives as well as names of three referees should be sent by April 9, 1999 to:

> Personnel Department Max-Planck-Institut für Infektionsbiologie Monbijoustrasse 2, D-10117 Berlin Germany

Bio-informatique/Bio-computing

Poste susceptible d'être déclaré vacant à l'Universite de la Méditerranée (Aix-Marseille II) (http://www.mediterranee.univmrs.fr/), faculté des Sciences de Luminy, Département de Biologie Moléculaire et Cellulaire.

Poste de maître de conférences (65 ème section CNU) Le candidat devra satisfaire aux conditions habituelles de recrutement (voir http://www.education.gouv.fr/sup/default.htm)

Enseignement. Le candidat sera en mesure d'enseigner la bioinformatique dans les différentes filières de biologie, avec des services effectués du DEUG Sciences de la Vie jusqu'en Maîtrise. Après une initiation, en premier cycle, à l'outil informatique, au langage de programmation structuré et aux ressources disponibles sur Internet, l'enseignement pourra couvrir, en deuxième cycle, les grands domaines de la bio-informatique: interprétation/annotations des séquences génomiques brutes, alignement /similarité des séquences, phylogénie moléculaire, applications liées au séquençage à grande échelle et à la génomique, motifs fonctionnels et structuraux, relations structure-fonction.

Recherche. Le candidat retenu travaillera dans le laboratoire "Information Génétique et Structurale" (IGS) (http://igs-server.cnrs-mrs.fr/) de l'Institut de Biologie Structurale et Microbiologie. Il aura une solide formation de base en statistiques et/ou en méthodes mathématiques de la physique, tout en étant bien familiarisé avec la biologie et la génomique. Il devra avoir fait la preuve de la pertinence biologique de son travail par plusieurs publications dans des revues de biologie. Le laboratoire d'accueil a développé un fort potentiel de recherche dans la théorie (approche bayésienne, chaînes de Markov, méthodes itératives) et les applications de la bio-informatique à l'identification des régions codantes et des promoteurs des gènes. Les autres thématiques fortes du laboratoire sont l'étude des profils de transcription, de la structure des ARN et des régions non-codantes. Le candidat devra avoir des affinités fortes avec l'un de ces thèmes. Il pourrait aussi contribuer au renforcement de la collaboration entre l'IGS et le laboratoire Architecture et Fonctions des Macromolécules Biologiques (AFMB) dans le domaine des relations séquences-structurefonction, et celui de la génomique structurale. Contact : Contact : Dr. Daniel Gros, Département de Biologie, Campus de Luminy, case 907, 13288, Marseille cedex 9, France (gros@lgpd.univ-mrs.fr)

POSTDOCTORAL POSITIONS NATIONAL CANCER INSTITUTE NATIONAL INSTITUTES OF HEALTH

Postdoctoral positions are open in each of the following topics:

(a) Angiogenesis: molecular mechanisms, Dr. Elise Kohn, e-mail: eckohn@helix.nih.gov.

(b) Gene expression and proteomic profiles of prostate cancer progression, Dr. Michael Emmert-Buck, e-mail: mbuck@helix.nih.gov.

(c) Cell invasion: tumor progression and angiogenesis, Dr. William Stetler-Stevenson, e-mail: sstevenw@mail.nih.gov.

(d) Signal transduction: biology of activated T cells and T cell lymphomas, **Dr. Kevin Gardner**, e-mail: kevgar@helix.nih.gov.

(e) Tissue proteomics: protein arrays and signal transduction pathways using microdissection technology, **Dr.** E. F. Petricoin, e-mail: petricoin@cber.fda.gov.

(f) Embryogenesis: molecular genetics of gastrulation and limb development, **Dr. Susan Mackem**, e-mail: smack@helix.nih.gov.

(g) Molecular diagnostics: translational research, Dr. Lance Liotta, e-mail: lance@helix.nih.gov.

Candidates must be U.S. citizens or permanent residents. Positions available spring 1999. Applicants must have a Ph.D. and/or M.D. and less than five years of relevant postdoctoral experience. Send curriculum vitae and two letters of reference to: Laboratory of Pathology, NCI, Building 10, Room 2A33, 10 Center Drive, MSC 1500, Bethesda, MD 20892. NIH is an Equal Opportunity Employer.

Two POSTDOCTORAL POSITIONS are available in an interactive laboratory at Baylor College of Medicine, Departments of Huffington Center on Aging and Pathology. Position One: in cell cycle regulation of liver proferation, and Position Two: in molecular mechanisms governing metabolism using transgenic mice. Candidates should have a Ph.D. and a strong background in molecular biology; experience with mice is desirable. Applicants for first position should submit a curriculum vitae and names of three references to: Dr. Nikolai Timchenko and the same information for the second position to: Dr. Gretchen Darlington, Huffington Center on Aging, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. E-mail: nikolait@bcm.tmc.edu. Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.

POSTDOCTORAL POSITION NEUROSCIENCE

Available now to image neuronal populations in zebrafish. Postdoctorate will be trained in confocal calcium imaging, laser ablation, and high-speed behavioral recording. Postdoctorate will study the functional organization of the zebrafish hindbrain. (See: Neuron 17:1145; Curr. Opin. Neurobiol. 7:832) Experience in electrophysiology or neuroanatomy desired but not essential. Send curriculum vitae to: Don O'Malley, Department of Biology, 414 Mugar Hall, Northeastern University, Boston, MA 02115. Inquiries to e-mail: domalle@lynx.neu.edu. Northeastern University is an Equal Opportunity/Affirmative Action/Title IX Employer.

POSTDOCTORAL FELLOW AND/OR ASSOCIATE RESEARCH SCIENTIST

The American Health Foundation has several positions available to individuals with a strong commitment to research on breast cancer etiology and prevention. Experience in biochemistry and molecular biology required. Opportunity may exist to become permanent.

The American Health Foundation is a multidisciplinary cancer research institute. Interested candidates, please send résumé to: Department CEP, American Health Foundation, 1 Dana Road, Valhalla, NY 10595.

Equal Employment Opportunity/Minorities/Females/Disabled/Veterans/ADA.

POSTDOCTORAL POSITION FOR CELL OR MOLECULAR BIOLOGIST

To design novel in vitro approaches to study blood-brain barrier. Candidate must be proficient in sophisticated cell culture and molecular biology techniques. Competitive salary/benefits. Send curriculum vitae, names and telephone numbers of three references to: Luz Claudio, Ph.D., Mount Sinai School of Medicine, Gustave Levy Place, Box 1057, New York, NY 10029. FAX: 212-996-0407; e-mail: luz.claudio@mssm.edu.

POSITIONS OPEN



POSTDOCTORAL POSITIONS IN G-PROTEIN SIGNALING

Two junior positions are available immediately to study G-protein control of differentiation and vertebrate development using microinjection, transgenic mouse, and mutagenesis techniques. View website: www.pharm. sunysb.edu. M.D. or Ph.D. and experience in molecular biology/cell signaling required. Send curriculum vitae and letters of reference via FAX or e-mail to: Dr. Craig Malbon, Molecular Pharmacology, School of Medicine, SUNY/Stony Brook, NY 11794-8651. FAX: 516-444-7696; e-mail: craig@pharm.som.sunysb.edu. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS THEORETICAL BIOLOGY AND MOLECULAR EPIDEMIOLOGY

The Theoretical Biology and Biophysics Group (T-10) (website: http://www.t10/) at Los Alamos National Laboratory (LANL) is seeking postdoctoral candidates for two immediate openings. A number of theoretical studies of influenza virus are in place at LANL, including agent-based modeling of early phases of an outbreak, using supercomputers; design of optimal vaccination schedules by accounting for immune memory; and structural correlates of virulence by homology modeling of hemaglutinin. Collaborations exist with the CDC and health science groups within LANL. Staff member interests include cell surface signaling, HIV dynamics, and protein structure prediction. T-10 also houses several databases, including the HIV Sequence, HIV Immunology, HPV Sequence, and Influenza Sequence Databases.

One position is available for research into the molecular epidemiology of the influenza virus. A second position is available for theoretical studies of the influenza virus. Preference will be given to candidates with training in one or more of the following areas: statistics, molecular genetics, biophysics, medical statistics, and virology (if accompanied by an area of theory). Candidates must demonstrate an interest in, and ability to understand, problems in molecular biology, and must have computer literacy, preferably under a Unix operating system. The successful candidate will be expected to contribute to the development of analytical tools for use at the Influenza Sequence Database website, as well as publish from his/her independent, influenza-related research.

A Ph.D. completed within the last three years or soon to be completed is required. Starting salaries range from \$48,900 to \$52,800. Further details about the Postdoctoral Program may be found at website: http://www.hr.lanl.gov/postdoc. See Postdoc Jobs #994517 and #994519 for submission requirements. Los Alamos National Laboratory is operated by the University of California for the U.S. Department of Energy. Affirmative Acton/Equal Opportunity Employer.

POSTDOCTORAL POSITION COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS AND SURGEONS

A Postdoctoral position is available to study the mechanism of signal transduction by the PhoP/PhoQ two-component system that is required for virulence and/or regulatory stress response in enteric bacteria. Genetic, biochemical, and biophysical approaches will be utilized to ascertain the structural basis for signal detection and regulation of the phosphorylation reactions that mediate signal transduction. Interested individuals should send a curriculum vitae and the names of three references to: Carey Waldburger, Ph.D., Department of Microbiology, Columbia University, College of Physicians and Surgeons, 701 West 168th Street, HHSC 1218, New York, NY 10032. Columbia University takes Affirmative Action toward Equal Employment Opportunity.

POSITIONS OPEN

POSTDOCTORAL POSITIONS HARVARD MEDICAL SCHOOL

Positions immediately available in epithelial/endothelial cell biology within the Center for Experimental Therapeutics and Reperfusion Injury at Brigham and Women's Hospital and Harvard Medical School. Orientation of research project centered on understanding the role of epithelial/endothelial cells and neutrophils in the pathogenesis of ischemic disease. Candidate should and Ph.D., M.D., D.V.M., or equivalent with research experience in cell biology, biochemistry, and/or physiology desirable.

Send, FAX, or e-mail curriculum vitae and names of three references to:

Sean P. Colgan, Ph.D.
Brigham and Women's Hospital
Thorn 704
75 Francis Street
Boston, MA 02115
Telephone: 617-278-0690
FAX: 617-278-0599
E-mail: colgan@zeus.bwh.harvard.edu

POSTDOCTORAL POSITIONS. One or two Postdoctoral Research Associates in plant biology, microbiology, or environmental sciences/engineering are sought to conduct a three-year, multidisciplinary research project to improve the quality of "source" water for municipal water supplies in the Phoenix area. The project will focus on taste-and-odor-causing algae/fungi and the formation of disinfection by-product precursors. Expertise in one or more of the following areas is desirable: algal and/or fungal systematics, bioculture techniques, mass spectroscopy, water quality modeling. Faculty team includes M. Sommerfeld (phycology), P. Westerhoff (drinking water treatment), and L. Baker (environmental chemistry). Hiring is subject to project approval. Submit résumé, transcripts, and three letters of recommendation to: Dr. Milton Sommerfeld, Department of Plant Biology, Arizona State University, Tempe, AZ 85287-1601 USA. E-mail: milton.sommerfeld@asu.edu; Telephone: 602-965-3391. Review of applications will begin March 15, 1999, and continue until appointments are made. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION GATA-5/6 GENE REGULATION AND HEART DEVELOPMENT

A Postdoctoral position is available to analyze at the molecular level how several distinct enhancers from the GATA-5/6 gene regions are activated in different region of the development heart in transgenic mouse lines. These enhancers highlight several interesting facets of heart morphogenesis, including early patterning of the heart field as well as formation of the valves and components of the conduction system. Applicant must have a strong background in molecular and developmental biology; transcriptional research experience is also desirable. Please send a curriculum vitae and three letters of recommendation to: John B. E. Burch, Ph.D., c/o Human Resources Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Telephone: 215-728-3696; e-mail: jb_burch@fccc.edu.

POSTDOCTORAL FELLOW HARVARD MEDICAL SCHOOL THE CENTER FOR BLOOD RESEARCH

We are seeking an individual interested in leading a new and challenging project aimed toward the development and use of a novel functional cloning method. The method will be used to search for partners of proteins including Nef and WASP that are involved in the regulation of membrane traffic, signal transduction, and cytoskeleton organization. This position requires an extensive working knowledge of current molecular biological techniques and a person who enjoys problem-solving. Please send a summary of research experience, curriculum vitae, and three letters of recommendation to: Dr. T. Kirchhausen, Harvard Medical School/CBR, 200 Longwood Avenue, Boston, MA 02115. E-mail: kirchhausen@cbr. med.harvard.edu.

POSTDOCTORAL POSITION. A Postdoctoral position is available to carry out protein expression and enzymatic analysis of novel proteins involved in polyketide biosynthesis (see: PNAS 95:15469). Previous experience with protein expression and enzymology is required. Send curriculum vitae and names of three references to: Dr. R. J. Parry, Department of Chemistry MS-60, Rice University, 6100 Main Street, Houston, TX 77005-1892. E-mail: parry@rice.edu.



in association with Linacre College

Oxford Centre for Molecular Sciences in association with the Departments of Biochemistry and Chemistry

University Lecturership in Biomolecular NMR Spectroscopy

The University of Oxford is seeking an exceptional scientist who will develop a vigorous and innovative research programme in the general area of Nuclear Magnetic Resonance spectroscopy as applied to biological systems, and who will lead the existing outstanding NMR facility into the next millennium. Candidates must describe a strong vision of the future of biological NMR and of their own current and future contribution to the field. We are looking for scientific creativity and ambition. OCMS provides a strongly collaborative and interdisciplinary environment with excellent equipment facilities. The emphasis during the first five years of the appointment will be strongly on research.

The post is tenable from 1st October 1999 or as soon as possible thereafter. The stipend will be according to age on the scale £16,655 to £34,464 per annum. The successful applicant may be offered a fellowship at Linacre College. Further particulars and selection criteria may be found at http://www.ocms.ox.ac.uk or be obtained from The OCMS Administrator, OCMS, New Chemistry Laboratory, South Parks Road, Oxford OX1 3QT (email: ann.aspey@ocms.ox.ac.uk), to whom applications should be sent. Ten copies of the application (one only for overseas candidates), which should include a curriculum vitae, a statement of how skills and experience match the selection criteria, a list of publications, and quoting reference NMR/LIN, should arrive by 15th March 1999. Applicants should also give the names of three referees (normally not more than two from the same institution) and ask them to write to Professor C M Dobson FRS, c/o The OCMS Administrator, by the same date.

The University is an Equal Opportunities Employer.

Correction

The Wellcome Trust Overseas Senior Research Fellowships in Biomedical Science

The original advertisement for the above scheme was published in Nature, 28th January 1999, The Lancet, 30th January 1999 and Science, 5th February 1999. Regrettably, that advertisement contained an error, which has particular bearing on Australia and New Zealand. In the original advertisement, it was implied that Australian and New Zealand nationals could not apply for these fellowships. The Wellcome Trust wishes it to be known that that is not the case and applications will be accepted from Australian and New Zealand nationals. The correct sentence is given below:

Applications will be accepted from those who are currently overseas or who have returned to their home country. However, those who wish to work in Australia or New Zealand should not have been back for more than two years (at the closing date for applications).

The Wellcome Trust apologises for any confusion or inconvenience caused.



The Wellcome Trust is a Registered Charity, No. 210183, and seeks to support research in biomedical sciences and the history of medicine by means of grants and other activities



THE UNIVERSITY OF GRONINGEN THE NETHERLANDS

The Materials Science Centre of the Faculty of Mathematics and Natural Sciences has two openings for the position of

Full Professor of Chemistry and/or Physics

(vacancy number 990032)

Since 1970 the Materials Science Centre (MSC) of the University of Groningen makes a realistic effort to forge interdisciplinary grouping and bringing together materials research from different directions within the condensed matter community spread over the departments of physics and chemistry. Recently the MSC took a major step, namely to link the materials efforts in condensed matter sciences with research groups in the areas of biochemistry and organic chemistry. The program was selected in 1998 by the national science foundation (Netherlands Organization for Research – The Hague) as one of the six granted proposals to become a leading National Research Centre on Materials Science in the Netherlands.

The National Research Centre MSC invites applications for two full professorships to establish two new research groups. One of the successful candidates should be able to play a leading role in the field of organic-molecular thin films and multi layers, of metal and semiconductor interfaces. He/she is expected to take initiatives and to carry out original research in the field of basic research on charge and energy transport. The second group will focus on areas of (bio-) molecular devices and the functionalization of (bio-) molecular systems. The research program of the group is broadly defined, but not limited to: the development of methods to arrange molecular units into functional structures and the study of the physical properties such as the (opto-) electronic properties of such structures. The National Research Centre MSC provides excellent opportunities for candidates interested in novel materials approach and collaborations with an active ongoing program.

The candidate should be either an experimental chemist or physicist with experience and interest in setting up a new research group at the interface between (bio-)molecular sciences and interface and/or device physics. A commitment to excellence in teaching at both the undergraduate and graduate level is essential.

The salary will be between Dfl 8.310,- and Dfl 12.182,- gross per month.

Further information concerning the position can be obtained from the scientific director and chairman of the search committee Prof. Dr. G. Hadziioannou at the Materials Science Centre, phone +31 50 3634300 or +31 50 3634508, fax +31-50 3634400, e-mail < g.hadziioannou@chem.rug.nl > Institute's homepage: http://msc.phys.rug.nl.

Applications, including a curriculum vitae, a list of publications and names and addresses of three referees, willing to provide information concerning personal and scientific qualifications, should be addressed to the director of Personnel, University of Groningen, P.O. Box 72, 9700 AB Groningen, The Netherlands. The closing date for applications is April 2, 1999.

Groningen University is an equal opportunity employer and actively encourages female applicants. Those wishing to draw attention to potential candidates are welcome to contact the chairman of the search committee.

POSTDOCTORAL POSITION TO INVESTIGATE FUNCTION AND DYSFUNCTION OF THE HUMAN ONCOPROTEIN MDM2

Applications are invited from recent graduates for a Postdoctoral position in a laboratory involved in understanding molecular biology of tumorigenesis and role of the human oncoprotein MDM2 in the etiology of cancer (see: EMBO J. 17:2513, 1998). This position is to investigate the biochemical mechanism of human MDM2-mediated growth regulation in normal cells. Individuals with expertise in cDNA technology, DNA sequencing, mammalian cell culture systems, or expression analysis in transgenic mice are especially encouraged to apply. Salary is negotiable. Send complete curriculum vitae and arrange for three letters of reference to be sent directly to: Swati Palit Deb, Ph.D., Associate Professor, Department of Cancer Biology, Comprehensive Cancer Center of Wake Forest University, Medical Center Boulevard, Winston-Salem, NC 27157-1082. FAX: 336-716-0255; e-mail: swdeb@wfubmc.edu. Affinnative Action/ Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS

To work on (1) processes that transport chemicals into or out of the liver, (2) mechanisms of tolerance to metal toxicity, (3) sulfotransferase-isoform activation of chemicals, or (4) mechanisms of thyroid carcinogenicity.

Techniques employed in these studies vary from gene cloning, heterologous gene expression, Northern blotting, branched-DNA assays, *in situ* hybridization, antibody production, Western blotting, knockout animal and transgenic-animal engineering, and whole-animal evaluation (pharmacokinetics, toxicology, histopathology, enzyme assays, etc.).

Applicants must be U.S. citizens or permanent residents. Send curriculum vitae to: Dr. Curtis D. Klaassen, Department of Pharmacology and Toxicology, University of Kansas Medical Center, Kansas City, KS 66160-7417. FAX: 913-588-7501; e-mail: cklaasse@kumc.edu.

POSTDOCTORAL POSITIONS are available immediately for NIH-funded projects to study molecular mechanisms of regulation of cytochrome P450 genes in bile acid and cholesterol metabolisms. Ph.D. in biochemistry or molecular biology with experiences in gene cloning, sequencing, and expression, tissue culture, yeast two-hybrid system, and transfection, gel shift, and footprinting assays. Please submit curriculum vitae and names of three references to: Office of Human Resources, c/o Dr. John Y. L. Chiang, Biochemistry and Molecular Pathology, Northeastern Ohio Universities College of Medicine, 4209 State Route 44, P.O. Box 95, Rootstown, OH 44272-0095. E-mail: jchiang@neoucom.edu; FAX: 330-325-5911. NEOUCOM is an Equal Employment Opportunity/Affinative Action Educator and Employer.

POSTDOCTORAL POSITIONS at the NIH and FDA in chemokine receptor and HIV coreceptor research. Postdoctoral positions available to study new chemokine receptors and HIV coreceptors. One position will focus on molecular studies of new chemokine receptors and at least one position will focus on interactions between HIV/SIV and new coreceptors. Applicants with a primary interest in the receptors should contact: Joshua Farber, M.D., NIAID, NIH, FAX: 301-402-0627; e-mail: joshua_farber@nih.gov and those with a primary interest in the viruses should contact: Keith Peden, Ph.D., CBER, FDA, FAX: 301-496-1810; e-mail: peden@cber.cber.fda.gov. Interviews are required. Applications will be accepted through March 31, 1999. NIH is an Equal Opportunity Employer.

UNIVERSITY OF CALIFORNIA, IRVINE

A POSTDOCTORAL POSITION is available beginning sometime between April 1 and September 1, 1999, at the University of California, Irvine. We seek a recent Ph.D. graduate with experience in either molecular biology or biochemistry and who is interested in studies on regulation of RNA polymerase I, rDNA chromatin structures and nucleolar structures in the yeast S. cerevisiae. Send a curriculum vitae and the names of three references by March 15, 1999, to: Dr. Masayasu Nomura, University of California, Irvine, Department of Biological Chemistry, Irvine, CA 92697-1700. UCI is an Equal Opportunity Employer committed to excellence through diversity.

POSITIONS OPEN

POSTDOCTORAL POSITION MOUNT SINAI SCHOOL OF MEDICINE

Mount Sinai School of Medicine is a leader in medical research and education. We currently have a position available to study toxicity and gene expression in HepG2 liver-derived cell lines expressing human cytochrome P450 3A4 and/or 2E1. The role of oxidative stress in the toxicity of anesthetics is a major focus of the overall research project. Additionally, the role of substrate stabilization of cytochrome P450 against proteasome complex degradation is another major focus of the research project. Experience in molecular and cell biological techniques is required. Position is available immediately.

Interested candidates should send curriculum vitae, summary of research interests/accomplishments, and names of three references to: Dr. Dennis E. Feierman, Department of Anesthesiology, Box 1010, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. FAX: 212-876-3906. For more information, visit our website: www.careermosaic.com/mountsinai.

We are an Equal Opportunity Employer fostering diversity in the workplace.

POSTDOCTORAL POSITION IN COMPARATIVE NEUROBIOLOGY

Available immediately to study comparative and evolutionary aspects of the neural circularity underlying feeding behaviors in molluses, in the laboratory of Dr. Don Murphy. Foci are on electrophysiological, immunocytochemical, morphological, and videomicroscopial studies in a behavioral context. Skills in patch clamp techniques and computer analyses of electrophysiological records would be welcomed. Applications will be accepted until position is filled. Send letter of interest, curriculum vitae, and three letters of reference to: Crystal McGee, Department of Biological Sciences, M/C 066, 845 West Taylor, Chicago, IL 60607. FAX: 312-413-2435; email: crystal@uic.edu. The University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.

Mayo Clinic POSTDOCTORAL FELLOWSHIPS in gastrointestinal research are available for two or more years beginning in 1999. Faculty employs multidisciplinary approach using biochemical, cell/molecular biological, immunological, physiological, and electrophysiological techniques. Applicants may focus on clinical and/or basic studies. Applicants should have M.D. and/or Ph.D. degree and must be a U.S. citizen or have pennanent visa status. Please submit curriculum vitae and three letters of reference to: Nicholas F. LaRusso, M.D., Program Director, NIH Training Grant, Mayo Clinic, 200 First Street S.W., Rochester, MN 55905. Mayo Foundation is an Affirmative Action/Equal Opportunity Educator and Employer.

A POSTDOCTORAL POSITION is immediately available to study the molecular mechanisms of glutamine repeat neurodegenerative diseases (Nature 378:398; PNAS 93:4839; J. Neurosci. 18:1674; JBC 273:19220; Hum. Mol. Genet. 7:777). Motivated individuals who have Ph.D. degree and experience in neurobiology, cell biology, or biochemistry are encouraged to apply. Send curriculum vitae and the names of three references to: Xiao-Jiang Li, Department of Genetics, Emory University, 1462 Clifton Road, Atlanta, GA 30322. E-mail: xiaoli@genetics.emory.edu; FAX: 404-727-3949. Emory University is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE position available to study methods to improve gene therapy for muscle disorders. Ph.D. with experience in morphological techniques including immunohistochemistry and myoblast culture desirable. Send curriculum vitae and names of three references to: Dr. Marcia Ontell, Department of Cell Biology and Physiology, University of Pittsburgh School of Medicine, South BST, 3rd Floor, Pittsburgh, PA 15261. FAX: 412-648-8330. University of Pittsburgh is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

Postdoctoral positions are available to conduct research in the areas of signal transduction, angiogenesis, and cell biology of adhesion and mobility in breast and ovary cancer.

FAX or mail curriculum vitae and three letters of reference to: Dr. Hava Avraham, Beth Israel Deaconess Medical Center, Harvard Institutes of Medicine, 4 Blackfan Circle, Boston, MA 02115. FAX: 617-975-5240; e-mail: havraham@caregroup.harvard.edu.

POSITIONS OPEN

POSTDOCTORAL POSITION UCLA/DEPARTMENT OF PHYSIOLOGY

Available immediately to study cell signaling, hormonal regulation, gene expression, and differentiation in a previously uncharacterized mouse epithelial cell type. Current laboratory interests include cell isolation, mechanisms of cell-cell interactions, calcium signaling, membrane transport, and protein structure-function studies. Individuals with a strong background in cell biology and biochemistry are preferred. Our laboratory provides a strong interdisciplinary environment for it in wative research. Send curriculum vitae and names of three references to:

Dr. George Sachs, Director Membrane Biology Laboratory West Los Angeles VA Medical Center 11301 Wilshire Boulevard Building 113, Room 324 Los Angeles, CA 90073

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POSTDOCTORAL POSITIONS STANFORD UNIVERSTY

Two Postdoctoral positions are available for studies in the areas of (i) host-pathogen interactions in bacterial infection models, and (ii) developmental regulation of mammalian genes. The research involves using noninvasive imaging of optical reporters in living animal models of human biology and disease to reveal the spatiotemporal distribution of labeled molecules. The positions require a Ph.D. in biochemistry, cell biology, microbiology, genetics, or related field with training in molecular biology. Experience with animal models is preferred. Send curriculum vitae (including recent reprint if available) and list of references to: Dr. Christopher H. Contag, Ph.D., Department of Pediatrics/\$230 Grant Building, Stanford University School of Medicine, 300 Pasteur Drive, Stanford, CA 94305-5208. E-mail: ccontag@cmgm.stanford.edu; e-mail: www.stanford.edu/group/Contag/.

POSTDOCTORAL RESEARCH ASSOCIATE. Experimental hematology and vascular biology. Applicants are required to have a Ph.D. in biochemistry, biol-

cants are required to have a Ph.D. in biochemistry, biology, or a closely related discipline, plus current laboratory experience in isolation, purification, and characterization of heparin-binding proteins. Preference given for experience in protein-ligand binding techniques, especially CD and ITC, and tissue culture. Experience in molecular biology techniques and carbohydrate chemistry desirable. Full-time, fixed-term appointment. Submit letter of application, curriculum vitae, and names, addresses, telephone numbers, and e-mail addresses of three references to: Dr. Karyn Bird, College of Veterinary Medicine, Oregon State University, 105 Magruder Hall, Corvallis, OR 97331-4801. E-mail: birdk@ccmail.orst.edu. Closes March 19, 1999. OSU is an Affinnative Action/Equal Employment Opportunity Employer and has a policy of being responsive to the needs of dual-career couples.

POSTDOCTORAL POSITIONS. Experience in cellular/molecular immunology or molecular biology required to study NIH-funded cancer immunology/immunotoxicology projects. Send résumé and names of three references to: Dr. Mitzi Nagarkatti, Department of Biomedical Sciences and Pathobiology, Virginia-Maryland Regional College of Veterinary Medicine or Dr. Prakash Nagarkatti, Department of Biology, Virginia Tech, Blacksburg, VA 24061. FAX: 540-231-7367; e-mail: mnagarka@vt.edu; websites: www.vetmed.vt.edu/College/Faculty/Nagarkatti/Nagarkatti.html and www.biol.vt.edu/Pacultypages/Nagarkatti/index.html. Review begins March 1, 1999, or until filled. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available to study NF-xB proteins and immune regulation, and mechanisms of immunosuppression by ethanol. Applicants should have a recent Ph.D., experience in molecular biology, signal transduction, and immunology. Send letter of interest, curriculum vitae including names of references, and a description of research accomplishments to: Gregory Wulczyn, Ph.D., Thomas Jefferson University, JAH233, Department of Pathology, Anatomy, and Cell Biology, 1020 Locust Street, Philadelphia, PA 19107-6731. E-mail: gregory_wulczyn@mailtju.edu. Equal Opportunity Employer.

POSTDOCTORAL POSITION AT ALBERT EINSTEIN IN NEW YORK

We are studying the role of transcription factors in the decision making of hematopoietic stem cells. We also do lineage analyses of mouse blood cells by time-lapse microscopy of cultured stem cells from mice in which GFP is inserted into lineage-specific loci. To search for changes in gene expression during differentiation and leukemia we plan to take advantage of the cDNA array and zebrafish facilities at Einstein. The School features a friendly and supportive environment where postdoctorates are organized to foster career development.

A salary for two to three years can be offered although it is expected that candidates apply for their own Fellow ship. Please send applications to: Thomas Graf, e-mail: graf@aecom.yu.edu including names and addresses of three reference. Website: http://www.ca.aecom.yu. edu/dmb.

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POSTDOCTORAL FELLOW

The Department of Medicine, Section of Nephrology, Tulane University School of Medicine is searching for a postdoctoral-level Biochemist with background in molecular and cellular biology. Previous experimental experience in the areas of protein isolation and identification, sequencing, and cloning is preferred. Collaborate with other Investigators in a modern, well-equipped laboratory, joining a research team involved in basic studies in hypertension etiology. Excellent salary and benefits. Interested applicants should send an updated curriculum vitae and the names, addresses, and telephone numbers of three references to: Jules B. Puschett, M.D., Department of Medicine SL12, 1430 Tulane Avenue, New Orleans, LA 70112-2699.

POSTDOCTORAL POSITION

A two-year Postdoctoral position is available immediately to work on the molecular cloning and characterization of ligand-gated ion channels. Experience in molecular biology is required. The applicant should have a good publication record, the ability to work independently, and experience with yeast two-hybrid systems or the charac-

terization of receptors.

Applicants should send a curriculum vitae, publication list, and the names, addresses, and telephone numbers of two references to: Frank J. Turano, USDA/ARS, Climate Stress Laboratory, BARC-West, Building 046A, Beltsville, MD 20705. FAX: 301-504-7521; e-mail: fturano@asrr.arsusda.gov.

A POSTDOCTORAL POSITION is available immediately at the Indiana University School of Medicine to investigate the mechanisms of trafficking, homing, and engraftment of hematopoietic stem cells throughout ontogeny. Studies will focus on the relationship between cell cycle progression, modulation of adhesion molecule function, and engraftment of stem cells. Applicants must have a Ph.D. and/or M.D. Please send résumé and names of three references to: Edward F. Srour, Ph.D., Indiana Cancer Research Institute, 1044 West Walnut Street, R4-202, Indianapolis, IN 46202-5121. Telephone: 317-274-0343; FAX: 317-274-0396; esrour@iupui.edu. Indiana University is an Equal Employment Opportunity/Affirmative Action Employer.

Applications are invited for a POSTDOCTORAL POSITION available for a Ph.D. to develop vaccines for Chlamydia trachomatis. Background in molecular techniques, animal models, protein analysis, and tissue culture is preferred. Salary range: \$29,112 to 43,620. Candidates should send a curriculum vitae and the names, addresses and telephone numbers of three references by March 31, 1999, to: Luis M. de la Maza, M.D., Ph.D., Department of Pathology, Medical Sciences, Room D440, University of California, Irvine, CA 92697-4800. Email: lmdelama@uci.edu. UCI is an Equal Opportunity Employer committed to excellence through diversity.

POSTDOCTORAL TRAINING in brain tumor immunobiology. Projects involve T cell delivery of therapy to brain micro-tumor including brain stem glioma and micrometastases. See: *Immunol. Today* 19:17–22, 1998. Experience in cellular immunology preferred. To apply, briefly describe the reason for your interest and your relevant experience. Start date flexible. Reply to: Dr. L. Lampson, Harvard Institutes of Medicine, 77 Avenue Louis Pasteur, Boston, MA 02115. E-mail: lampson@cnd.bwh.harvard.edu.

ANNOUNCEMENT

COURSE ANNOUNCEMENT BIOMECHANICS AND PHYSIOLOGY OF INTERTIDAL COMMUNITIES

Intertidal communities have been used as a model sys tem in community ecology for several decades. Many of the factors responsible for structuring these communities are abiotic variables such as wave exposure, temperature, wind speed, and light. Therefore, a full understanding of community ecology demands an interdisciplinary approach that includes biomechanics and physiology. This new four-week summer course is designed to offer experimental Ecologists theoretical and hands-on instruction in cutting-edge methods in biomechanics and physiology/biochemistry/molecular biology, as applied to questions in community ecology.

Instructors: Dr. Mark Denny and Dr. George Som-

ero. Dates: June 14 through July 9, 1999. Location: Hopkins Marine Station, Stanford University, Pacific Grove, CA 93950-3094. For additional information, please request a course prospectus from the Instructors, at the above address. Deadline for receipt of all application materials is April 1, 1999.

COURSES & TRAINING

MEDICAL UNIVERSITY OF SOUTH CAROLI-NA offers programs leading to Ph.D. and M.D.-Ph.D. degrees in each of the basic biomedical sciences (biochemistry, microbiology/immunology, pathology, pharmacology, physiology), biometry/epidemiology, phar-maceutical sciences, and molecular and cellular biology and pathobiology. Competitive stipends of \$16,000 avail able. Contact: College of Graduate Studies, Medical University of South Carolina, P.O. Box 250617, Charleston, SC 29425. Or call toll-free, Telephone: 1-800-589-2003.

SUMMER SCHOOL IN INTEGRATIVE-HUMAN PHYSIOLOGY SENSORY-MOTOR CONTROL

In the period 6 July to 6 August 1999 the University of Copenhagen will be hosting a summer school in integrative human physiology with focus on sensory-motor control. The summer school will consist of a two-week theoretical course followed by a three-week practical hands-on course, in which the participants will have the opportunity to work on specific projects within the field of sensory motor-control. The theoretical course will be open for up to 50 European Ph.D. students and Postdoctorates. The number of participants in the practical course will be limited to 15 to 20 (mainly postdoctorates). Some limited funding will be available for the participants in the theoretical course, whereas travel and accommodation for the participants in the practical course will be fully covered by the summer school

Responsible for the course: Hans Hultborn, Jens Bo Nielsen, and Bengt Saltin.

Information and application/registration: Henrik Sander Jensen, Medicinsk-Fysiologisk Institut, 16-5-25, Panum, Københavns Universitet, Blegdamsvej 3, 2200 København N., Denmark. Telephone: +45-3532-7451; e-mail: summerschool@mfi.ku.dk; website: http://www.summerschool.mfi.ku.dk.

EUROPEAN OPPORTUNITIES

GROUP LEADERS POSTDOCTORAL SCIENTISTS **GRADUATE STUDENTS** University of Frankfurt Medical School Laboratory for Molecular Hematology in collaboration with the Pharmaceutical Industry

Applications are invited from individuals with a strong background in cell and molecular biology to work on the recovery and functional analysis of apoptosis-inducible genes. Successful candidates will be part of a comprehensive program that seeks to develop and validate molecular targets for drug screening. Individuals familiar with cellular models of apoptosis are encouraged to apply

Salary dependent on experience and qualifications; will generally follow BAT guidelines. Please send complete applications including names, addresses, and telephone numbers of three references to: Professor Dr. Harald von Melchner, Department of Hematology, University of Frankfurt Medical School, Theodor-Stern-Kai 7, Frankfurt am Main 60590 Germany. Telephone: ++49-69-6301-669; FAX: ++49-69-6301-6390; email: melchner@em.uni-frankfurt.de.

POSITIONS OPEN

POSTDOCTORAL POSITION MOUNT SINAI SCHOOL OF MEDICINE

Mount Sinai School of Medicine is a leader in medical education and research. We currently have positions available to study the molecular mechanisms of caspase activation in mechanisms of apoptotic neuron death in Alzheimer's disease using mouse models, cell cultures, and biochemical assays. The successful candidate must have a demonstrated knowledge of protein chemistry and molecular biology. Position requires two-plus years of commitment and exceptional motivation.

Interested candidates should send curriculum vitae, research interests, and names of three references to: Giulio Maria Pasinetti, M.D., Ph.D., Director, Nueroinflammation Research Center, Department of Psychiatry, Box 1229, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. E-mail: gp2@doc.mssm.edu. For more information, visit our website: www.careermosaic. com/mountsinai. We are an Equal Opportunity Employer fostering diversity in the workplace.

MARKETPLACE

Fifth International Meeting on Ribonucleases May 12-16, 1999 Airlie Conference Center Warrenton, VA, USA

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Margaret L. Fanning fanningm@mail.ncifcrf.gov

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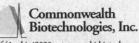
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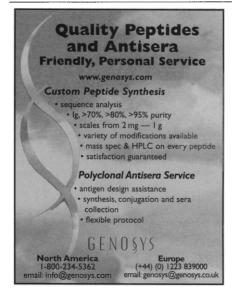
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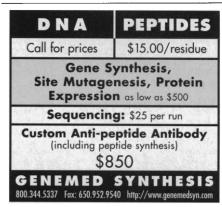
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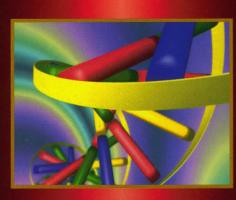
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