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CONTINUED ON PAGE 1757

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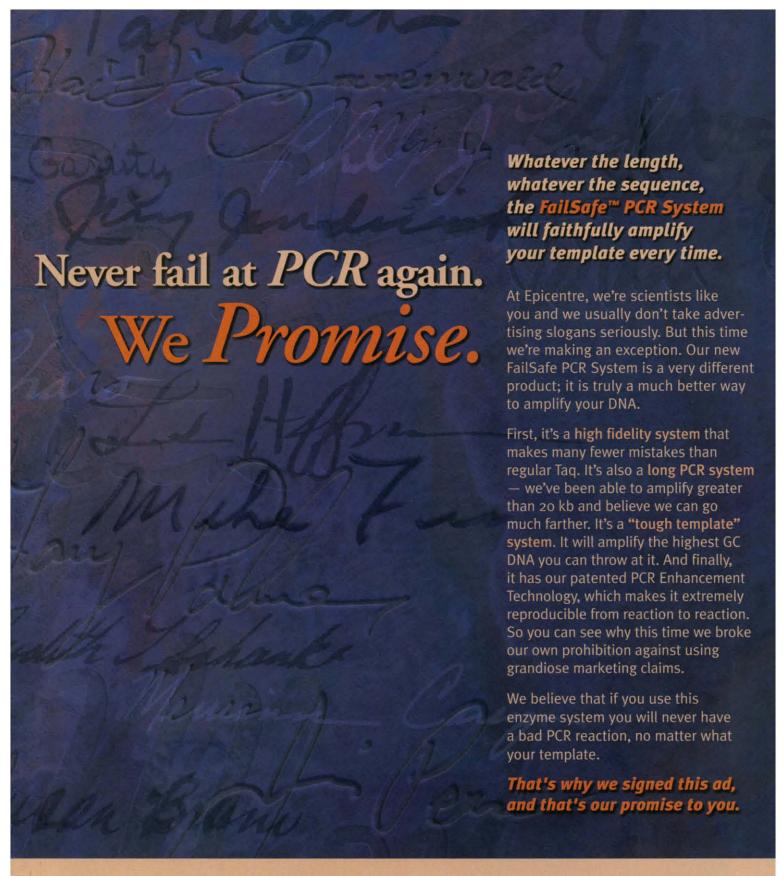
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CONTINUED FROM PAGE 1755 INSTRUMENTATION, APPARATUS, AND LABORATORY MATERIALS

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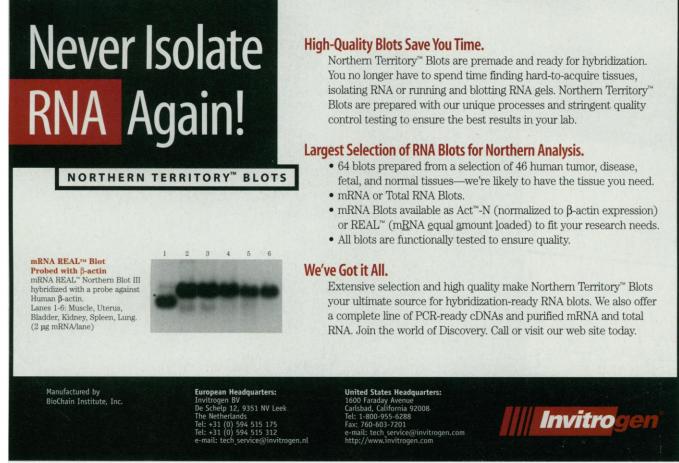
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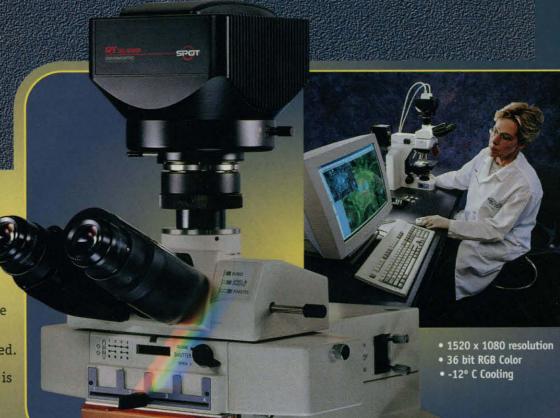
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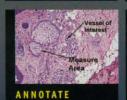








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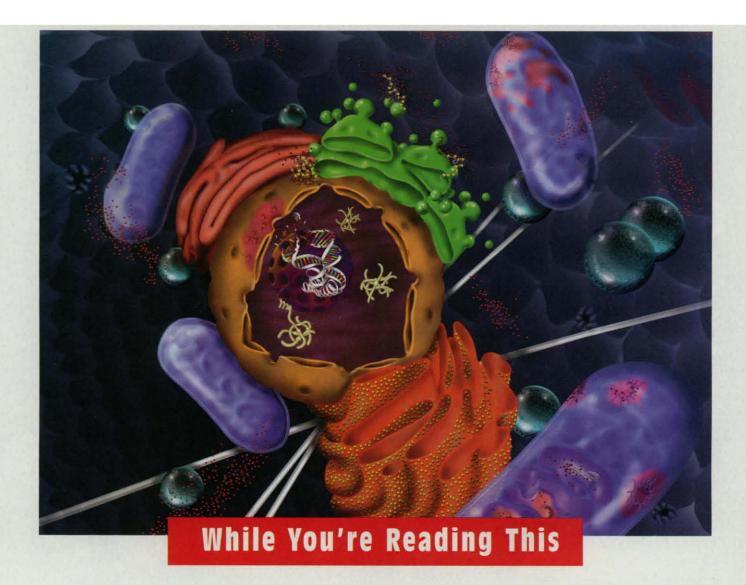
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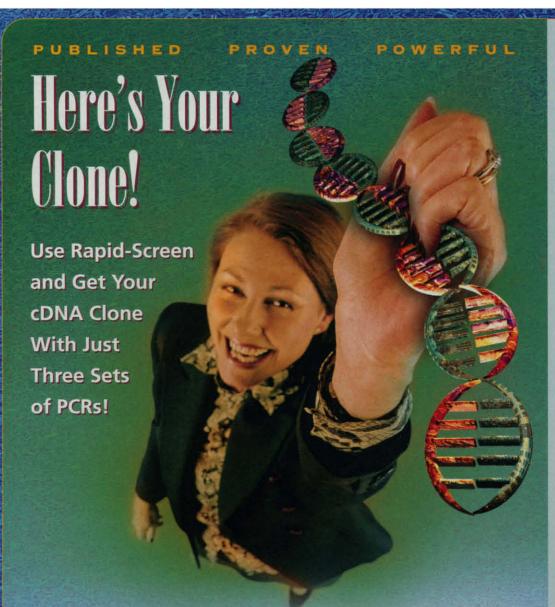
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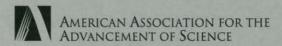
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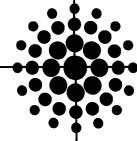




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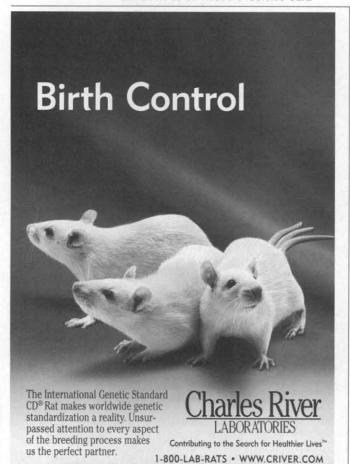
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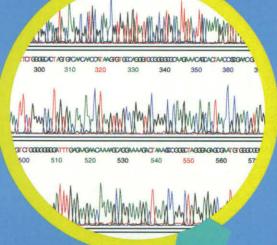
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The Department of Molecular and Cellular Biology is seeking a new tenure-track faculty member for appointment in 2000. Although an appointment at the ASSISTANT PRO-FESSOR level is preferred, outstanding candidates at more senior levels will be considered. Applicants with research interests in any area of molecular, cellular, or developmental biology (including computational biology) will be considered. Successful candidates will be expected to establish a competitive research program and to teach at both the undergraduate and graduate levels. Send curriculum vitae, a one to two-page statement of research interests, and have at least three supporting letters sent to: Danny Brower, Head, Department of Molecular and Cellular Biology, Life Sciences South Building, Room 444, The University of Arizona, Tucson, AZ 85721 USA. To ensure consideration, applications should be received by November 1, 1999, although applications will be accepted until the position is filled. The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer/Minorities/Women/Disabled/Veterans.

The University of Denver invites applications and nominations for the position of **CHAIR**, Department of Chemistry and Biochemistry. We are seeking a leader with demonstrable commitment to quality and innovation in teaching and research at both the undergraduate and graduate levels. The successful candidate will have an ongoing program of experimental research, preferably in an area of biological chemistry. Because academic departments are relatively autonomous, the leadership skills to balance advocacy with cross-disciplinary imperatives, some experience with budget management, and an ability for outreach, also are requirements. A detailed description of the Department, its faculty, programs, and facilities may be found at our website: www.du.edu/chemistry.

Applications, nominations, or inquiries concerning this position should be sent to: Dr. Dwight M. Smith, Department of Chemistry and Biochemistry, University of Denver, Denver, CO 80208. E-mail: dwismith@du.edu. Applications should contain a letter of interest summarizing qualifications, a curriculum vitae, and the names, addresses, and telephone numbers of at least three references. Applications will be reviewed commencing November 1, 1999, the review continuing until the position is filled.

The University of Denver is committed to enhancing the diversity of its faculty and staff and encourages applications from women, persons of color, persons with disability, and veterans.

University of Washington, Department of Chemistry seeks outstanding candidates for TENURE-TRACK or TENURED FACULTY APPOINT-**MENTS**. All areas of chemistry, including chemical biology, will be considered. For the latter, individuals applying chemical methods to study biological systems and diseases are encouraged to apply to join an already strong program in chemical biology. Candidates will be expected to participate in undergraduate and graduate teaching and to develop a vigorous, externally funded research program. Applicants must have a Ph.D. or equivalent degree by date of appointment. Please submit a curriculum vitae, statement of research and teaching interests, and three letters of reference to: Professor Paul B. Hopkins, Chair, Department of Chemistry (Search), Box 351700, University of Washington, Seattle, WA 98195-1700. Priority will be given to applications received by October 1, 1999. University of Washington is building a culturally diverse faculty and strongly encourages applications from women and minority candidates. Afffirmative Action/ Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITION DEPARTMENT OF MICROBIOLOGYIMMUNOLOGY

Northwestern University Medical School

Qualified candidates are sought for a full-time, tenure-track faculty position in the area of bacterial or fungal pathogenesis at the ASSISTANT PROFES-SOR level. Candidates are expected to have completed appropriate postdoctoral training, to have a demonstrated record of significant research accomplishments, and to be able to effectively develop an outstanding research program with extramural support. Northwestern University Medical School features interactive laboratories that study bacterial, viral, and protozoan pathogenesis and immune responses to infectious agents, in addition to numerous other aspects of immunity and autoimmune responses. There is a strong collaborative environment at Northwestern University Medical School that bridges traditional departmental lines. There are also very strong Ph.D. and M.D.-Ph.D. programs that attract excellent students and Postdoctoral Fellows. Applicants should send a statement of research goals, a complete curriculum vitae, and the names, addresses, telephone, and e-mail of three references to: Microbiology Faculty Search, Department of Microbiology-Immunology, Northwestern Unviersity Medical School, 303 East Chicago Avenue, Chicago, IL 60611-3008. The proposed starting date is September 1, 2000. Salary is negotiable. Applications will be reviewed upon receipt and, to ensure full consideration, should be received by January 31, 2000. Northwestern University Medical School is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.

FACULTY POSITION BIOCHEMISTRY WESLEYAN UNIVERSITY

The Department of Molecular Biology and Biochemistry invites applications for a tenure-track/tenured faculty position in biochemistry. The appointment may be made at the level of ASSISTANT, ASSOCIATE, or FULL PROFESSOR depending on the qualifications of the candidate selected. Candidates should have a Ph.D. and postdoctoral experience. A vigorous research program supported by extramural funds, and excellence in undergraduate and graduate teaching in biochemistry are expected. Please send curriculum vitae, description of research program, and the names of four scientists who can provide letters of reference by November 1, 1999, to: Molecular Biology and Biochemistry Search Committee, Department of Molecular Biology and Biochemistry, Wesleyan University, Middletown, CT 06459-0175.

Wesleyan is proud of its record of commitment to diversity in the student body, faculty, and staff, and encourages applications from women and persons of color. Wesleyan University is an Equal Opportunity/Affirmative Action Employer.

FACULTY MEMBER IN MOLECULAR BIOLOGY

The Institute of Molecular Biology and the Department of Biology at the University of Oregon seek a faculty member in molecular biology to begin fall 2000. We are particularly interested in individuals studying fundamental problems in genetics, cell biology, or developmental biology, but will consider outstanding applications in other areas. We anticipate filling this position at the ASSISTANT PROFESOR level, although more senior candidates will be considered. Interested persons should forward a curriculum vitae, statement of research interests/plans, and arrange for three letters of recommendation to be sent by November 15, 1999, to: George F. Sprague, Chair, Molecular Biology Search, Department of Biology, University of Oregon, Eugene, OR 97403-1210.

The University of Oregon is an Equal Opportunity/Affirmative Action Institution committed to cultural diversity and compliance with the Americans with Disabilities Act.

Solutions for Genomic Research

Incyte Pharmaceuticals is a leading provider of an integrated platform of genomic technologies designed to aid in the understanding of the molecular basis of disease. Our platform includes database products, genomic data management software tools and related reagents and services—information management tools critical to the pharmaceutical and biotechnology industries for drug discovery and development.

The employees of Incyte provide the tremendous energy, talent and expertise that will enable us to help revolutionize the world of healthcare. We're looking for individuals who share our vision and want to play a role in defining a new industry as we build our global organization.

We would be glad to visit with you at the 11th International Genome Sequencing and Analysis Conference presented by The Institute for Genomic Research in Miami Beach on September 18-21.

For our main campus in Palo Alto in the San Francisco Bay area, we are recruiting for the following positions. Please reply with resume and letter to: Incyte Pharmaceuticals, Inc., 3174 Porter Dr., Palo Alto, CA 94304, fax 650/845-4176, email employ@incyte.com.

Program Manager/ Director

Bioinformatics Programmers

Bioinformatics Research Associates

Scientist - Application

Scientist - IP Informatics

Scientific Programmers

Software Engineer (Java, C, C++)

Senior Directors of Client Business

Key Account Managers

Senior Director of Customer Service

Product Marketing Managers

Product Marketing Director

Competitive Strategy Analyst

Director of Corporate Development

At Incyte's advanced laboratory facility across the SF Bay in Fremont, we design, manufacture and process GEM™ microarrays. Consider the following challenging opportunities and then reply with resume and letter to: Incyte Microarray Systems, 6519 Dumbarton Circle, Fremont, CA 94555, fax 510/739-2200, email microarrayjobs@incyte.com.

Scientists

- Assay Development, GEM Technology
- Expression Databases
- Genotyping

Research Associates

Molecular Biology or Chemistry

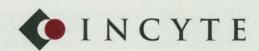
Software Engineers

- · Web Development
- Automation
- · Client/Server Database
- Applications Tech Support

Mechanical Engineer, Automation

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Incyte offers competitive salaries, an outstanding benefits package and significant opportunities for professional growth. We are proud to be an equal opportunity employer, and recognize the talent of our diverse workforce. EOE F/M/V.



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Research Scientist Senior Consumer Analyst

UNILEVER is among the top consumer products companies in the world in sales and innovation. Our success is built upon collaborative scientific research and product development efforts, resulting in over 1000 nationally and internationally known brands including Dove, Lever 2000, Vaseline Intensive Care, Suave, Pond's and premium fragrance and skin care products including Elizabeth Arden and Calvin Klein Cosmetics. At our global research facility located in Edgewater, NJ, we encourage our people to broaden their perspective and think beyond conventional scientific boundaries. To continue our success and growth, we seek candidates with specific experience for the following positions:

Research Scientist

We are currently seeking a research associate to work on the statistical analysis of gene expression patterns from DNA arrays. This position would provide an ideal opportunity for a mathematically trained scientist to apply their skills to one of the fastest growing and most exciting areas of modern biology. The candidate will be part of a multi-disciplinary team involving computer scientists, biologists and bioinformaticians that is investigating the application of state of the art mathematical and computational methods to biologically relevant problems. The successful candidate will have excellent communication skills and a strong mathematical background, particularly in areas such as multivariate statistical analysis, pattern recognition and machine learning. POSITION CODE: RS-SM

Senior Consumer Analyst

This position is in our expanding Consumer Science department. The candidate should have a MS degree in statistics, sensory science, psychology or related field with

strong quantitative research skills (applied research experience a plus). Computer skills and competency with statistical packages (e.g. SAS, SPSS, BioMed, S-Plus) are required (SAS preferred). Experience in univariate, multivariate and non-parametric statistics with demonstrated understanding of the rationale/scientific basis of these data analysis techniques are a must. Excellent interpersonal and time management skills are essential. Must also have good written and oral communication skills. Main responsibilities include experimental design, hypothesis generation, study execution, in-depth data analysis/interpretation and report writing. Other duties include assisting with database management and data retrieval/queries. POSITION CODE: CA-SM

We offer a competitive salary, flexible benefits including tuition assistance, and a dynamic environment filled with learning and discovery. For consideration please use the position codes as the subject in your e-mail response or in the address on your envelope. Forward your resume to: Human Resources Dept., Unilever Research US, 45 River Road, Edgewater, NJ 07020 or E-Mail: job.mca@unilever.com We appreciate your interest in our company and will contact applicants who most closely meet our immediate requirements. Applicants must be authorized to work in the U.S.A. Unilever is an Equal Opportunity Employer m/f/d/v



For more information about Unilever Research and Unilever visit our Internet Web Site at http://www.unilever.com

GRANTS



New award program provides \$3 million for research.

Open to U.S. and Canadian scientists.

The application deadline for the 2000 award series is December 1, 1999.

The Burroughs Wellcome Fund is an independent private foundation whose mission is to advance the medical sciences by supporting research and other scientific and educational activities.

Post Office Box 13901 Research Triangle Park, NC 27709-3901 Tel (919) 991-5100 Fax (919) 941-5884 E-mail: info@bwfund.org

Website: http://www.bwfund.org

INNOVATION AWARDS IN FUNCTIONAL GENOMICS

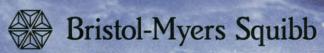
RESEARCH FONDING This new award program is intended to accelerate the integration of the vast amount of genomic sequence and expression data being generated into functional and clinically relevant information that will yield insights into mechanisms of human disease. Awards are offered in two areas:

Animal model development. Awards are intended to stimulate the development of innovative animal systems (primarily vertebrate) that capitalize on the availability of significant genomic sequence data to model complex human phenotypes and disease. Collaborative proposals linking geneticists working on model systems and clinicians investigating therapeutic approaches to related clinical phenotypes are encouraged. Computational methods development. Awards are intended to stimulate the development of new theoretical and mathematical models for extracting meaningful information from genomic sequence and expression data, as well as for synthesizing the structural and functional data coming from different gene expression networks and model systems. Collaborative proposals encompassing experimental validation of theoretical models are encouraged.

BWF has committed \$3 million to support from eight to 20 awards. Two levels of awards are offered in each targeted area: \$400,000 over a period of up to four years (generally more appropriate for animal models) and \$200,000 over a period of up to four years (generally more appropriate for computational methods).

Awards are open to individual candidates or small groups of collaborators. Candidates must have a Ph.D., M.D., or D.V.M. degree and hold a tenure-track faculty appointment at the assistant, associate, or full professor level. Proposals should focus on the modeling of complex multigenic traits, rather than on determining the functions of individual genes. Awards are not intended to support ongoing research.

Program information is available on BWF's website at http://www.bwfund.org



Pharmaceutical Research Institute

PRI Scientists: On the Wave of the Future

Filling the "people pipeline" with Innovative Scientists and Leaders who create Winning teams optimally positions Bristol-Myers Squibb PRI to be the most Productive, Respected, and Innovative R&D organization in the pharmaceutical industry. Developing leaders at all levels in the PRI will drive success now and into the new millennium.

Biological Process Sciences

Our Biological Process Sciences Department in Hopewell, New Jersey is expanding in response to new compound discoveries. The mission is to supply recombinant proteins to drive drug discovery and develop processes for production of recombinant proteins. Motivated B.S., M.S., and Ph.D. scientist in cell biology, biochemistry, biochemical engineering, microbial physiology, molecular biology, protein purification and protein analysis is essential to our team.

Bioreactor Scale-up Development

Associate Research Scientist - BS/MS in Chemical Engineering, Biochemical Engineering, Biochemical Engineering, Biological Science or related background and 3-5 years relevant experience with large-scale cell culture or bacterial reactors. Experience in use of statistical methods, cell culture and analytical techniques, development of mammalian cell and/or bacterial processes, and separation technology is essential. Knowledge of common cell culture processes, expression systems and scale-up concerns in mammalian cell and bacterial processes is required. Knowledge of how processes affect cGMP operations is also required. Code: PRDM110NGA

Assistant Research Scientist - BS/MS in Chemical Engineering, Biochemical Engineering, Biological Science or related background with 0-3 years experience in the Pharmaceutical industry. Experience with industrial cell culture or bacterial reactors, and analytical techniques is required. Knowledge of common cell culture processes, expression systems, and scale-up concerns in mammalian cell and bacterial processes is essential. Code: PRDM110NGB

Gene Expression Technology

Associate Research Scientist - BS/MS in Molecular Biology or Biochemistry with 3-4 years experience working in an academic lab/industry. Proficiency in utilization of mammalian cell hosts and experience in mammalian cell culture is required. Experience in molecular biology techniques including PCR, DNA subcloning, restriction mapping, site-directed mutagenesis, southern and northern blotting is necessary. Immunoassays experience and familiarity with DNA sequence analysis software and FACS is essential. Code: PRDM110SG

Purification Development

Research Investigator - Ph.D. in Chemistry, Biochemistry or Biochemical Engineering with 3-5 years of relevant industrial experience in large-scale protein purification. Knowledge in developing purification strategies for recombinant mammalian and microbial derived proteins at large scale and in optimizing purification process steps for scale-up is required. Experience with viral filtration and validation aspects, as well as bioseparation technologies and column chromatography is essential. Knowledge of purification method scouting, development equipment and biochemical characterization of recombinant biomolecules is necessary. Code: PRDM110AA

Protein Expression

Research Investigator - MS in Cell Biology or Microbiology with a minimum of applied experience. Experience in the development and optimization of media, strains and transfection techniques, as well as experience with the utilization of mammalian and/or microbial systems to express recombinant molecules. Knowledge of standard protein analysis techniques is required. PLC controlled fermentors and/or bioreactors experience is desirable. Code: PRDM110DSA

Research Investigator - Ph.D. in Microbial Physiology, Molecular Biology, Cell Biology or Microbiology with 0-5 years of postdoc or industrial experience. Proficient with the utilization of microbial systems to express recombinant molecules and experience in the development and optimization of media, strains and transfection techniques is required. Knowledge of microbial and cellular physiology is essential. PLC controlled fermentors and/or bioreactors experience is necessary. Experience with Phage Display technology is desirable. Code: PRDM110DSB

Postdoctoral Fellow

Postdoctoral Position - Ph.D. in Cell or Molecular Biology and experiences with recombinant DNA techniques, purification and analysis of proteins. Background in the areas of cell cycle, apoptosis and growth factors desired. Initiate research projects to develop novel mammalian expression systems through engineering of host cells and improvement of cell culture methods. Code: PRDM110DSG

We invite creative, innovative minds to explore the opportunity to contribute to the future in a collaborative, scientific environment dedicated to excellence and integrity. Bristol-Myers Squibb uses resume-scanning technology. Please submit resumes, including Code #, on plain white bond paper, using standard type and fonts (no italics, graphics or staples please) to:

Bristol-Myers Squibb Company Pharmaceutical Research Institute P.O. Box 5400HW19-223 Princeton, NJ 08534-5400

Associate Laboratory Director Basic Energy Sciences

Brookhaven National Laboratory (BNL) is seeking candidates for the Associate Laboratory Director (ALD) for Basic Energy Sciences (BES). This Directorate contains several major research and facility sectors; Chemical Sciences, Material Sciences, The National Synchrotron Light Source (NSLS), and the High-Flux Beam Reactor (HFBR). The annual budget of the Division is about \$78 Million with a staff of 350. The position reports to the Laboratory Director.

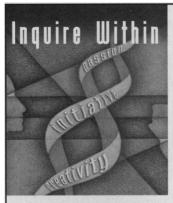
The ALD for BES provides overall scientific and managerial leadership for the science programs and the facilities in the Directorate. The successful candidate should have a Ph.D. degree and a distinguished research career in the chemical and/or material sciences accompanied by proven experience in the management of a mid-size research effort. He/she will develop internationally recognized programs that are aligned with the mission of the U.S. Department of Energy and participate at the Director's level in the Laboratory-wide planning for new programs and user facilities. He/she has line responsibility for the safe and environmentally sound operation of the science programs and the facilities.

Recent areas of scientific focus are complex materials and chemical catalysis. In the facilities sector the focus will be on maintaining and expanding the capabilities of the NSLS with expanding applications to biological sciences, and on developing the technology for an X-ray free electron laser. We also seek to enhance the program in neutron scattering at Brookhaven both at the HFBR and at the emerging spallation neutron sources.

BNL is managed by Brookhaven Science Associates under contract with the U.S. Department of Energy. We will begin screening applications September 1, 1999, and plan to fill the position by January 1, 2000. Applications should be sent to R. D'Angio, Human Resources Division, Brookhaven National Laboratory, Bldg. 185, P.O. Box 5000, Upton, L.I., NY 11973-5000. BNL welcomes diversity and encourages applications from all qualified individuals.



www.bnl.gov



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PROTEIN NMR GROUP

The main focus of the group is to apply and develop techniques for studying the solution structures of proteins and protein/protein or protein/ligand complexes of therapeutic interest. In addition, the group undertakes studies of biologically active peptides and small molecules with particular emphasis on determining their conformations. The protein NMR facilities include dedicated 800, 600, and 500 MHz spectrometers, SGI workstations, and a fully equipped protein expression and purification lab. The NMR facility complements protein engineering, protein crystallography and modeling efforts within the Protein Engineering Department. Highly motivated researchers, capable of independent work in a collaborative setting, are sought for the following positions.

Research Assistant/Associate

The successful candidate will be responsible for all aspects of the production and characterization of proteins for structural analysis by NMR spectroscopy and X-ray crystallography. The work includes constructing and optimizing bacterial expression vectors, site-directed mutagenesis, *E. coli* growth and fermentation, and protein purification and refolding. Requires a BS or MS in Biochemistry, Chemistry, or related discipline and 3+ years experience in areas related to protein chemistry (purification, refolding, characterization) and molecular biology (mutagenesis, bacterial expressions). Strong analytical, communication, and organizational skills are essential. Reply to Dr. Melissa Starovasnik. Job Code SCI795

Postdoctoral Research OpportunitiesProtein Structure

The applicant must be familiar with the principles and practice of protein NMR spectroscopy and protein structure determination. Peptide synthesis and/or molecular modeling experience would be advantageous. Reply to Dr. Wayne Fairbrother. Job Code SCI1881

Peptide Structure and Design

The applicant must be familiar with the application of NMR spectroscopy and peptide structure determination. Molecular biology and/or protein chemistry experience would be advantageous. Reply to Dr. Nicholas Skelton. Job Code SCI1862

PROTEIN ENGINEERING GROUP Research Assistant/Associate

This position is in our Protein Engineering Group, which is engaged in structurefunction work on receptor-ligand interactions. The successful candidate will use protein engineering methods to optimize molecules having therapeutic potential. In addition, diversity methods will be used to select antagonists of receptor-ligand interactions. Requires a BS or MS in Biochemistry, Molecular Biology, or Biophysics. Strong experience in protein chemistry or molecular biology is required. Experience with phage display methods is desirable. Reply to Dr. Robert Kelley. Job Code SCI840

We offer industry-leading benefits. Send your resume/c.v., indicating appropriate Job Code, to: Genentech, Inc., Human Resources, PO Box 1950, South San Francisco, CA 94083-1950. Please use plain typefaces. You may email your resume, again indicating Job Code, to Jobs@gene.com (ASCII files only with a maximum line width of 76 characters). We cannot accept faxed resumes. Genentech is an Equal Opportunity Employer.

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Research Associates



As the world's largest biotechnology company, Amgen is fulfilling its mission to develop and deliver cost-effective therapeutics based on advances in cellular and molecular biology. We have these immediate opportunities in our Neuroendocrinology Department.

Cell Biology (Ad Code: 384)

Perform cutting edge research to discover and validate novel therapeutic targets. Experimental emphasis on cell biology and tissue culture, with a working knowledge of molecular biology helpful. The position also entails extensive interactions with other departments and laboratories. Requires 5+ years research experience in a pharmaceutical biotechnology environment with extensive cell biology experience including the ability to grow and manipulate cells in culture, primary cell isolation and growth, and creation of stable and clonal cell lines. Experience in developing whole cell functional assays including direct measurements of second messengers, proliferation, and various reporter assays. Knowledge of molecular biology would be helpful, especially with RT-PCR, gene quantification techniques, running northern blots, and mammalian gene expression. Experience in small molecule drug discovery and using automation to perform repetitive tasks would be an advantage. MS in life science field preferred, but will consider BS with more work experience.

Molecular Biology (Ad Code: 385)

Become a member of the endocrinology receptor discovery team. The ideal candidate will possess molecular biology expertise allowing the discovery and validation of novel therapeutic targets. The ability to design experiments and work with minimal supervision is essential. We require 5+ years research experience in a pharmaceutical biotechnology research environment, and a strong biochemistry background with an emphasis on molecular biology. Candidates will be expected to independently construct cDNA libraries, screen libraries by a variety of methods, use advanced PCR techniques (for cloning, screening, mutagenesis, and quantification of gene expression), RNA isolation and characterization, and general DNA manipulations, including gene structure analysis. Knowledge and experience in characterizing ligand-receptor interactions is a must. Demonstrated expertise in mammalian cell culture and DNA transfection will be required, preferably with experience with mammalian protein expression, automation platforms, assay development or microarray. BS/MS in Biochemistry or related discipline.

We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center, and three weeks of vacation. For immediate consideration, please e-mail your ASCII text resume to: jobs@amgen.com, Attn: Ad Code (indicate appropriate Ad Code) or mail to: Amgen Staffing, Ad Code (indicate appropriate Ad Code), P.O. Box 2569, Thousand Oaks, CA 91319-2569. Visit our website: www.amgen.com EEO/AA Employer M/F/D/V



EMINENT SCHOLAR IN NANOTECHNOLOGY

The University of Louisville is pleased to announce a new faculty opening for an Eminent Scholar with a distinguished record of achievement in an area of Nanometer-Scale Science and Technology. Candidates with outstanding records of scholarly achievement who have made substantial contributions to the field of Nanotechnology, as evidenced by publications in refereed journals, patents, grants and other records of creativity in science and technology, will be considered for the position. Research areas that will be considered include (but are not limited to) surface profiling microscope development and application; development of nanofabrication methods e.g. proximal probe, electron, ion, or photon beam lithographies; design, synthesis and application of self-assembled monolayers for soft lithography and chemically-assembled electronics; and the exploration of quantum effects devices and their application to novel computer systems and architectures. Regardless of area of specialization, a major consideration for the position is the quality and likely value of the research plan as proposed by the applicant.

It is anticipated that the position will complement interdisciplinary research activities in electronic materials and devices at the University of Louisville, and other Kentucky institutions and businesses. These activities include the development of functional devices such as diffractive and integrated optics, MEMS, magnetic thin film sensors, imaging arrays and chemical sensors; fabrication and processing of diamond, magnetic and superconductive thin films and devices; synthesis, characterization and application of nanophase materials; atomically-resolved theoretical modeling and experimental studies of the properties of surfaces and interfaces; and applied nanolithography.

The successful candidate would qualify for tenure with a primary faculty appointment in the Electrical and Computer Engineering Department. Applications will be considered on receipt and until the position is filled.

Apply by sending a letter of intent and CV to the search committee chair: Professor Robert W. Cohn, Director, The ElectroOptics Research Institute, Lutz Hall, Rm 442, University of Louisville, Louisville, Kentucky 40292. http://www.ec.louisville.edu/~eri. The University of Louisville is an AA/EOE.





Mayo Clinic Molecular Immunology

NIH supported postdoctoral positions are available to study:

- 1) Mechanisms of T-cell homeostasis in autoimmune disease
- 2) Expression and function of MHC Class I recognizing receptors in autoimmune disease
- 3) Mechanisms of arterial occlusion in inflammatory vasculopathies

Candidates should have a PhD or MD and have experience in cellular immunology and molecular biology. Applications, including curriculum vitae and names of three references, should be sent to:

Cornelia M. Weyand, MD or Jorg J. Goronzy, MD
Departments of Immunology
and Medicine/Rheumatology
Mayo Clinic
200 First Street SW
Rochester, MN 55905
e-mail: weyand.cornelia@mayo.edu
goronzy.jorg@mayo.edu

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ACADIA Pharmaceuticals is a drug discovery company

that integrates proprietary high-throughput (HT) pharmaco-

logical, chemical, and genomic technologies to accelerate the identification of compounds that selectively target neuronal function. Internal research is focused on schizophrenia, Alzheimer's disease, depression, orphan GPCR's, and feeding disorders. Corporate headquarters and biological research are located in San Diego, California (CA); chemistry research facilities are located in Copenhagen, Denmark (DK).

Post-doctoral training opportunities are available with the following individuals (see also www.acadia-pharm.com):

Carl Magnus Andersson, Ph.D. (DK): Compound library design and HT solution or solid phase organic synthesis.

Mark R. Brann, Ph.D. (CA): HT analysis of GPCR SAR and roles of GPCR's in neuropsychiatric diseases.

Ethan Burstein, Ph.D. (CA): Cellular signal transduction, especially in GPCR's, G-proteins, and ras-family G-proteins.

Glenn Croston, Ph.D. (CA): HT cell-based assays in functional genomics and mapping receptor/ligand interactions.

David Gibson, Ph.D. (CA): HT cell-based pharmacological tools in drug discovery and profiling.

Uli Hacksell, Ph.D. (CA&DK): SAR of GPCR's and integration of molecular design and drug discovery.

Norman Nash (CA): Cloning novel receptor genes and RNA-based detection systems to identify functionally regulated expression.

Jan Pedersen, Ph.D. (DK): SAR, QSAR and molecular modeling techniques; design of chemical libraries and pharmacophores.

Fabrice Piu, Ph.D. (CA): Molecular determinants of signal transduction pathways utilized by various families of receptors, especially cytokine and nuclear receptors.

Niels Skjærbæk, Ph.D. (DK): Medicinal chemistry projects for the generation of small molecules targeting the CNS.

Tracy A. Spalding, Ph.D. (CA): Mutagenesis/SAR projects to investigate GPCR's and ligands.

David Weiner, M.D. (CA): Genetic and pharmacological approaches to define the pathophysiologic roles of GPCR's in neuropsychiatric disease.

Tenure-Track Faculty Positions University of Michigan Medical School

The Department of Dermatology, University of Michigan Medical School, invites applications for tenure-track faculty appointments at the Assistant Professor level. We are particularly interested in candidates using state-of-the-art approaches to study 1) molecular mechanisms of cell activation by ultraviolet irradiation; 2) regulation of signal transduction by reactive oxygen/anti-oxidants; 3) functions of nuclear receptor superfamily members and cross talk between nuclear receptors and AP-1/NF-KB; and 4) regulation of collagen and elastin synthesis and turnover by matrix metalloproteinases. All candidates must have a Ph.D. or M.D. degree, at least 5 years of postdoctoral experience, and a strong record of research accomplishments with peer-reviewed publications. Selected applicants would join a 50-member multidisciplinary research team studying molecular mechanisms of skin repair. The ongoing comprehensive research effort provides a unique opportunity to study regulation of signal transduction and gene expression at the molecular level in a human organ in vivo (Nature, 379:335-339, 1996; New England Journal Medicine 337(20) 1419-1428, 1997; JCI 101:1432-1440, 1998; and Nature Medicine 5(4) 418-422, 1999). The successful candidates will be expected to establish primary and collaborative research programs, obtain extramural funding, and participate in teaching. An outstanding start-up package with competitive salary and fringe benefits is available. Interested applicants should submit curriculum vitae, brief description of research and career objectives (max. one page and double-spaced), and 3-5 qualified references to:

John J Voorhees, MD, Professor and Chair, University of Michigan Department of Dermatology, 1150 W Medical Center Drive, Med Sci I 6447, Ann Arbor MI 48109-0609. Fax 734-647-0076; email dianemch@umich.edu. Review of candidates will begin on Sept. 20, 1999, and continue until the position is filled.

We encourage applications from candidates who will enrich and contribute to the cultural diversity of our University.





We seek experienced and motivated scientists with well-documented expertise in both molecular biology and microbiology to develop products that improve healthcare. With an emphasis on teamwork, creativity, and intellectual achievement (publishing encouraged), we are dedicated to providing a challenging and stimulating work environment, and a generous salary/benefits package.

You should be an energetic self-starter who enjoys the challenge of developing and applying new molecular biological technology. Well-documented productivity and integrity; strong organizational, interpersonal, and communication skills required.

SR. SCI. / SCIENTISTS (job code: SS999)

You should have strong skills in molecular biology and microbiology and proven abilities in conceptualizing, developing and troubleshooting new molecular biological assays. Sr. Scientists must have solid team leadership & project management abilities, and must have demonstrated excellence in product development for nucleic acid-based infectious disease diagnostics. Ph.D. + post-doc required; industry experience a plus.

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ystems
is an exciting,
well-financed, Cambridge-based startup
company with breakthrough genetic technology for producing a new
generation of tools that
promise to revolutionize infectious

Please submit a resume, one page cover letter, and contact information for 4 references (specifying relationship) to:

Job Code______ Genomic Profiling Systems, Inc. 840 Memorial Drive, 4th FI Cambridge, MA, 02139

Or FAX to: 617 547-6060

disease diag-

nostics.

Or email (text or attached MS Word file) to: jobs@genprosys.com

(include last name & job code in BOTH the subj. line of email AND attached



U.S. Civilian Research & Development Foundation (CRDF) for the Independent States of the Former Soviet Union

PROPOSAL REVIEW

This fall, the CRDF will be calling upon the U.S. and international scientific community to assist with review of proposals submitted to the CRDF Cooperative Grants Program. This program will provide joint research grants to teams of scientists and engineers from the U.S. and the former Soviet Union in all areas of civilian research and development.

Should your expertise be needed, the CRDF will contact you for proposal review. Because immediate support is needed in the former Soviet Union, we are conducting this review cycle on an ambitious timetable and appreciate your prompt attention to completing your evaluation as soon as possible. We are grateful for your assistance.

For more information, please contact:

U.S. Civilian Research & Development Foundation 1800 North Kent Street, Suite 1106 Arlington, VA 22209 USA Tel: 703-526-9720 • Fax: 703-526-9721 E-mail: information@crdf.org http://www.crdf.inter.net



Postdoctoral Positions

Department of Biochemistry and Molecular Pharmacology Postdoctoral Scientists are sought by the following laboratories:

Ya-Ming Hou, Ph.D. Enzymology and molecular genetics of tRNAs and tRNA-related enzymes. Design new tRNA specificities and tRNA-based therapies.

Erica Johnson, Ph.D. The ubiquitin-related protein Smt3/SUMO: Conjugation pathway and function in Saccharomyces cerevisiae.

Michael P. King, Ph.D. Molecular genetics of neuromuscular diseases; Motor neuron and glial cell development; Mitochondrial biogenesis.

Gerald Litwack, Ph.D. Molecular genetics of glucocorticoid and mineralocorticoid receptors; Cellular and molecular mechanisms in eosinophil apoptosis and survival in airway inflammation in asthma.

Diane Merry, Ph.D. Molecular genetics of neuromuscular and polyglutamine expansion diseases; Biochemical studies of protein misfolding in neurodegenerative disease.

Joan Overhauser, Ph.D. Clinical and molecular characterization of cri-du-chat syndrome and other chromosomal syndromes; Molecular genetics of psychiatric disorders.

Peter Ronner, Ph.D. Regulation of insulin and glucagon release by ATP-sensitive K-channels, Role of cellular metabolism in signal transduction.

Edward Winter, Ph.D. Molecular and genetic analysis of meiotic development and MAPK signaling pathways in Saccharomyces cerevisiae.

Submit a curriculum vitae, specifying to which researcher(s) you are applying, to: Kathleen Whittock, Department of Biochemistry and Molecular Pharmacology, Thomas Jefferson University, 233 South 10th Street, BLSB 350, Philadelphia, PA 19107 Email: Kathy.Whittock@mail.tju.edu

Thomas Jefferson University is an Affirmative Action/Equal Opportunity Employer



FACULTY POSITIONS MICROBIOLOGY AND IMMUNOLOGY AND PEDIATRICS

The Department of Microbiology and Immunology, College of Medicine, University of Kentucky, seeks candidates for two full-time tenure track faculty positions at the Associate and/or Assistant Professor

level in molecular viral pathogenesis, viral-host interactions or host immune response to infections.

Applicants should have a Ph.D. and/or M.D., or equivalent degree, and postdoctoral experience. We are particularly interested in pediatric scientists with research interests related to child health. Successful candidates are expected to develop/maintain innovative, externally-funded research programs as well as participate in graduate and medical student teaching. This is an excellent opportunity to join an established group of faculty with a strong predoctoral and postdoctoral training program and research programs in microbial pathogenesis, eucaryotic molecular biology, molecular and cellular immunology, molecular virology and tumor biology.

Excellent start-up funds, state-funded salary commensurate with experience, and modern research facilities will be provided. Applications should include curriculum vitae, representative reprints, a summary of past experience, a statement regarding research interests and future plans, as well as three letters of recommendation. All material should be sent to Dr. Jerold Woodward, Chair, Faculty Search Committee, Department of Microbiology and Immunology, MS415 Medical Center, University of Kentucky, Lexington, KY 40536-0298. Telephone: 800-462-5257, Fax: 606-257-8994. The University of Kentucky is an Equal Opportunity/Affirmative Action Employer and has an affirmative duty to reasonably accommodate otherwise qualified individuals with a disability.

UNIVERSITY OF CALIFORNIA, BERKELEY: BIOENGINEERING

THE UNIVERSITY OF CALIFORNIA, BERKELEY invites applications for tenure-track positions in BIOENGINEERING beginning 2000-01, at the ASSISTANT, ASSOCIATE, OR FULL PROFESSOR LEVELS. The positions are in the new Department of Bioengineering on the Berkeley campus, which has a joint graduate program at Berkeley and the University of California, San Francisco (UCSF), and plans a joint, inter-campus department between the two UC campuses.

Applicants should have (or be about to receive) a doctoral degree in engineering, or the biological or physical sciences with a clear relationship to bioengineering. The academic and research programs seeking faculty are tissue bioengineering with cell and molecular biology emphases, and bioinformatics with functional genomics and computational biology emphases. The positions include opportunities for involvement in relevant programs at UCSF and the Lawrence Berkeley National Laboratory (LBNL). Principal requirements for these positions are demonstrated excellence in research, and potential for excellence in teaching and leadership. Successful applicants will be expected to establish a quality research program and to teach both graduate and undergraduate courses in their general area of bioengineering specialty.

Applicants should send, by November 30, 1999, a resume, a selected group of publication reprints (5 or less), a short description of past research, a two- to three-page statement of future research plans and interests, and the names of three references to the address below. APPLICANTS SHOULD REQUEST THEIR REFERENCES FORWARD LETTERS OF REFERENCE DIRECTLY TO THE SAME ADDRESS. These letters will NOT be requested directly by the department.

Send materials to: Thomas F. Budinger, M.D., Ph.D., Chair, Department of Bioengineering, 459 Evans Hall #1762, University of California, Berkeley, CA 94720-1762. Applications postmarked after the deadline will not be considered. The University of California is an Equal Opportunity, Affirmative Action Employer.

MJ RESEARCH IS A LEADING MANUFACTURER OF LAB PRODUCTS FOR BIOMEDICAL RESEARCH, INCLUDING THERMAL CYCLERS FOR DNA AMPLIFICATION & CYCLE SEQUENCING, AS WELL AS RELATED DISPOSABLE PRODUCTS AND DNA ANALYSIS EQUIPMENT.

The following opportunities are available at MJ Research, Inc.

Scientific Field Sales Representatives (Job Code GM1)

Attention Post Docs! We seek self-motivated, personable and energetic molecular biologists for technical sales opportunities throughout the US. Advanced degree required, prefer PhD in molecular biology or related field. Sales experience not necessary. Exceptional earning potential.

Inside Sales Representatives (Job Code GM2)

Massachusetts-based. Must have an advanced degree with extensive molecular biology experience. Will perform market research, telephone sales, attend conferences, generate leads and provide technical support.

National Sales Manager (Job Code GM3)

Directly manage our North American sales force. Develop training programs. Manage and set sales goals. Must have 5+ years in research product sales and sales management. Advanced degree required, prefer PhD in molecular biology or related field.

Customer Service Representatives (Job Code GM₅)

Heavy phone contact with customers. Work closely with sales, marketing and shipping. Data entry and analysis, order entry and processing, customer support, administrative support of sales reps. Massachusetts-based BA/BS required. Some CS experience preferred. Multilingualism a plum

MJ RESEARCH OFFERS COMPETITIVE SALARIES AND EXCELLENT BENEFITS. PLEASE VISIT OUR WEBSITE AT WWW.MJR.COM FOR MORE INFORMATION AND OTHER JOB OFFERINGS. INTERESTED CANDIDATES SHOULD SUBMIT A RESUME TO HR DEPARTMENT; MJ RESEARCH, INC.; 590 LINCOLN STREET; WALTHAM MA 02451. FAX TO 617-972-8085 OR E-MAIL TO HR@MJR.COM. PLEASE REFERENCE THE APPROPRIATE JOB CODE. ALL CANDIDATES MUST BE ELIGIBLE TO WORK IN THE US WITHOUT A SPONSOR. AA/EOE.

UCI

UNIVERSITY OF CALIFORNIA, IRVINE MAJOR INITIATIVE IN THE CHEMISTRY AND PHYSICS OF MATERIALS

As part of a major new multidisciplinary initiative in materials chemistry and physics, the School of Physical Sciences at the University of California, Irvine, invites applications for at least five new faculty openings at all levels. Applications are encouraged from candidates in all areas of materials chemistry and physics, including but not limited to the areas of biomaterials, nanomaterials, electronic, photonic and magnetic materials, polymers, ceramics, atomic scale manipulation, novel applications of materials to technology, and theoretical work related to these topics. At the Assistant Professor level we are seeking outstanding Ph.D.s who will establish vigorous research programs in areas that will complement existing strong programs in both the Department of Chemistry, and the Department of Physics and Astronomy. The ability to effectively teach chemistry or physics at the undergraduate and graduate levels is required.

Applicants for Assistant Professor positions should send their curriculum vitae, a list of publications and a research proposal to Dean Ronald Stern, Materials Search Committee, School of Physical Sciences, University of California, Irvine, California, 92697-4675. Applicants should also arrange to have three letters of recommendation submitted on their behalf. Candidates for the senior faculty openings should submit their curriculum vitae including a short description of their present research activities, and a list of potential references to the address above. To ensure full consideration during the 1999/2000 academic year, applications and all supporting materials should be received by November 15,1999.

The University of California is an Equal Opportunity Employer committed to excellence through diversity.

Phased Technology Application Award for Pilot Applications of Novel Technologies

Applications are solicited for:

Applications of Innovative Technologies for the Molecular Analysis of Cancer

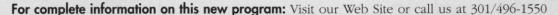
The program features:

- Single application for technology evaluation and application phases
- Expedited transition for successful technology evaluation to an expanded application phase
- Flexible budgets
- Flexible staging of evaluation and application phases

Applications of molecular analysis tools for the study of cancer model systems, preclinical and clinical samples, and for the use in population or epidemiologic research are sought.

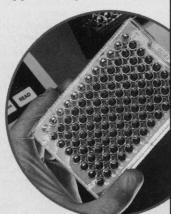
Technologies of interest include those that are suitable for *in vitro*, *in situ*, or *in vivo* (e.g. imaging) analysis of:

- Alterations and instabilities in genomic DNA
- Expression of genes and gene products
- Cellular localization, post-translational modification, and function of proteins
- Major signal transduction networks involved in cancer
- Exogenous infectious agents in cancer



www.nih.gov/grants/guide/pa-files/PAR-99-102.html

Small businesses are encouraged to consider a parallel announcement at: www.nih.gov/grants/guide/pa-files/PAR-99-103.html



Phased Innovation Award for Technology Development

Applications are solicited for:

Innovative Technologies for the Molecular Analysis of Cancer

The program features:

- Single application for technology research and development phases
- Expedited transition for successful technology research to an expanded development phase
- Flexible budgets
- Flexible staging of feasibility and development phases

 Molecular analysis tools for the study of cancer model systems,

 preclinical and clinical samples, and for the use in population

preclinical and clinical samples, and for the use in population or epidemiologic research are sought.

Technologies of interest include those that are suitable for *in vitro*, *in situ*, or *in vivo* (e.g. imaging) analysis of:

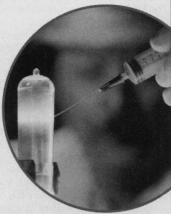
- Alterations and instabilities in genomic DNA
- Expression of genes and gene products
- Cellular localization, post-translational modification, and function of proteins
- Major signal transduction networks involved in cancer
- Exogenous infectious agents in cancer

For complete information on this new program: Visit our Web Site or call us at 301/496-1550

www.nih.gov/grants/guide/pa-files/PAR-99-100.html

Small businesses are encouraged to consider a parallel announcement at: www.nih.gov/grants/guide/pa-files/PAR-99-101.html







CHALLENGING BIOMEDICAL EMPLOYMENT OPPORTUNITIES DHHS/PHS/FOOD AND DRUG ADMINISTRATION CENTER FOR BIOLOGICS EVALUATION AND RESEARCH

The Center for Biologics Evaluation and Research is searching for outstanding microbiologists, biologists, chemists, and medical technologists to work in areas such as molecular biology, immunology, cell biology, biochemistry, virology, medical technology and genetics. Some positions may involve working with HIV and/or HTLV-1 virus. Opportunities for professional development may include further training and attendance at scientific meetings and conferences.

The Center's mission is to regulate blood, vaccines, biological therapeutics and related products according to statutory authorities in order to protect and enhance the public health. The regulation of these products is founded on science and how to ensure their purity, potency, safety, efficacy, and availability. In conjunction with regulation and research responsibilities, the Center statistically evaluates clinical and preclinical studies of human biological products and vaccines and epidemiologically evaluates post-marketing studies and adverse biologics reactions.

Qualifications: These positions require specific course work in the field of study and professional experience or directly related postgraduate education for positions above the entry level. Advanced training and/or experience in one or more of the following areas, is desirable: cell and molecular biology and immunology, virology, cytokines and growth factors or related disciplines. U.S. Citizenship is required.

Location: Offices and laboratories are strategically located on the campus of the National Institutes of Health in Bethesda, Maryland, in close proximity to the campus.

Salary: Salary range for GS-5 through GS-11 is \$22,208 to \$52,927 per annum, plus an excellent benefits package and flexible work schedules. Salary and level of responsibility are commensurate with education and experience.

How To Apply: Applications are accepted throughout the year, and candidates should indicate when they will be available for employment. Interested candidates should send an Application for Federal Employment (SF–171), Optional Application for Federal Employment (OF–612), OR a Curriculum Vitae/Resume with bibliography, transcripts, and names of three references to:

Food and Drug Administration Center for Biologics Evaluation and Research 1401 Rockville Pike, HFM-123 Rockville, Maryland 20852-1448 Attention: Lisa Durphy 99013

FDA IS AN EQUAL OPPORTUNITY EMPLOYER AND HAS A SMOKE FREE ENVIRONMENT

COLUMBIA UNIVERSITY

College of Physicians and Surgeons

Faculty Positions in the Departments of Physiology and Cellular Biophysics, Pathology, Anatomy and Cell Biology, Biochemistry and Molecular Biophysics, Genetics and Development, and The Center for Neurobiology and Behavior

As part of a continuing expansion in developmental neurobiology at Columbia University, we invite applications for tenure-track faculty positions. Preference will be given to candidates who address fundamental questions in areas ranging from cell lineage and specification, transcriptional regulation, and signalling to axon guidance and synaptogenesis and whose interests complement those of the existing groups of investigators of developmental neurobiology at this campus.

Applicants must hold an M.D. or a Ph.D. and be capable of establishing and maintaining a strong, independent research program.

Please send a curriculum vitae, a brief statement of research interests, and three letters of reference, by December 1, 1999, to:

Ms. Nontrel K. Carwell Neurobiology Search Columbia University P&S 11-511 630 West 168th Street New York, NY 10032

E-mail applications will not be accepted.

Columbia University is an equal opportunity/ affirmative action employer.

University of Minnesota

Twin Cities

Department of Biochemistry, Molecular Biology and Biophysics Tenure-Track Assistant Professor Positions

The University of Minnesota has begun a new \$123 million initiative that will result in the construction of a new Molecular and Cell Biology Building and the hiring of new faculty in basic biological science departments over the next three years. As part of this new initiative, the Department of Biochemistry, Molecular Biology and Biophysics invites applicants for several full-time, tenure-track Assistant Professor positions to start on or after July 1st, 2000. The Microbial Biochemistry & Biotechnology Division seeks candidates who conduct research in either or both computational and experimental aspects of microbial genomics. The Molecular Biology Division seeks candidates who study basic mechanisms of transcription or genome replication and maintenance. The Regulatory Biochemistry Division seeks candidates using molecular biological and biophysical techniques to study glucose homeostasis in diabetes mellitus. The Structural Biology & Biophysics Division seeks candidates who investigate the structure and dynamics of proteins and/or nucleic acids, with primary emphasis on the techniques of high-field NMR, x-ray crystallography, and/or spectroscopy. For more details about these positions please consult: http://cbs.umn.edu/BMBB/.

Successful candidates will be expected to develop strong, externally funded research programs and will contribute to the undergraduate, graduate and professional teaching programs of the department. The ability to interact collaboratively among a variety of disciplines will be strongly encouraged. All candidates must have a Ph.D. and/or MD degree. Desired experience includes at least two years of postdoctoral equivalent experience, and a strong publication record. Successful candidates must be U.S. citizens or be able to secure permanent resident status. Successful candidates will receive a substantial start-up package to establish their laboratories and a salary commensurate with education and experience. Please send a curriculum vitae, statement of research interests, and three letters of recommendation that consider both research and teaching potential, by October 15, 1999, to: BMBB Search Committee, c/o Mr. Jeff Schaub, University of Minnesota, Department of Biochemistry, Molecular Biology and Biophysics, 6-155 Jackson Hall, 321 Church Street, S.E., Minneapolis, MN 55455 or schaub@biosci.cbs.umn.edu.

SYMPOSIUM

Whitehead Symposium XVII

"The Biology of Drug Discovery"

October 24 – 26, 1999 Kresge Auditorium, MIT

Speakers include: Susan Amara, Carolyn Bertozzi, Patrick Brown, Jonathan Ellman, Ronald Evans, Stanley Fields, Judah Folkman, Claire Fraser, Ulrike Heberlein, Ira Herskowitz, Peter Kim, Chaitan Khosla, Eric Lander, John Mekalanos, Stuart Schreiber, Edward Scolnick, Robert Siliciano, Jose Varghese, Inder Verma, Charles Weissman, Jim Wells, Dyann Wirth.

Registration

Regular (includes postdocs): \$100 Student: \$35 (ID required) MIT Student: No charge

To obtain a registration form call Whitehead Institute Public Affairs at 617-258-5183, or visit Whitehead Institute's website at www.wi.mit.edu and click on "conferences."



The University of Texas at Austin

Senior Faculty Positions in the Institute for Cellular and Molecular Biology

The Institute for Cellular and Molecular Biology invites applications for two Endowed Chair positions. The Chairholders will be appointed at the rank of Professor in one of the associated academic units. Candidates should have an internationally-recognized research program involving application of molecular biological and/or biochemical approaches to important biological problems. The positions carry an excellant salary and start-up package, supplemental research support and space in the new Moffett Molecular Biology Building.

The Institute provides administrative and financial support for the University-wide Graduate Program in Molecular Biology and for state-of-the art core facilities for DNA and protein analysis, electron and confocal microscopy, and mouse genetic engineering.

Building on a strong existing faculty, recent hires include Andy Ellington, Mark Estelle, Ellen Gottlieb, Robin Gutell, Adron Harris, Ken Johnson, Bob Krug, Paul Macdonald, Jacek Nowakowski and John Tesmer.

Nestled in the hill country of Texas, Austin is widely recognized as one of America's most beautiful and livable cities.

Please send curriculum vitae, summary of research interests, and names of referees to:

Dr. Alan M. Lambowitz, Director Institute for Cellular and Molecular Biology The University of Texas at Austin 2500 Speedway Austin, Texas 78712-1095

Visit the ICMB Homepage http://www.icmb.utexas.edu

The University of Texas at Austin is an Equal Opportunity Employer. Qualified women and minorities are encouraged to apply.

PENNSTATE



Altoona

PHYSICS FACULTY

(Tenure Track)

Penn State Altoona holds senior college status within The Pennsylvania State University. Nestled in the mountains of south-central Pennsylvania, the 115 acre campus is located in a suburban setting forty-five miles from the University Park Campus. Established in 1939, Penn State Altoona enjoys strong support from the surrounding county with a population of over 130,000. Altoona is a two-hour drive from Pittsburgh and three hours from Washington, DC. The approximately 3500 students attending Penn State Altoona can choose to start the first two years of 160 baccalaureate majors or complete eleven associate degrees or seven baccalaureate degree majors. Baccalaureate degree offerings continue to expand.

The College seeks a tenure track faculty member in Physics with responsibilities for teaching, conducting research, and performing professional, university, and community service. Candidates must have a Ph.D. in Physics or a closely related discipline, teaching experience and strong interest in undergraduate instruction, and a demonstrated ability to develop a program of research.

Position requires the doctorate and is a tenure track appointment beginning Fall 2000 at the level of assistant professor or a rank commensurate with qualifications. Applicants should possess excellent oral and written communication skills and present a record of effectiveness in teaching, research, and program development. Key considerations are a commitment to undergraduate learning and a willingness to serve the College and its communities.

Applicants should submit a formal letter of application establishing their qualifications; a current vita; an official transcript; a description of teaching philosophy and experience; a statement of research interest; placement service credentials, if available; and a minimum of three letters of recommendation. Review of applications will begin the week of November 1, 1999 (unless otherwise noted), and continue until the positions are filled. All inquiries and applications should be sent to:

Chair, Search Committee for Physics Penn State Altoona Box PS 3000 Ivyside Park Altoona, PA 16601-3760

For additional information on Penn State Altoona, please visit our web page at http://www.aa.psu.edu

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

POSITIONS OPEN

FACULTY POSITION IN MEDICINAL CHEMISTRY/DRUG METABOLISM

Western University of Health Sciences College of Pharmacy invites applications for a tenure-track faculty position in medicinal chemistry. Candidates should possess a Ph.D. in medicinal chemistry with a research emphasis in drug metabolism. Knowledge of pharmacokinetics/pharmacology would be an additional asset. Western University is committed to excellence in teaching. The candidate will participate in teaching in the professional program, integrating concepts of medicinal chemistry and pharmacology. Preference will be given to those individuals with postdoctoral experience and the successful candidate will be expected to establish an extramurally funded research program. Salary and rank are negotiable and commensurate with qualifications and experience. Applicants should submit a letter of interest describing teaching and research activities/goals, a curriculum vitae, and the names and contact information of three references Review of application materials will continue until the position is filled. Complete applications should be

Ed Soltis, Ph.D., Chair, Search Committee
Western University of Health Sciences
College of Pharmacy
College Plaza, 309 East Second Street
Pomona, CA 91766-1854
Telephone: 909-469-5679
FAX: 909-469-5539
E-mail: esoltis@westernu.edu

Western University of Health Sciences is an Affirmative Action/Equal Opportunity Employer and actively seeks applications from women and minorities.

FACULTY POSITIONS DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

Penn State University College of Medicine

Applications are invited for two tenure-track positions at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR rank. We seek individuals that have a record of success (1) in research in human genetics, model genetic systems, or genomics, or (2) in using biochemical/biophysical and computational techniques to study macromolecules. Successful candidates must have a Ph.D. and/or M.D., are expected to establish or to have established (depending on rank) independent, extramurally funded research programs, and to participate in the education of medical and graduate students in the College and in the Life Sciences Consortium of Penn State. Applicants should send curriculum vitae, a one- to two-page synopsis of research plans, the names and addresses of three references, and indicate whether the application is for (1) or (2) above, to: Search Committee, Department of Biochemistry and Molecular Biology, P.O. Box 850S, The Penn State University College of Medicine, H171, Hershey, PA 17033-0850. Review begins August 16, 1999; applications accepted until positions are filled. Affirmative Action/ Equal Opportunity Employer.

FACULTY POSITIONS IN BIOLOGY

Washington and Lee University announces two tenure-track positions in the Department of Biology to be filled at the ASSISTANT PROFESSOR level: (1) genetics, employing modern molecular techniques; (2) behavior, preferably involving field research to investigate evolutionary/ecological strategies of animals. Both positions require a commitment to teaching, as well as to development of a competitive research program eligible for extramural support. Completion of the Ph.D. is required; postdoctoral research experience is desirable. Starting date for these positions is 1 July 2000. Review of completed applications will begin 1 October 1999. Applicants should submit a letter of application, curriculum vitae, statements of teaching and research interests, and have letters sent directly from at least three referees to: Dr. L. E. Hurd, Department of Biology, Washington and Lee University, Lexington, VA 24450. An Equal Opportunity Employer.

POSITIONS OPEN

BIOPHOTONICS/MICROSCOPY AT BIOLOGICAL/CHEMISTRY INTERFACES

Iowa State University invites applications for a TENURE-TRACK FACULTY POSITION centered at the boundary of cell biology and chemistry. This position includes appointments in the Departments of Zoology and Genetics and in Chemistry, with the opportunity to work within the newly constructed Roy J. Carver Laboratory for Ultra High Resolution Biological Microscopy (approximately 4,000-square foot facility). Applications are encouraged from individuals seeking to develop and apply state-of-the-art microscopy approaches to address fundamental questions in the above and related areas. This position is part of an ongoing initiative to strengthen interdisciplinary studies between the physical and life sciences, and the successful applicant will play a lead role in the future development of this interdisciplinary group. A competitive salary, excellent research facilities, and generous start-up package are available. The successful candidate will be expected to establish an internationally recognized research program and to contribute strongly to graduate and undergraduate education.

Applicants must hold a Ph.D. or equivalent and should have postdoctoral experience. Please send a curriculum vitae, a statement of research and teaching interests, and arrange for three letters of recommendation to be sent to: Marc D. Porter, Chair, Biophotonics Search Committee, Department of Chemistry, Iowa State University, Ames, IA 50011. E-mail: mporter@porterl.ameslab.gov. Deadline for applications is October 15, 1999, or until position is filled. Iowa State University is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are encouraged to apply.

MOLECULAR NEUROBIOLOGIST/BIOPHYSICIST

The Section of Neurobiology seeks to fill a FAC-ULTY POSITION at the tenure-track or tenured level with a faculty member exploring the function or development of the nervous system using transgenic and/or biophysical approaches. The rapidly expanding Section has access to state-of-the-art facilities and will provide an attractive start-up package. Applicants must have a Ph.D. or similar degree. In addition to his/her research program, the faculty member will teach alternate semesters at the graduate and undergraduate level. Applications will be considered as they arrive, but should be received no later than November 5, 1999. They should include a curriculum vitae, statement of research plans and teaching interests, representative reprints, and the names, telephone numbers, and e-mail addresses of three references, and should be sent to: Dr. Harold Zakon, Neurobiology Search Committee, Section of Neurobiology, Patterson Laboratories, University of Texas, Austin, TX 78712. The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS WHEATON COLLEGE, ILLINOIS

Wheaton College announces the following tenuretrack faculty openings for fall 2000: Biology: ASSIST-ANT PRÓFESSOR; experience in field biology or terrestrial ecology and background in vertebrate zoology preferred. Chemistry: ASSISTANT or ASSO-CIATE PROFESSOR to teach analytical, instrumental, and general chemistry in ACS-certified department. Geology: ASSISTANT PROFESSOR to teach geomorphology, environmental geology, physical geology, and hydrogeology; Ph.D. in applied field required. Mathematics/computer science: ASSIST-ANT or ASSOCIATE PROFESSOR: Ph.D. in computer science or a closely related field required. Send letter of interest and curriculum vitae to: Office of the Provost, Wheaton College, Wheaton College, IL 60187-5593. Application deadline for most positions is November 30, 1999. Wheaton College is an evangelical liberal arts college 25 miles west of Chicago. The College complies with federal and state guidelines for nondiscrimination in employment. Women and minority candidates are encouraged to apply.

POSITIONS OPEN

PHYSIOLOGY FACULTY POSITION

The Department of Biological Sciences at Western Michigan University seeks applications for a tenure-track ASSISTANT PROFESSOR or ASSOCIATE PROFESSOR position in physiology, beginning fall 2000, pending budgetary approval. A Ph.D. degree and postdoctoral training are required. The development of an externally funded research program and contribution to the Department's Master's and Doctoral programs is expected.

Preference will be given to candidates trained to apply cellular and molecular techniques to address the mechanistic bases of fundamental life processes in animal cells, tissues, or systems. The ideal candidate would have research interests that complement existing strengths in vascular physiology, neurobiology and development, immune cell biology, and/or organismal biology (see website: http://www.wmich.edu/bios/). Teaching responsibilities include an undergraduate course in physiology and an upper-level course in the candidate's area of expertise.

Send letter of application, curriculum vitae, statement of research and teaching plans, transcripts, and have three letters of recommendation sent to: Leonard Beuving, Ph.D., Chairman, Department of Biological Sciences, Western Michigan Unviersity, Kalamazoo, MI 49008. E-mail: beuving@wmich. edu. Review of applications will begin October 1, 1999, and applications will be accepted until the position is filled. Western Michigan Univrsity is a Carnegie classification Doctoral I institution and an Equal Opportunity Employer with an Affirmative Action program and encourages applications from underrepresented groups.

FACULTY POSITIONS DEPARTMENT OF NEUROSCIENCE THE JOHNS HOPKINS UNIVERSITY School of Medicine

Applications are invited for full-time, TENURE-TRACK faculty positions at both junior and senior levels. Preference will be given to applicants with broad interests in cellular, molecular, and developmental neuroscience, including cellular electrophysiology. Applicants should have a Ph.D. or M.D. and appropriate postdoctoral training. Faculty members are expected to establish active independent research programs and participate in teaching graduate and medical students. Evaluations will begin December 1, 1999.

Please send curriculum vitae, a brief description of current and future research interests, and arrange to have three letters of recommendation sent to:

Solomon H. Snyder, M.D. Search Committee Department of Neuroscience The Johns Hopkins University School of Medicine 725 North Wolfe Street Baltimore, MD 21205

An Equal Employment Opportunity/Affirmative Action Employer.

The Department of Biochemistry at Baylor College of Medicine (BCM) invites applications for a TEN-URE-TRACK FACULTY POSITION in bioinformatics and computational biology at any rank. This heavily research-oriented department is seeking outstanding scientists who are committed to establishing excellent research activities in an expanding structural and computational biophysics group. The appointed faculty member would have an affiliation with the W. M. Keck Center for Computational Biology, a training-and-research infrastructure shared jointly with neighboring institutions in the greater Houston area. Applicants should send a curriculum vitae, a research plan, and three letters of recommendation to: Professor Wah Chiu, c/o Ms. Mary Jane Perez, Faculty Search Committee, Department of Biochemistry, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030-3498 USA. Telephone: 713-798-6625; e-mail: mperez@bcm.tmc.edu; website: http://www.bcm.tmc.edu/biochem. Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.



Global Leader in Lung, Allergic and Immune Diseases

POSTDOCTORAL POSITION

National Jewish Medical and Research Center Denver, Colorado, USA

A funded position(s) is available immediately to 1) develop new transgenic models for the study of B cell maturation in the mouse, or 2) study transcriptional regulation by Pax-5 (BSAP) and Ets proteins in B cells (Genes & Develop. 10:2198, 1996; Mol. Cell. Biol. 19:2231, 1999). Qualified applicants should possess a Ph.D., M.D., or M.D./Ph.D. degree, be a U.S. citizen, and have experience in cellular immunology, molecular biology, biochemistry, or a related discipline. Send curriculum vitae and names of three references to:

James Hagman, Ph.D.
Division of Basic Immunology
National Jewish Medical and
Research Center
1400 Jackson St., K516B
Denver, Colorado 80206
Fax: (303)398-1396
hagmanj@njc.org

The National Jewish Medical and Research Center is an equal opportunity employer.



The Eppley Institute for Research In Cancer and Allied Diseases University of Nebraska Medical Center

Seeking candidates for several tenure-leading positions at the ASSISTANT / ASSOCIATE / PROFESSOR RANK.

Basic Cancer Research

1. Outstanding candidates with a doctorate working in any area of molecular, cellular, or structural biology (e.g., signal transduction, apoptosis, gene expression, chromatin structure/nuclear organization, angiogenesis, metastasis) are encouraged to apply.

Tumor or Transplant Immunologist

2. In addition to directing an independent research program, the successful applicant will be able to interact with clinical faculty that are nationally recognized for the use of transplantation to treat malignant, inherited, and autoimmune diseases.

Translational Cancer Research

3. Outstanding candidates (M.D. or Ph.D.) working in Translational Cancer research are encouraged to apply. Applicants should have a strong laboratory research program. We are particularly interested in recruiting individuals with research interests in breast cancer, prostate cancer, GI cancer, drug discovery, and tumor immunology/vaccine development.

Genetic Epidemiology of Cancer

4. Outstanding candidates in the general area of genetic epidemiology of cancer holding a doctorate and possessing demonstrated expertise in epidemiology, biostatistics, or a related quantitative field and/or directing a laboratory-based research program focused on genetic modification of cancer risk in humans. The successful applicant will be expected to develop a nationally recognized and extramurally funded research program.

New faculty will receive competitive salaries and start-up funds. The Eppley Institute is an academic unit of the University of Nebraska Medical Center and an integral component in the NCI-designated UNMC/Eppley Cancer Center. In addition to directing an independent research program, successful applicants are expected to interact with other faculty, and be involved in the training of graduate students and postdoctoral fellows through Eppley Institute's NCI-supported Cancer Research Training Program.

Applicants should send their resume, three reference letters, and a statement of their research goals to: Dr. Kenneth Cowan, Director, Eppley Institute, University of Nebraska Medical Center, 986805 Nebraska Medical Center, Omaha, NE 68198-6805. Additional information about the Eppley Institute is available at www.unmc.edu/Eppley/eppley.html.



The Keck Graduate Institute of Applied Life Sciences is seeking highly creative and motivated postdoctoral research fellows to participate in the following projects with the founding faculty:

James M. Cregg: Peroxisome biogenesis in yeast. Position requires interest and/or expertise in yeast molecular genetics and cellular biology.

T. Gregory Dewey: Computational biology. Development of methods that introduce structural information into alignment and structure prediction algorithms. Proficiency in C/C++ and Perl required.

David J. Galas: Nucleic Acid Biophysical Chemistry Hybridization on solid supports and in solution; a wide range of applications combining theory and experiment.

Chen-Chen Kan: Structural genomics. Selection and preparation of protein targets from genomics databases for novel structure determination. Applicants must be competent in molecular biology and protein chemistry. Knowledge of relevant computer programs and databases desirable.

David L. Wild: Computational biology/bioinformatics. Development of Bayesian networks for protein fold recognition and methods to extend the functional analysis of gene and protein expression data by the integration of protein structural and pathway information. Proficiency in C/C++ and Perl required.

KGI is located 35 miles east of Los Angeles, at the foot of the San Gabriel Mountains. Its campus is contiguous with those of the other Claremont Colleges. A rich intellectual and cultural environment is provided by the colleges and the surrounding institutions in southern California. For further information see: http://www.kgi.edu. Applicants should send a letter of application, curriculum vitae, names and contact details of three references to: Lora Feaster, Assistant to Dr. David J. Galas, Chief Academic Officer, Keck Graduate Institute of Applied Life Sciences, 1263 N. Dartmouth Ave, Claremont, CA 91711, Fax: 909/607-8086, e-mail: Lora_Feaster@kgi.edu

POSTDOCTORAL POSITIONS AVAILABLE



National Institute on Deafness and Other Communication Disorders Laboratory of Molecular Genetics

The Laboratory of Molecular Genetics is housed in a spacious building with well equipped laboratories and many collegial scientists. Candidates (US citizens or non US citizens) should have a PhD and/or MD with five or fewer years of postdoctoral experience.

Postdoctoral positions are available to conduct genetic linkage analyses on families with hearing impairment, as well as positional cloning and functional analyses of genes crucial for development and differentiation of the auditory system. Recent papers from the LMG include: AM J Hum Genet (1998) 62: 904-915; Science (1998) 280:1444-1447; Science (1998) 280:1447-1451; Nature Genetics (1998) 18:215-217; New England Journal of Medicine (1998) 339: 1500-1505. Please send your curriculum vitae, including a bibliography, reprints, a description of your research interests and the names and addresses of three references to: Thomas Friedman, PhD, Chief, Laboratory of Molecular Genetics. National Institute on Deafness and Other Communication Disorders, National Institutes of Health, 5 Research Court, Rockville, Maryland 20850 (email: friedman@nidcd.nih.gov).

NIH is an Equal Opportunity Employer

POSITIONS OPEN

FACULTY POSITION VIROLOGY

The Department of Microbiology of The University of Texas Health Science Center at San Antonio invites applications for a tenure-track faculty position at the ASSISTANT, ASSOCIATE, or FULL PRO-FESSOR level. Candidates with an accomplished record of research and experience in the area of molecular mechanisms of viral pathogenesis with special interests in subhuman or human viruses are encouraged to apply. Medically relevant research areas could include studies of viruses associated with sexually transmitted disease, autoimmune or central nervous system diseases, and cancer. Collaborative projects with adjunct faculty at the Southwest Foundation for Biomedical Research, one of the largest subhuman primate facilities in the United States, are possible. The successful candidate (Ph.D. and/or M.D. degrees) is expected to establish or maintain a strong innovative research program that attracts extramural funding, train Ph.D. candidates, and participate in departmental teaching activities. This is an exceptional opportunity to join a strong department with a national reputation in microbial pathogenesis in a major health science center that is committed to excellence in research and teaching, and is located in a desirable academic-geographic setting. The Health Science Center is located at the edge of the beautiful Texas Hill Country and comprises five schools: The Dental School, the Graduate School of Biomedical Sciences, the Medical School, the School of Allied Health Sciences, and the School of Nursing. The greater San Antonio area boasts 11 other institutions of higher learning. Applicants should mail curriculum vitae, a statement of current and future research goals, and arrange to send three letters of reference by October 15, 1999, to: Chair, Virology Search Committee, Department of Microbiology, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78229-3900. Additional information may be found at website: http://www.uthscsa.edu.

The UTHSCŜA is an Equal Employment Opportunity/ Affirmative Action Employer.

MOLECULAR TOXICOLOGIST THE INSTITUTE OF ENVIRONMENTAL AND HUMAN HEALTH

An opening is available for a tenure-track position at ASSISTANT/ASSOCIATE PROFESSOR rank at The Institute of Environmental and Human Health at Texas Tech University/Texas Tech University Health Sciences Center. The successful candidates must have either a Ph.D. or M.D. degree and a minimum of four years of postdoctoral experience including demonstrable involvement in large multidisciplinary research projects. The person employed for this position will be expected to develop molecular biomarkers for susceptibility to environmental disease in humans and wildlife, particularly those that allow for the use of wildlife sentinels to predict human disease. This person must be able to use state-of-the-art molecular biological tools to assess phenotypic changes in response to environmental agents and genotypic alterations that increase susceptibility to environmental disease. This position requires an individual with a broad background in environmental disease, significant experience in toxic agents, cancer, and bioterrorism. This individual will also be responsible for developing a federally funded, independent research program in their field of expertise. The candidate must possess strong written and verbal communication skills, and the ability to function in and provide leadership to multidisciplinary projects. Applications will be accepted until the position is filled.

Dr. Louis A. Chiodo
The Institute of Environmental and
Human Health
Texas Tech University
Box 41163
Lubbock, TX 79409-1163

Send letter of interest and curriculum vitae to:

Texas Tech University is an Affirmative Action/Equal Employment Opportunity Employer.

POSITIONS OPEN

FACULTY POSITION IN ASTROBIOLOGY UNIVERSITY OF COLORADO AT BOULDER

The University of Colorado Department of Geological Sciences and Center for Astrobiology has an opening for a tenure-track faculty position at the AS-SISTANT PROFESSOR level, to begin in the fall semester 2000. Possible research interests include the paleontological record of early life on Earth, study of modern environments relevant to the origin or early history of life on Earth, or geomicrobiology including life in extreme environments. The successful candidate will have a strong interest in the applications of their research to the broader field of astrobiology, will complement the teaching and research interests of the department, and will teach courses at all levels. The University of Colorado is a member of the NASA Astrobiology Institute, and the candidate will play a role in developing the interdisciplinary program in astrobiology. More information on our programs can be found on our websites, for the department at website: http://www.colorado.edu/GeolSci/ and for astrobiology at website: http://argyre.colorado. edu/life/. Applications deadline: 1 November 1999

Candidates should submit a one- to two-page description of their research and teaching interests, a curriculum vitae, and the names of three references to: Prof. Bruce Jakosky, Astrobiology Search, Department of Geological Sciences, Campus Box 399, University of Colorado, Boulder, CO 80309. The University of Colorado at Boulder is committed to diversity and equality in education and employment.

FACULTY POSITION PATHOGENESIS OF BACTERIAL INFECTIONS

The Department of Microbiology and Immunology at the University of Arkansas for Medical Sciences is seeking to fill two 12-month, tenure-track, statesupported faculty positions at either the ASSIS-TANT or ASSOCIATE PROFESSOR level. Research interests should emphasize molecular approaches to the study of the pathogenesis and/or cell biology of bacterial organisms. The applicant must have a Ph.D., M.D., D.V.M., or equivalent with postdoctoral experience. The individual will be expected to develop an independent research program and participate in teaching activities within the department's graduate and medical student programs. Generous start-up funds and laboratory space will be provided. The department is fully equipped with necessary in-strumentation, including a DNA sequencing core facility and flow cytometry/sorting facility. Address inquiries, along with curriculum vitae, statement of present and future research interests, and the names of three references to: Roger G. Rank, Ph.D., Department of Microbiology and Immunology, University of Arkansas for Medical Sciences, 4301 West Markham, Little Rock, AK 72205. The University of Arkansas for Medical Sciences is an Equal Opportunity Employer.

FACULTY POSITION NEW YORK UNIVERSITY SCHOOL OF MEDICINE Department of Microbiology

The Department of Microbiology is seeking candidates at the ASSISTANT or ASSOCIATE PROFESSOR level in the fields of prokaryotic molecular biology and/or microbial pathogenesis. Our department spans a broad range of research areas from virology to cell biology, and is located in the Medical Sciences Building at New York University School of Medicine. Applications should include a curriculum vitae, a statement of research interests, and names of three references. Send applications to: Microbiology Department Search Committee, Attn: Richard P. Novick, M.D., Skirball Institute, Floor 2, New York University School of Medicine, 540 First Avenue, New York, NY 10016. Telephone: 212-263-6290.

New York University School of Medicine is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

TENURE-TRACK FACULTY POSITIONS NEUROBIOLOGY

University of Maryland School of Medicine

The Department of Anatomy and Neurobiology is recruiting new faculty in neurobiology. Appointments can be made at ASSISTANT, ASSOCIATE, or FULL PROFESSOR ranks.

Of particular interest are candidates using molecular approaches to understand development/plasticity or organization/function of mammalian central nervous system circuits. We are seeking candidates whose interests complement our strengths in developmental, cellular, and molecular neurobiology, and who can establish collaborative research programs.

Our facilities include state-of-the-art core laboratories in molecular neurobiology, imaging, neurophysiology, and neuroanatomy. We offer a collaborative environment with competitive salary and start-up packages. The department has NIH Program Project and Training Grants. Departmental faculty are members of the new interdisciplinary Program in Neuroscience (website: http://neuroscience.umaryland.edu). Faculty participate for three to five weeks in a team-taught medical school course.

Successful candidates must have a Ph.D. or equivalent, evidence of productivity, and the potential to establish an independent research program capable of attracting extramural funding. For best consideration, applications should be received before October 1, 1999. Candidates should submit a detailed curriculum vitae, a statement of research interests and goals, and the names and addresses of three to five references to:

Dr. Matthew Ennis and Dr. Frank Margolis
Faculty Search Committee
Department of Anatomy and Neurobiology
University of Maryland School of Medicine
685 West Baltimore Street
Baltimore, MD 21201
Website: http://neurobiology.umaryland.edu

We are eager to diversify our faculty. Women and minorities are encouraged to apply. The University of Maryland is an Affirmative Action/Equal Opportunity Employer/ADA Employer.

TENURE-TRACK POSITION NATIONAL INSTITUTE OF ALLERGY AND INFECTIOUS DISEASES

A tenure-track position is available in the Laboratory of Allergic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, for a M.D., M.D.-Ph.D., or Ph.D. scientist to develop an independent research program related to the exploration of the mechanisms of allergic inflammation and their treatment. Experience in the application of the techniques of cellular and molecular biology and/or clinical research is desirable. Resources include salary support for the tenure-track position, a support position, and one to two Fellows. Space and supply budget are committed. Applicants must be U.S. citizens or permanent residents. A curriculum vitae, bibliography, three letters of reference, a detailed statement of research interests, and selected publications must be submitted by October 31, 1999, to: Dr. Thomas Fleisher, Chairperson, c/o Lakeasha Mingo, NIH/NIAID/LAD, Building 10, Room 4A26, 10 Center Drive, Bethesda, MD 20892-

The NIH is an Equal Opportunity Employer.

RESEARCH ASSISTANT PROFESSOR

The University of Illinois, Section of Digestive and Liver Diseases invites applications for a non-tenure research faculty position. The applicant must have a Ph.D. with extensive experience in the study of enteric bacterial pathogens and host cell signaling pathways as demonstrated by peer-reviewed publications. Submit curriculum vitae and the names of three references to: Sharon Galk, Department of Medicine, University of Illinois at Chicago, 840 South Wood Street (M/C 787), Chicago, IL 60612. The University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.

THE J. DAVID GLADSTONE INSTITUTES

Staff Research Scientist Research Associate

Positions available to build our growing Genomics Core Laboratory in a dynamic, UCSF-affiliated academic research environment. Responsibilities will include operation of a full Affymetrix GeneChip facility, and bioinformatics analysis of resulting data.

Staff Research Scientist: Ph.D. or M.A. with over 2 years experience in genomics, or bioinformatics.

Research Associate: B.A. or M.A. with at least 1 year of experience with robotics or genomics. Salary commensurate with experience and competitive with leading genomics/bioinformatics groups.

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

The J. David Gladstone Institutes P.O. Box 419100, San Francisco, CA 94141-9100

Email: hr@gladstone.ucsf.edu Web: http://gladstone.ucsf.edu

The Gladstone Institutes and UCSF are Equal Opportunity/Affirmative Action Employers. Women and minorities are encouraged to apply.



Gillette Research Institute, a division of The Gillette Company, seeks creative and highly motivated Research Scientists who will be involved in research leading to the development of new personal care products.

Pharmaceutical Science/Medicinal Chemistry

Candidates must have a Ph.D. in related discipline and a minimum of 2 years' postdoctoral experience in topical formulations, skin penetration, and metabolism. Industrial experience preferred.

Cell Biology

Candidates must have familiarity in confocal microscopy, immuno-staining, and organ culture. A minimum of 2 years' postdoctoral experience is required. Knowledge of quantitative image analysis highly desirable.

• Molecular Biology
Candidates must have experience in mammalian systems. Knowledge of biochemical pharmacology is highly desirable. A minimum of 2 years' postdoctoral experience is required.

• Biophysics, Biomedical Engineering

Candidates must possess a Ph.D. with a minimum of 2 years' postdoctoral experience.

These positions will be located in suburban Boston at a newly formed research facility in Needham, MA. The Gillette Company offers a competitive total compensation package. Qualified candidates should forward a resume to:

Gillette Research Institute
Human Resources Department
401 Professional Drive,
Gaithersburg, MD 20879
301-590-1509;
Fax: 301-590-1575
E-mail: nancy_allen@gillette.com
An Equal Opportunity



POSTDOCTORAL FELLOW POSITIONS IN MOLECULAR AND CELLULAR BIOLOGY Laboratory of Biological Chemistry National Institute on Aging National Institutes of Health

Several Postdoctoral Fellow positions are available within the Laboratory of Biological Chemistry, at the National Institute on Aging, for highly motivated individuals interested in joining an expanding research program. Specific project areas include:

- Physiological role of the amyloid precursor protein and presenilins; Their pathological role in Alzheimer's Disease; Signal transduction pathways in apoptotic neuronal cell death.
 John W. Kusiak, Ph.D.; <u>kusiak@vax.grc.nia.nih.gov</u>
- Function and regulation of stress signaling pathways in mammalian cells. Emphasis on roles for novel protein and lipid phosphatases.
 Yusen Liu, Ph.D.; <u>liuy@grc.nia.nih.gov</u>
- Gene expression in ovarian cancer using Serial Analysis of Gene Expression (SAGE) and cDNA arrays. Identification of novel genes involved in ovarian tumorigenesis. Regulation and targets of the TCF/beta-catenin pathway in human cancer. Pat J. Morin, Ph.D.; morinp@grc.nia.nih.gov
- Function of the von Hippel-Lindau tumor suppressor gene. Regulation of cell cycle progression during the mammalian stress response and influence of cell cycle alterations on cell survival. Emphasis on posttranscriptional events governing expression of cyclins, cdks and cdk inhibitors.
 Myriam Gorospe, Ph.D.; myriam-gorospe@nih.gov
- Role of tyrosine kinases and phosphatases in controlling T cell fate (proliferation, anergy or apoptosis) in response to T cell receptor engagement. Use of novel techniques to identify true in vivo kinase/substrate pairs. Involvement of TCRassociated signaling molecules in HIV infection. Ronald Wange, Ph.D.; wanger@grc.nia.nih.gov
- Cellular responses to genotoxic/oxidative stress and perturbations of the endoplasmic reticulum: Use of SAGE and cDNA array analysis to investigate critical signaling components, stress-regulated genes, and other factors influencing cell survival.
 Nikki J Holbrook, Ph.D.; holbroon@grc.nia.nih.gov

Candidates must have a Ph.D. or M.D. degree, must have less than 5 years of postdoc experience, strong background in molecular biology, cell biology, and/or biochemistry, and demonstrated record of productivity. Applicants should direct correspondence about specific project areas to the specified P.I. via email or surface mail at the following address:

Laboratory of Biological Chemistry, Box 12, Gerontology Research Center, 5600 Nathan Shock Drive, NIA, National Institutes of Health, Baltimore, MD 21224-6825.

NIH is an Equal Opportunity Employer

Applicants for Assistant Professor positions should provide a curriculum vitae, and a brief statement of research plans (approximately three pages), to: Professor Richard Chamberlin, Chair, Department of Chemistry, The University of California, Irvine, CA 92697-2025. Applicants should also arrange to have three letters of recommendation submitted on their behalf. Candidates for the senior faculty openings should submit their curriculum vitae including a short description of their present research activities, and a list of potential references to the address above. Applications must be received by November 1, 1999. Salary commensurate with experience. The University of California is an Equal Opportunity Employer committed to excellence through diversity.

TENURE-TRACK FACULTY POSITION

The Center for Extracellular Matrix Biology at the Institute of Biosciences and Technology, Texas A&M University System Health Science Center, Houston, Texas invites applications for a full-time tenure-track faculty position at the level of ASSISTANT or ASSOCIATE PROFESSOR. The successful candidate will be expected to establish an independent extramurally funded research program, participate in graduate training, and engage in collaborative research within the Health Science Center and the Texas Medical Center. Candidates studying any aspect of extracellular matrix biology will be considered although some preference will be given to Cell Biologists using molecular approaches.

Applicants should submit curriculum vitae, brief statement of research interests, and the names and addresses of three individuals who may be contacted for letters of reference to:

Magnus Höök, Ph.D.
Director, Center for Extracellular Matrix Biology
Institute of Biosciences and Technology
2121 West Holcombe Boulevard
Houston, TX 77030
Website: http://www-ibt.tamu.edu

Texas A&M University System Health Science Center is an Affirmative Action/Equal Opportunity Employer.

FIELD ENTOMOLOGIST. Tenure-track AS-SISTANT PROFESSOR position available August 2000. Ph.D. in zoology, entomology, or related biological discipline; research interests should be in some area of field entomology (applied or basic insect ecology and/or conservation). Must be able to teach courses for majors (entomology, general zoology) and non-majors (humans and the environment, field ecology, and natural history) and is expected to establish an active, externally funded research program involving graduate and/or undergraduate students. Successful applicant must demonstrate effective communication and teaching by presenting a research seminar and giving a teaching demonstration during an on-campus interview. Mail one copy of all univer-sity transcripts, statements of teaching and research philosophies, curriculum vitae, and three letters of recommendation, all postmarked by November 15, 1999, to: Dr. Maureen Knabb, Department of Biology, West Chester University, West Chester, PA 19383. For more details, Telephone: 610-436-2985; e-mail: mknabb@wcupa.edu. Affirmative Action/Equal Opportunity Employer. Women and minorities are strongly encouraged to apply

Washington WASHINGTON UNIVERSITY IN ST. LOUIS

SENIOR SCIENTIST POSITION REPRODUCTIVE CELL BIOLOGIST

The Department of Obstetrics and Gynecology and the Department of Cell Biology and Physiology are jointly recruiting a Senior Scientist to expand basic research in reproductive and developmental biology in the scientifically rich envi-ronment of the Washington University School of Medicine. Successful candidates will assume a tenure-track position as ASSOCIATE PRO-FESSOR or PROFESSOR with a dual appointment in both departments. A resource package includes junior faculty recruitment, abundant laboratory space, and financial underwriting commensurate to the position. New programs will complement the ongoing research in cancer genetics, placental biology, signal transduction systems, and cytoskeletal function. Successful candidates will be expected to maintain externally funded programs and to contribute to graduate education.

Send curriculum vitae, a one-page summary of research accomplishments and research plans, and three letters of support to: Dr. Nelson and Dr. Stahl, co-Chairs, Reproductive Cell Biologist Search Committee: D. Michael Nelson, M.D., Ph.D., Vice-Chairman, Obstetrics and Gynecology, Washington University School of Medicine, 4911 Barnes-Jewish Hospital Plaza, St. Louis, MO 63110-1094 USA. Or: Philip D. Stahl, Ph.D., Head, Department of Cell Biology and Physiology, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, MO 63110 USA.

WUSOM is an Equal Opportunity/Affirmative Action Employer.

VERTEBRATE DEVELOPMENTAL BIOL-OGIST. Tenure-track position. ASSISTANT PRO-FESSOR beginning August 2000. Ph.D. in vertebrate biology required. Preference given to applicants with university teaching or postdoctoral experience, record of publication and external funding, and an active research program in animal developmental biology emphasizing molecular or physiological approaches. Teaching responsibilities will include embryology/developmental biology and may include general zoology, comparative anatomy, and introductory, non-majors courses. The successful candidates will be expected to develop a research program involving undergradute and Master's-level students. Demonstrable commitment to the teacher/scholar model, public and University service, and a culturally diverse learning environmental required

PLANT BIOLOGIST. Tenure-track position. ASSISTANT PROFESSOR beginning August 2000. Ph.D. in plant biology required. Preference given to those with university teaching, postdoctoral experience, record of publication, and external funding. Responsibilities include teaching plant biology and plant physiology. In addition, the successful candidate will develop an active research program in modern experimental plant biology involving undergraduates and Master's-level students. Teaching responsibilities may also include plant anatomy and introductory and service courses offered through the Department of Biology. Demonstrable commitment to the teacher/scholar model, public and University service, and a culturally diverse learning environment required.

Applicants should send letter of application, curriculum vitae, undergraduate and graduate transcripts, three reference letters, and statements of teaching philosophy and research interests to: Dr. C. T. Train, Department of Biology, Southeast Missouri State University, Cape Girardeau, MO 63701 by October 29, 1999. An Equal Opportunity/Minorities/Females/Affirmative Action Employer.

POSITIONS OPEN

IMMUNOBIOLOGIST LAFAYETTE COLLEGE

Tenure-track ASSISTANT PROFESSOR to begin in August 2000. Candidates must have a Ph.D. degree plus postdoctoral training with demonstrated teaching and research experience in immunobiology. Candidates with expertise in cellular/molecular immunology are especially encouraged to apply. We seek a broadly trained Biologist committed to excellence in teaching and research within the context of a highly selective, undergraduate institution with liberal arts and engineering. Teaching load 2/2 plus honors and independent research students. Teaching duties include a course in immunology with laboratory, a course in a related field, an advanced course in the applicant's research area, and teaching in the introductory biology course sequence with occasional participation in the College-Wide Common Course of Study. The successful applicant will be expected to maintain a vigorous research program involving undergraduates. Expanded position description available at website: http://www.lafayette.edu/biology/ biohome.html. Competitive salary, benefits, and start-up funds. Applicants should submit curriculum vitae, undergraduate and graduate transcripts, a twopage description of teaching philosophy and research plans, and arrange for three letters of recommendation to be sent by 12 November 1999 to: Dr. Shvamal K. Majumdar, Head, Department of Biology, Lafayette College, Easton, PA 18042-1778.

Lafayette College is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

ASSISTANT PROFESSOR

The Department of Anatomy, Cell, and Neurobiology at the Marshall University School of Medicine is extending the search for a tenure-track position at the Assistant Professor level. This position provides a unique opportunity in a developing program of excellence.

The successful candidate will be provided a research laboratory to develop and/or maintain an imaginative, externally funded research program, and will participate in teaching medical and graduate students. A Ph.D. and/or M.D. degree, postdoctoral experience, and a record of publication in quality journals are required. Individuals with an interest and background in anatomical sciences are especially invited to apply.

Candidates should send an introductory letter addressing their teaching experience and philosophy, research accomplishments and future research plans, a curriculum vitae, and arrange for at least three letters of reference to: William B. Rhoten, Ph.D., Department of Anatomy, Cell, and Neurobiology, Marshall University School of Medicine, 1542 Spring Valley Drive, Huntington, WV 25704-9388. Screening of applications will begin October 1, 1999.

Marshall University is an Equal Employment Opportunity Commission/ADA Employer and especially encourages applications from women and members of minority groups.

The University of Florida seeks applicants for a .45 FTE tenure-track position at the PROFESSOR level in the Department of Medicine, Division of Pulmonary. Candidate should have a Ph.D. degree with a minimum of 15 years of postdoctoral experience with a record of extramural support and research productivity. The successful candidate will have a distinguished basic research accomplishment in lung endothelial cell biology. Special emphasis will be given to expertise involving mechanistic studies of oxidative lung injury and thioredoxinmediated redox regulation of nitric oxide synthase activity as well as angiotensin-IV receptor-mediated pharmacological and physiologic responses in the lung. Salary and benefits commensurate with experience. Interested applicants should submit curriculum vitae and three letters of recommendation to: Edward R. Block, M.D., Professor, Department of Medicine, Division of Pulmonary, Research Service (151), Malcom Randall VA Medical Center, 1601 S.W. Archer Road, Gainesville, FL 32608-1197. Recruiting deadline: September 13, 1999. Anticipated start date: October 5, 1999. An Equal Opportunity /Affinnative Action Employer.

FACULTY POSITION MOLECULAR BIOLOGY OF SKIN

CARDINAL BERNARDIN CANCER CENTER LOYOLA UNIVERSITY MEDICAL CENTER

The Skin Cancer Research Program has an immediate opportunity for an Assistant Professor Faculty Member in the Tenure Track. Areas of interest include: The role of HIIV-8 in Kaposi's Sarcoma (New England Journal of Medicine, 336: 163, 1997); the genotype and phenotype of T-cells that cause psoriasis (Journal of Clinical Investigation, 98: 1878, 1996); the regulation of apoptosis and signal transduction in skin cancer (Journal of Biological Chemistry, 273: 29995, 1998). Human skin: SCID mouse chimeric animal models are in use by several investigators.

Faculty participating in this program include: Drs. Kimberly Foreman, Mitchell Denning, Caroline LePoole, June Robinson, and Brian Nickoloff. You will be provided with a laboratory and office facilities within the new 125,000 sq.ft. Cancer Center building, and a competitive compensation and start-up funds package. Opportunities for teaching at the graduate level are available within four graduate programs at the Medical Center.

Interested applicants with a M.D. and/or Ph.D. should submit a Curriculum Vitae, three professional references, and a description of current and future research interests to the address below by October 31, 1999. An equal opportunity employer/educator.

LOYOLA UNIVERSITY CHICAGO



Brian J. Nickoloff, M.D., Ph.D. Program Director Skin Cancer Research Program Cardinal Bernardin Cancer Center Loyola University Medical Center 2160 South First Avenue Maywood, IL 60153-5385 bnickol@luc.edu

ANNOUNCEMENTS

National Institute of Mental Health, NIH

Center for Complex Systems and Brain Sciences at the Charles E. Schmidt College of Science, Florida Atlantic University

Dynamical Neuroscience VII Integration Across Multiple Imaging Modalities

Immediately Prior to SFN Annual Meeting

Thursday, October 21 8 a.m.-6 p.m.

Friday, October 22 8 a.m.-10 p.m.

Marriott Delray Beach Hotel Delray Beach, Florida



Dynamical brain imaging has been a fundamental goal since the earliest days of neuroscience. Recent technological innovations are making that objective a reality. This symposium will survey the latest brain imaging techniques and address the issue of how data on several different space and time scales may be combined in order to obtain a deeper understanding of the brain in health and disease. The goal is that these methods may inform brain theory and experimentation.

Invited speakers include:

R. Buckner, M. Fabiani, A. Dale, J.D. Cohen, L.B. Cohen, W.J. Freeman, K.J. Friston, G. Gratton, R. Hari, N. Logothetis, T. Paus, C. Price and T. Sejnowski.

For further information, registration and other logistics, contact M. Burdetsky, Capital Meeting Planning, Inc. Phone: 703-207-1703, Fax: 703-207-1704, E-mail: meetings@cmpinc.net

http://www.nimh.nih.gov/diva/sn99/dynamics.htm



PLANT MOLECULAR BIOLOGIST CAREER OPPORTUNITY

The leading turfgrass company, The Scotts Company, has an opportunity for a Plant Molecular Biologist to help build a world-class turfgrass and ornamental genetic engineering program. The individual will participate in program planning, technical strategies, prioritization and establishment of collaborations in addition to plant molecular biology activities. Molecular biology activities include gene synthesis, design and construction of plasmids, sequencing, DNA preps for transformation, documentation of transformants and monitoring of gene expression and gene stability.

We are seeking an individual with post-doctoral experience. Plant physiology training is desirable. This person must be able to function as part of an integrated team—including cell biologist, breeder and a pathologist. Must also be effective in collaborations with off-site scientists.

The Scotts Company offers a very competitive compensation and benefits package that includes medical, dental, life insurance and 401(k) program with company match. Interested candidates should submit a resume to: R&D Human Resources, The Scotts Company, 14111 Scottslawn Road, Marysville, OH 43041 or fax to 937/644-7422.

Scotts is an equal opportunity employer committed to a culturally diverse workforce.



Mayo Clinic Postdoctoral Position

A postdoctoral research position is open immediately in the Division of Experimental Pathology to study interactions of tumor suppressors with cell cycle regulatory proteins and the mitotic spindle apparatus. Candidates should have a PhD in cell biology or related field. Experience with confocal microscopy is required; protein chemistry and molecular biology desired. A highly competitive salary and benefits package is available to the motivated candidate. Send a full curriculum vitae with names and addresses of three references to:

Wilma L. Lingle, PhD
Division of Experimental Pathology
Guggenheim 10
Mayo Clinic
Rochester, MN 55905
e-mail: lingle@mayo.edu

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

POSITIONS OPEN

THE UNIVERSITY OF CHICAGO DEPARTMENT OF NEUROBIOLOGY, PHARMACOLOGY, AND PHYSIOLOGY

The University is making a significant commitment to the development of outstanding programs in cellular and molecular neurobiology under the direction of Sangram S. Sisodia. The Neurobiology Search Committee is inviting applications for tenure-track positions in neurobiology at the ASSISTANT and ASSOCIATE PROFESSOR levels. The successful candidates will join a multidisciplinary department composed of 22 primary and nine secondary faculty members whose research interests cover the areas of neurobiology of disease, developmental neurobiology, neuropharmacology, membrane receptors, signal transduction and second messenger mechanisms, membrane transport, structure and function of ion channels, vestibular and systems physiology, cytoskeleton, secretory pathways, and cell growth regulation. Although applications in all areas of neurobiology are welcomed, we are particularly interested in candidates working in developmental neurobiology; neuronal vesicular trafficking; molecular determinants of neuronal plasticity; neuron-glia/neuron-muscle interactions; trophic/cytokine signaling mechanisms; and transgenic/knockout models of neurodegeneration and neurodegenerative diseases. The successful candidate will be required to teach in appropriate undergraduate, graduate, and medical school courses. Applicants should provide a brief statement of research interests and plans, curriculum vitae and bibliography, and the names of three individuals who are willing to write letters of recommendation to:

Dr. Sangram Sisodia
Neurobiology Search Committee
The University of Chicago
Department of Neurobiology, Pharmacology,
and Physiology
947 East 58th Street
Chicago, IL 60637

From the time of its original charter, the principle of the University of Chicago has been to appoint scholars without regard to race, color, religion, sex, or national origin.

CELL/MOLECULAR BIOLOGIST UNIVERSITY OF THE PACIFIC SCHOOL OF PHARMACY

Tenure-track ASSISTANT PROFESSOR position starting March 2000. Ph.D. is required with training/experience in cell/molecular biology using cell culture techniques. Teaching will include cellular aspects of human physiology, immunology, and pathophysiology in courses for pharmacy students and area of specialty for graduate (M.S./Ph.D.) students. Strong commitment to both teaching and research expected. Send statement of teaching and research interests, curriculum vitae, and three letters of reference to: Jim Blankenship, Chair, Department of Physiology/Pharmacology, School of Pharmacy, University of the Pacific, Stockton, CA 95211. Visit us at website: http://www.uop.edu/pharmacy/search/. Review will begin October 15, 1999. To help meet the needs of an increasingly diverse student body, we strongly encourage women and minority candidates to apply.

California Institute of Technology invites applications for a tenure-track position as ASSISTANT PROFESSOR of chemical physics/physical chemistry, including multidisciplinary areas with experimental and/or theoretical emphasis. The initial appointment is four years. Outstanding candidates who have completed their Ph.D. and have a strong commitment to research and teaching excellence are encouraged to apply. Submit by November 15, 1999, curriculum vitae, publication list, a concise description of proposed research, and three letters of recommendation to: Professor Ahmed Zewail, Chair, Faculty Search Committee, Arthur Amos Noyes Laboratory of Chemical Physics, 127-72, California Institute of Technology, Pasadena, CA 91125. The California Institute of Technology is an Equal Opportunity/ Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

POSITIONS OPEN

CORNELL UNIVERSITY

Weill Medical College

ASSISTANT/ASSOCIATE PROFESSOR

As part of a major expansion in its basic biomedical sciences research program, Weill Medical College of Cornell University is seeking several faculty to fill positions in a broadly based initiative in structural biology. The targeted area of research in the current search is signal transduction mechanisms, but exceptional candidates with related interests will also be considered. We are especially interested in candidates using novel methods to study the assembly and regulation of macromolecular assemblies involved in cell signaling.

Candidates for Assistant Professor should demonstrate the potential for establishing a vigorous independent research program, and candidates for Associate Professor should have an outstanding record of productivity. The recruited faculty will occupy newly renovated laboratory and office space, and generous start-up support will be provided. In addition to medical student teaching, candidates will participate in the Graduate School of Medical Sciences, which includes faculty from the Weill Medical College and the Sloan-Kettering Institute. Applications should include a curriculum vitae, statement of research interests, and three letters of recommendation. Applications should be sent to: Dr. Frederick R. Maxfield, Chairman, Structural Biology Recruitment Committee, Box # 27, Weill Medical College of Cornell University, 1300 York Avenue, New York, NY 10021.

Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.

ASSISTANT PROFESSOR NEURO/ENDOCRINE PHYSIOLOGY

Individuals employing modern cellular and molecular approaches to investigate the physiology of organs and organ systems are invited to apply for a twelve-month tenure-track position at the Assistant Professor level. Candidates must possess a Ph.D. M.D., or equivalent degree and at least two years of postdoctoral experience. Preference will be given to candidates with anticipated/current research funding from national sources and expertise in neuro/endocrine physiology. The successful candidate will be expected to pursue an active, independent research program and participate in medical and graduate teaching. Applicants should send a curriculum vitae, a brief description of current and future research interests, and three letters of reference to: Dr. Robert Beesley, Vice Chair, Department of Physiology, College of Medicine, The University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, OK 73190. E-mail: robert-beesley@ouhsc. edu; website: http://w3.ouhsc.edu/physiology. Completed applications will be accepted until November 15, 1999. Anticipated starting date: July 2000. OUHSC is an Equal Opportunity Institution.

BIOCHEMISTRY POSITION SOUTHWEST TEXAS STATE UNIVERSITY

The Department of Chemistry invites applications for a tenure-track ASSISTANT PROFESSOR to complement the development of undergraduate and graduate programs in biochemistry; available fall 2000. Ph.D. in chemistry or biochemistry required; postdoctoral experience preferred. Expectations include quality teaching in biochemistry and freshman chemistry with the development of a successful research program benefiting undergraduates and Master's students. Additional information is available at our website: http://www.swt.edu/~ji02. Submit a curriculum vitae, outline of research and teaching plans plus the names of three references to: Dr. James D. Irvin, Department of Chemistry, Southwest Texas State University, 601 University Drive, San Marcos, TX 78666 by October 25, 1999. Southwest Texas State University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR DEPARTMENT OF PHARMACOLOGY AND PHYSIOLOGY University of Rochester

The Department of Pharmacology and Physiology at the University of Rochester Medical Center invites applications and nominations for a full-time, tenuretrack position to be filled at the rank of Assistant Professor. Candidates qualified for higher ranks will also be considered. Applicants must have earned the Ph.D. or M.D. degree, or both, and have completed significant postdoctoral training. Applicants whose interests complement active areas of research in the department, including signal transduction, cell death, endocrinology, drug metabolism, and neuropharmacology, are particularly encouraged to apply. The University of Rochester Medical Center is undergoing a major expansion of research activities in aging and developmental biology, cancer biology, cardiovascular research, genetics, oral biology, and vaccine biology and immunology, and applicants whose research interests relate to these areas are encouraged to apply. The successful candidate will receive a competitive start-up package and salary and is expected to develop an extramurally funded research program and to participate fully in graduate and professional teaching programs. Review of candidates will begin immediately and will continue until the position is filled. Applicants should send their curriculum vitae, three recent reprints, a statement of future research interests and plans, and the names of three referees to: Dr. M. W. Anders, Chair, Department of Pharmacology and Physiology, University of Rochester Medical Center, 601 Elmwood Avenue, Box 711, Rochester, NY 14642. For information about the Department, please visit our website: www.urmc. rochester.edu/smd/phph/. The University of Roches-ter is an Equal Opportunity/Affirmative Action Employer; applications from women and underrepresented minorities are encouraged.

ASSISTANT/ASSOCIATE PROFESSOR OF PHARMACOLOGY

The Division of Basic Medical Sciences at Mercer University School of Medicine invites applications for a tenure-track position to begin around July 2000. The successful applicant will have a Ph.D. in pharmacology (or the equivalent) with at least two years of postdoctoral training and will be expected to participate in problem-based medical education as well as develop an independent research program capable of competing for extramural funding. Preference will be given to individuals with research and teaching experience in the chemotherapy of microbial, viral, and/or neoplastic diseases, but candidates with a strong background in other areas will also be considered. Applicants should send a curriculum vitae, statement of research and teaching interests, and the names of three references to: Robert J. Moon, Ph.D., Division of Basic Medical Sciences, School of Medicine, Mercer University, 1550 College Street, Macon, GA 31207. For more information about Mercer University School of Medicine, visit our website: www.mercer.edu. Equal Opportunity/Affirmative Action Employer. Minorities are encouraged to apply.

ASSOCIATE PROFESSOR MOLECULAR GENETICS

Position available immediately in molecular genetics research. Projects include linkage, mapping, and identification of candidate genes for bone density, soft- and hard-tissue regeneration in animal and human studies. Candidates must have Ph.D. in molecular biology/genetics with experience in DNA isolation, cloning, PCR, and basic molecular biology techniques. Experience in molecular genetics research, grant-writing, and good publication record required. Salary and benefits competitive; possibility exists for long-term position. Please send cover letter, curriculum vitae, and names of three references to: Dr. X. Li, Loma Linda University, P.O. Box 7210, Loma Linda, CA 92354. LLU is an Equal Opportunity Employer.

FACULTY POSITIONS IN MACROMOLECULAR STRUCTURAL BIOLOGY

The newly organized Department of Molecular Biology and Genetics at Cornell intends to hire two faculty.

One position, for an Assistant Professor, will focus on the application of x-ray crystallography to study macromolecular structure.

The other position will be for a faculty member at any professional level working in the general area of structural biology.

Applicants should have outstanding research credentials and an interest in teaching. Applicants should send a description of research interest a CV, and three letters of reference to the:

> **MBG Search Committee Biotechnology Building Cornell University** Ithaca, NY 14853

We will entertain applicants until the positions are filled.



Cornell University is an Equal Opportunity, Affirmative Action Employer & Educator.

http://www.cornell.edu

EUROPEAN OPPORTUNITIES

MAX-PLANCK-SOCIETY

offers a
GROUP LEADER POSITION

HUMAN COGNITION AND BEHAVIOUR at the Friedrich-Miescher-Laboratories, Tübingen, Germany

The candidate should have a Ph.D. in cognitive science, experimental psychology, bioengineering, physics or computer science and have already accomplished significant work, for instance in perception, motor control, or cognitive development. A strong computational background is

highly desirable.

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 March 2000. Appropriate laboratory space, equipment, and running costs, as well as the salaries for one additional postdoctoral scientist, one graduate student and one technician or programmer will be provided

Applications, including curriculum vitae, list of publications, and a short description of actual and future research should be sent by October 31, 1999 to: Prof. Dr. Heinrich Bülthoff, Max-Planck-Institut für biologische Kybernetik, Spemannstr. 38, D-72076 Tübingen, Germany. The Max-Planck-Society (www.mpg.de) is an equal opportunity employer and tries to increase the percentage of women in senior positions

UNIVERSITY OF NEW **HAMPSHIRE** DEPARTMENT OF **ZOOLOGY**

Assistant Professor Marine Animal Ecology Assistant Professor Aquaculture/Finfish Biology

Applications are invited for two Assistant Professor (tenure-track) positions in Marine Zoology. The positions will be supported jointly by the College of Life Sciences and Agriculture and the UNH Marine Program through the Center for Marine Biology.

Marine Ecology. We seek an individual with a strong background in ecological theory, experimental design and quantitative analysis whose research focuses on near-shore coastal and/or estuarine systems. Ecologists who study populations or communities, and who have an interest in conservation applications are encouraged to apply. Teaching responsibilities include courses in Marine Biology and Ecology and development of advanced courses in the successful candidate's areas of expertise.

Aquaculture. We seek an individual with a strong background in finfish aquaculture. Teaching responsibilities include courses in aquatic vertebrate biology and participation in a new aquaculture curriculum:

Active participation in research and graduate education and a strong commitment to undergraduate teaching are expected of applicants for both positions. Active involvement with the Shoals Marine Laboratory is also encouraged. UNH has strong programs in marine research and education supported by excellent facilities. Opportunities for research collaboration are available through the Center for Marine Biology of the UNH Marine Program; the Cooperative Institute for Coastal and Estuarine Environmental Technology (CICEET); and Sea Grant and Open Ocean Aquaculture (OOA) pro-

Review of applications will begin October 15, 1999 and will continue until positions are filled.

Submit curriculum vitae, names of four references, and statements of research and teaching interests to:

Faculty Search Committees Department of Zoology University of New Hampshire Durham, NH 03824-2617

UNH is committed to excellence through diversity in its faculty and strongly encourages women and minorities to apply.

Toxicogenomics Facilitator (HNV99-27) Staff Scientist Position in **Molecular Toxicology**

National Institute of Environmental **Health Sciences** National Institutes of Health

Research Triangle Park, North Carolina

The Laboratory of Environmental Carcinogenesis and Mutagenesis (LECM), National Toxicology Program (NTP), Division of Intramural Research, National Institutes of Environmental Health Sciences, National Institutes of Health, Research Triangle Park, NC, is seeking highly motivated and experienced Toxicogenomics Facilitator to lead the Molecular Toxicology Group of LECM. The NTP conducts 90-day and 2-year rodent toxicology/carcinogenesis studies on various agents. Subsequent studies are often conducted to better understand the pathogenesis of important effects in rodents so that relevance for human health can be better determined. The Molecular Toxicology Group coordinates the application of emerging technology advances to the goals of the NIEHS and NTP in advancing the field of toxicology, and in particular, the application of molecular advances from the human genome initiative. The successful candidate will be expected to develop leadership for the NIEHS and NTP in various aspects of molecular toxicology. The incumbent will be expected to devote 50% of his/her effort to the NIEHS Microarray Effort, 25% programmatic responsibilities, and 25% of the time to basic research efforts. In addition, this individual will be expected to facilitate collaborative efforts between NIEHS and other government agencies (such as EPA, FDA, NIOSH) and with the academic community and the private sector in developing and utilizing the new technologies, and publishing their findings in leading biology and toxicology journals.

Minimum qualifications for this position include an MD, Ph.D. or DVM degree in biochemistry, toxicology or other directly related field. Applicants must have relevant background experience and a record of accomplishment in applying molecular biology or biochemistry to research in toxicology. This must include evidence of the ability to facilitate the application of genomics and cDNA microarrays to toxicological research. The applicant must have demonstrated leadership in interdisciplinary research management. This includes relevant experience as a contract project officer, in cross discipline research, research group management and programmatic research projects. The applicant must have demonstrated broad scientific recognition as evidenced by participation in study sections, invited seminars and meeting presentations. The applicant must also have a demonstrated capability to effectively communicate with scientific and managenal bodies.

Information about the NIEHS National Toxicology Program can be obtained by accessing their home page on the internet at: http://ntp-server.niehs.nih.gov. For additional information about this position, contact Dr. Raymond Tennant at 919 541-4141. Applications from women and minority groups are particularly welcome.

Interested parties should submit a curriculum vitae with bibliography, a brief statement of research interests/accomplishments, and arrange for three letters of recommendation to be sent to:

Ms. Naomi Teasley (HNV99-27) **Human Resources Management Branch** NIEHS, P.O. Box 12233, Maildrop EC-11 Research Triangle Park, NC 27709 Phone: (919) 541-5151

NIH is an Equal Opportunity Employer

POSITIONS OPEN

ASSISTANT PROFESSOR MOLECULAR EPIDEMIOLOGY/ GENOMICS/HUMAN MOLECULAR GENETICS

The University of New Mexico School of Medicine is seeking a Molecular Epidemiologist/Human Geneticist to fill a tenure-track position at the rank of Assistant Professor. Funding for this position, including an attractive start-up package, is provided through a Howard Hughes Medical Institute Research Resources Grant.

The successful applicant will develop an independent research program focused on the molecular epidemiology/genetics of human disease, including functional genomics, gene-environment interactions, and the identification of polymorphic genes that predispose to disease, particularly cancer. Participation in graduate and medical teaching activities also will be expected.

Requirements of the position include a Ph.D., M.D., or equivalent degree, and postdoctoral research experience. Applicants also must be authorized to work in the United States. Demonstrated productivity, as evidenced by peer-reviewed publications, teaching, and extramural research support are highly desirable. For best consideration applicants should submit the following before October 15, 1999: a curriculum vitae, the names of three references, a concise description of their research program or plan to: Dr. Jeffrey Griffith, Chair, Department of Biochemistry and Molecular Biology, University of New Mexico School of Medicine, Albuquerque, NM 87131-5221.

UNM School of Medicine is an Equal Opportunity/Affirmative Action Employer and Educator.

The Department of Cell Biology and Neuroscience at Rutgers University, New Brunswick invites applications for two tenure-track positions at the ASSIST-ANT PROFESSOR level from individuals with Ph.D. and records of significant research achievement in cellular neuroscience or mammalian cell biology.

CELLULAR NEUROBIOLOGIST

Individuals employing molecular approaches to investigate cell signaling, synaptic plasticity, or neural integration are encouraged to apply.

MAMMALIAN CELL BIOLOGIST

Preferences will be given to individuals investigating the regulation of mammalian gene expression, macromolecular transport, cell signaling, or cell differentiation.

Excellent facilities and competitive start-up funds are available. Successful candidates will be expected to develop a vigorous externally funded research program, and to contribute to graduate and undergraduate education. Applicants should send a curriculum vitae, a statement of research interest, and the names and addresses of three references to: Dr. Richard E. Triemer, Chair, Department of Cell Biology and Neuroscience, Rutgers University, Nelson Biological Laboratories, 604 Allison Road, Piscataway, NJ 08854-8082. Review of applications will begin October 15, 1999, and continue until a suitable candidate is recruited. Rutgers University is an Equal Opportunity/Affiniative Action Employer.

University of Illinois at Chicago, Department of Chemistry invites applications for a tenure-track AS-SISTANT PROFESSOR of biochemistry beginning fall 2000. The successful candidate will be expected to carry out a full and vigorous program of innovative research and to contribute to the teaching of graduate and undergraduate students. We will consider outstanding candidates in any area of biochemistry but are especially interested in candidates in the area of important cell biological problems. Please submit applications, including curriculum vitae, list of publications, plan for future research, and three letters of reference by November 1, 1999, to: Prof. Wonhwa Cho, Chair, Biochemistry Search Committee, Department of Chemistry, The University of Illinois at Chicago, 845 West Taylor Street, M/C 111, Chicago, IL 60607-7061. UIC is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR IN PLANT PATHOLOGY MOLECULAR GENETICS OF FUNGAL PLANT PATHOGENS University of Florida, Gainesville

Applications are invited for a 12-month tenuretrack position with 80 percent research and 20 percent teaching responsibility. The appointee is expected to establish a research program in molecular genetics of plant pathogenic fungi important to Florida. These studies may include identification, characterization, and manipulation of fungal pathogenicity genes and corresponding host resistance genes, and mechanisms of pathogenicity and host resistance. Ph.D. in plant pathology, plant molecular biology, mycology, or related field is required with a strong commitment to work on molecular genetic mechanisms of phytopathogenic fungi and the use of this information for implementing disease control strategies. He/she is expected to pursue competitive research grant funds and to contribute to departmental educational programs. Applicants should submit a statement of research and teaching goals and interests, curriculum vitae, graduate and undergraduate transcripts, list of publications, and three letters of reference no later than December 31, 1999.

Starting date: July 1, 2000. Send applications to:

Dr. Jeff Jones
Plant Pathology Department
University of Florida
P.O. Box 110680
Gainesville, FL 32611-0680
Website: http://plantpath.ifas.ufl.edu
Telephone: 352-392-3631
FAX: 352-392-6532
E-mail: jbj@gnv.ifas.ufl.edu

The University of Florida is an Equal Opportunity Employer.

TENURE-TRACK POSITION IN CHEMISTRY, BOSTON COLLEGE

Applications are invited for a tenure-track position, effective September 2000. The areas of interest are biological chemistry and experimental physical chemistry. Biological chemistry is defined to include biochemistry as well as bioorganic, bioinorganic, and biophysical chemistry. Experimental physical chemistry is broadly defined to include traditional physical chemistry and chemical physics, as well as materials science, biophysics, physical inorganic, and physical organic chemistry. The Department is housed in an award-winning new research facility in Boston, and includes nearly 100 Doctoral students and an internationally recognized faculty. The successful applicant is expected to maintain a prominent, externally funded research program. Applicants are sought at the entry ASSISTANT PROFESSOR level, although outstanding applications for more senior levels are also welcome. Applicants at the beginning Assistant Professor level should send a résumé and a summary of research plans, and should arrange to have four letters of reference transmitted. Established Investigators should send a letter of application and appropriate supporting materials. All materials for biological chemistry applicants should be sent to Marc Snapper and all materials for physical chemistry applicants should be sent to Paul Davidovits at: Department of Chemistry, Boston College, Chestnut Hill, MA 02467. Applications should be completed by October 1, 1999. Website: http://chemserv.bc.edu; FAX: 617-552-2705. Boston College, a university of 14 schools and colleges, is an Equal Opportunity Employer and supports Affirmative Action.

Biology. Tenure-track ASSISTANT PROFES-SOR. January 2000. Required: Ph.D. in developmental biology. Teach and coordinate multiple lecture and laboratory sections of lower-division courses for the major, teach animal development, and direct undergraduate research. Screening begins September 30, 1999, and continues until the position is filled. Application information may be obtained at website: http://www.science.lander.edu/jobs.html. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

TENURE-TRACK POSITION HUMAN CANCER GENETICS

The Laboratory of Immunobiology (LIB), Division of Basic Sciences, of the National Cancer Institute invites applications for a tenure-track position in human cancer genetics. The applicant should have the potential to develop an independent research program in human cancer genetics. The position will be supported by two Postdoctoral Fellows, ample laboratory space, and access to the unique clinical resources of the National Cancer Institute. Through collaborative working arrangements, the tenure-track candidate can study patients with rare inherited malignant disorders. Current laboratory Principal Investigators are Berton Zbar (genetics of human kidney cancer), Michael I. Lerman (genetics of human lung cancer), Edward Leonard (inflammation), and Steven Hou (signal transduction in *Drosophila*). This position is available for a Physician with a salary in the \$75,000 range to be commensurate with education and experience and the successful candidate may be eligible for medical school loan repayment. Reimbursement for relocation expenses up to \$2,500 may be authorized. A one- or two-page statement of research interests and goals should be submitted in addition to three letters of recommendation and a curriculum vitae to: Ms. Teri Cecil, Building 576, Room 102, NCI-Frederick Cancer Research and Development Center, P.O. Box B, Frederick, MD 21702. Telephone: 301-846-5402; FAX: 301-846-5397; e-mail: tcecil@mail.ncifcrf.gov. Candidates must be U.S. citizens or permanent residents. Applications must be received by December 1, 1999. The National Cancer Institute is an Equal Opportunity Employer.

ASSISTANT PROFESSOR DEPARTMENT OF MEDICAL MICROBIOLOGY AND IMMUNOLOGY University of Minnesota, Duluth School of Medicine

A 12-month Assistant Professor tenure-track position is available in the Department of Medical Microbiology and Immunology at the University of Minnesota, Duluth, School of Medicine. The successful applicant must have a Ph.D., M.D., or equivalent degree, postdoctoral experience, and a published record of research accomplishments. Responsibilities will include developing an extramurally funded research program in microbial pathogenesis, teaching pathogenic bacteriology to medical students, and graduate student training. Competitive salary and start-up funds are available for this position. Applicants should submit a letter of application, curriculum vitae, and a succinct statement of future research goals. We will begin reviewing applications on October 15, 1999. Applicants should also have three letters of reference sent directly to the Search Committee. Address all materials to: Dr. Joseph Prohaska, Chair of the Search Committee, Department of Biochemistry and Molecular Biology, University of Minnesota, Duluth, Duluth, MN 55812. E-mail: jprohask@ d.umn.edu. The University of Minnesota, Duluth is an Equal Opportunity Educator and Employer.

ASSISTANT PROFESSOR OF DEVELOPMENTAL/CELL BIOLOGY

The Department of Anatomy and Cell Biology at the University of Kansas Medical Center invites applications for a tenure-track Assistant Professor. We seek outstanding candidates with postdoctoral experience who can establish an externally funded research program, preferably on molecular and cellular aspects of development in vertebrates. Candidates will be expected to participate in team-taught courses for graduate/medical students. An extremely attractive start-up package is available. Applicants should submit a curriculum vitae and concise statement of research plans, and have three letters of reference sent under separate cover, to: Dale R. Abrahamson, Ph.D., Professor and Chair, Department of Anatomy and Cell Biology, University of Kansas Medical Center, 3901 Rainbow Boulevard, Kansas City, KS 66160-7400.

BIOINFORMATICS/ COMPUTATIONAL BIOLOGY SEARCH

The Albert Einstein College of Medicine invites applications for one or more tenure-track appointments. The successful candidates will be part of a significant expansion of expertise in Bioinformatics and Computational Biology at the institution and contribute to the emerging research programs in structural and functional genomics, proteomics, computational chemistry, biophysical modeling and imaging. Appointments are expected at the Assistant and Associate Professor level. Applicants must have a Ph.D. and are expected to have Post Doctoral research experience in relevant biological areas.

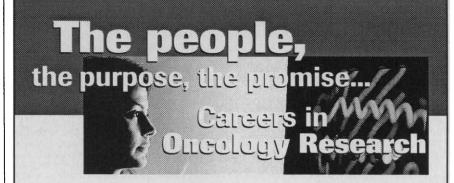
The College of Medicine provides nationally competitive start-up packages for qualified faculty applicants. The applicant will be expected to build and maintain a vigorous, independent research program with excellent opportunities for active collaborations within the institution.

Applicants should send a CV, a 1-2 page statement of research interests, and arrange to have 3 letters of reference sent to: Ms. Julie Herrick, Assistant Dean, Albert Einstein College of Medicine, Jack & Pearl Resnick Campus, 1300 Morris Park Ave, Beffer Building-Room 312, Bronx, NY 10461.





The U.S. Department of Agriculture, Agricultural Research Service (ARS), Plant Sciences Institute, Insect Biocontrol Laboratory in Beltsville, Maryland is seeking a Botanist/Molecular Biologist/Microbiologist/Research Entomologist, GS-11/12/13. Salary is commensurate with experience (GS-11:\$40,714-\$52,927; GS-12:\$48,796-\$63,436; GS-13:\$58,027-\$75,433 per annum). Candidates must be U.S. citizens. Research focuses on the molecular phylogenetic analysis of entomopathogen genera, host range, virulence activity, molecular and classical epidemiology, and development of novel strategies for controlling insect pests of economic importance with insect fungi and fungal products. Candidates must request a copy of the vacancy announcement (ARS-X9E-9442) by either calling 301-504-1484 or by copying the full text announcement from the ARS Homepage at www.ars.usda.gov. Candidates must submit specific information as outlined in the vacancy announcement. Applications must be postmarked by the closing date of October 1, 1999. USDA/ ARS is an equal opportunity provider and employer.



For years, Hoffmann-La Roche Inc. has been at the forefront of oncology research and therapy. Thanks to our groundbreaking research in angiogenesis, cell growth inhibition, apoptosis, antibody-based therapies and vaccines, we are gaining new insights into diseases that will potentially save the lives of millions worldwide. Be part of the exhilarating process of discovery happening at Roche. Right now, the following opportunities are available at our Nutley, New Jersey Pharmaceutical Research Center:

Principal Scientist

Department of Oncology

We are seeking a Ph.D. level candidate with experience in cancer drug discovery to take a leadership role in the identification and initiation of new antitumor research projects. You will be expected to manage your own research projects, and provide scientific and creative expertise to support the progression of drug candidates in cellular and/or animal model systems.

You will need a Ph.D. in the Biological Sciences in a cancer-related field, preferably in the areas of cell cycle, signal transduction or apoptosis. Industry experience (pharmaceutical or biotech) with cancer research, particularly in contributing to the initiation and progression of successful research projects, is highly desired. Additionally, you will need excellent interpersonal skills that enable you to work in a dynamic and highly team-oriented, matrix environment.

Job Code: 99-000-PS01

Associate Therapeutic Area Head Antitumor Therapeutics - Department of Oncology

We are seeking a candidate with a strong background in cancer drug discovery to assume a leadership role in this department. Here, you will be expected to broadly apply your scientific and creative skills towards the identification and initiation of new antitumor therapeutic targets and projects in Oncology. In this position, you will apply your knowledge and understanding of tumor biology and drug discovery to both the scientific and strategic elements of developing a solid oncology research portfolio. In addition, you and your group will be expected to manage your own research projects as well as contribute to multiple cross-functional teams within the organization.

You will need a Ph.D. in the Biological Sciences, in cancer biology or a cancer-related field, and 5+ years of industry (pharmaceutical or biotech) experience. Your record of accomplishments will reflect a broad knowledge of cancer biology, particularly in one or more of the following areas: cell cycle regulation, signal transduction, growth factor receptors and apoptosis. Demonstrated experience in managing cross-functional teams, and in initiating and directing effective research projects are required, coupled with excellent interpersonal skills. Experience in contributing research expertise to clinical and developmental projects is desirable. **Job Code:** 99-000-1428

As one of NJ Monthly's "Best Companies to Work for in New Jersey," we offer competitive salaries and an outstanding benefits package that includes on-site childcare and a state-of-the-art fitness center. For consideration, please forward your resume, indicating job code and salary requirements to: Hoffmann-La Roche Inc., 340 Kingsland Street, Nutley, NJ 07110; Fax: 973-235-2767; E-mail: nutley.research@roche.com. We appreciate your interest in Hoffmann-La Roche Inc., but can only respond to qualified candidates. We are an equal opportunity employer, fully committed to diversity in the workplace. For more information visit our web site at: www.RocheUSA.com

ASSISTANT PROFESSOR THEORETICAL EVOLUTIONARY BIOLOGY

University of California, Irvine

The Department of Ecology and Evolutionary Biology at the University of California, Irvine solicits applications for a tenure-track position at the Assistant Professor level. We seek a Theoretical Evolutionary Biologist. We prefer a Population Geneticist with expertise in the modeling or analysis of molecular data (bioinformatics), but outstanding Evolutionary Biologists in any subject will be considered. We currently have a strong evolutionary genetics group with expertise in plant breeding systems and genomics, QTL mapping, phylogenetics, molecular evolution, life history evolution, host-parasite coevolution, and *Drosophila* population genetics. Further information about the Department can be obtained at website: http://ecoevo.bio.uci.edu. The successful candidate will be expected to participate in both undergraduate and graduate teaching programs. By 15 November 1999 please submit a curriculum vitae, a description of research interests and teaching interests, relevant publications, and arrange to have three letters of recommendation sent to: Evolution Search Committee, Department of Ecology and Evolutionary Biology, 321 Steinhaus Hall, University of California, Irvine, CA 92697-2525.

The University of California, Irrine is an Equal Opportunity Employer committed to excellence through diversity.

ASSOCIATE PROFESSOR PHYSIOLOGY

Individuals employing modern cellular and molecular approaches to investigate the physiology of organs and organ systems are invited to apply for a tenure-track position at the Associate Professor level. Candidates must possess a Ph.D., M.D., or equivalent degree. A strong record of continuous research productivity and funding, including current support from national sources, is required. Preference will be given to candidates with expertise in cardiovascular physiology, but individuals with outstanding credentials in other areas of physiological research will be considered. The appointee will be expected to pursue an active research program and participate in medical and graduate teaching. Applicants should send a curriculum vitae, a brief description of current and future research interests, and the names and addresses of three references to: Dr. Robert Beesley, Vice Chair, Department of Physiology, College of Medicine, The University of Oklahoma Health Sciences Center, P.O. Box 26901, Oklahoma City, OK 73190. E-mail: robert-beesley@ouhsc.edu; website: http://w3.ouhsc.edu/physiology. Review of applications will begin November 15, 1999. Anticipated starting date: July 2000. OUHSC is an Equal Opportunity Institution.

ASSISTANT/ASSOCIATE/ FULL PROFESSOR

The School of Kinesiology at the University of Illinois, Chicago invites applications for a tenure/tenure-track faculty position. The School seeks candidates with a Ph.D. or M.D. who can demonstrate research excellence in exercise physiology. Specific areas of interest include, but are not limited to, basic research studies of skeletal muscle or cardiovascular adaptations with exercise. Preference will be given to those applicants who have a proven ability to compete for external research funding. Applicants should include a curriculum vitae, a brief description of research accomplishments and future goals, and the names of three references. The closing date for applications is January 1, 2000. Please address applications to:

Karyn Esser, Ph.D. School of Kinesiology (m/c 194) University of Illinois at Chicago 901 West Roosevelt Road Chicago, IL 60608

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

POSITIONS OPEN

PLANT MOLECULAR SYSTEMATIST

The Department of Biological Sciences at Western Michigan University seeks applications for a tenure-track ASSISTANT or ASSOCIATE PROFESSOR position in plant molecular systematics beginning fall 2000, pending budgetary approval. A Ph.D. degree and postdoctoral training are required. The development of an externally funded research program and contribution to the department's M.S. and Ph.D. programs are expected.

Preference will be given to candidates with training in phylogenetic theory and analysis, experience with molecular laboratory methods, a broad knowledge of plant natural history, and knowledge of local flora. The ideal candidate should interact with existing faculty with research interests in plant biology, plant physiology, evolution, and ecology (see website: http://www.wmich.edu/bios). Teaching responsibilities will include an undergraduate course in botany and a graduate course in the candidate's area of expertise.

Send a letter of application, curriculum vitae, statements of research and teaching interests, transcripts, and three letters of reference to: Dr. Leonard Beuving, Chairman, Department of Biological Sciences, 1201 Oliver Street, Western Michigan University, Kalamazoo, MI 49008. Review of applications will commence October 1, 1999, and will continue until the position is filled. Western Michigan University is a Carnegie classification Doctoral I institution and an Equal Opportunity Employer with an Affirmative Action program. Applications from underrepresented groups are encouraged.

GLOBAL CHANGE BIOLOGIST-9802

The Department of Biological Sciences at the University of Illinois at Chicago seeks applications for a tenure-track ASSISTANT PROFESSOR position in ecological, evolutionary, physiological, or biogeochemical responses to global change. Preference will be given to individuals with postdoctoral experience, demonstrated research productivity, and compatibility with existing research in the Department. Candidates are expected to develop a strong, externally funded research program, and to contribute to teaching at the undergraduate and graduate levels. Salary and start-up funds are competitive. Submit statements of teaching and research interests, curriculum vitae, reprints, and have three letters of recommendation sent to: Dr. Lon Kaufman, Head, Department of Biological Sciences, University of Illinois at Chicago, 845 West Taylor, m/c 066, Chicago, IL 60607. Review of applications will begin immediately, and continue until suitable candidates are found. Starting date is negotiable. For more information about the Department and faculty, visit the Department's website: http://www.bios.uic.edu. The University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer, and encourages applications from women and minority individuals

PROFESSOR UNIVERSITY OF ILLINOIS

The Department of Medicine is seeking to fill a tenured senior faculty position. The candidate should have an M.D. and/or Ph.D. degree and a strong commitment to research and teaching. We are seeking a recognized leader in the areas of sleep and sleeprelated breathing disorders to direct a well-established and funded team of Investigators. Candidates with formal training and experience in both biomedical engineering and physiology/pharmacology will be given preference. Evidence of originality and scientific accomplishment, high-quality peer-reviewed publications, and national leadership roles is important. A record of past and ongoing extramural grant support is essential. Candidates should send their curriculum vitae, the names of three references, representative reprints, and a synopsis of their current and future research interests to: Sharon Gaik, Department of Medicine, The University of Illinois at Chicago, 840 South Wood (M/C 787), Chicago, IL 60612. FAX: 312-413-5604. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR TENURE-TRACK POSITIONS DEPARTMENT OF PHARMACOLOGY Uniformed Services University of the Health Sciences

Candidates with research programs in all areas of pharmacology are encouraged to apply. Require Ph.D. and/or M.D. degree and potential to develop a vigorous extramurally funded research program. Appointees will participate in medical and graduate student teaching and will receive a generous start-up package for equipment and personnel. Uniformed Services University of the Health Sciences (USUHS) offers a stimulating environment for professional development and excellent research facilities in close proximity to NIH, FDA, and Washington-area biotechnology laboratories (see website: www.usuhs.mil/pha/index.html). Faculty salaries are fully supported by the University.

Applicants should submit curriculum vitae, bibliography, names of three references, and a three-page statement describing current and future research interests to: Dr. Brian Cox, Chair, Pharmacology Search Committee, Uniformed Services University of the Health Sciences, Department of Pharmacology, 4301 Jones Bridge Road, Bethesda, MD 20814-4799. Application review begins in October, 1999. Women and minorities are encouraged to apply. Equal Opportunity Employer/Affirmative Action. Foreign nationals considered only if qualified U.S. citizens are not available.

TENURE-TRACK ASSISTANT PROFESSOR

The Department of Physiology, University of Florida College of Medicine, invites applications for a fulltime tenure-track Assistant Professor position. The successful candidate will be a Mammalian Physiologist who will develop an extramurally funded independent research program and participate in departmental teaching and educational programs. Initial support will be provided by the Howard Hughes Medical Research Program for Medical Schools. Applicants must have a Ph.D., M.D., or equivalent degree, as well as postdoctoral experience. The successful applicant will complement current departmental and college strengths in the areas of gene therapy for hypertension, signal transduction, fetal/maternal physiology, neuroendocrinology, membrane transport and ion channels, developmental genetics, and other interests described at our website: http://www.med.ufl. edu/phys/index.html. Submit a curriculum vitae, including a statement of research plans, and have three letters of reference sent to: Dr. Bruce R. Stevens, Search Committee Chair, Department of Physiology, College of Medicine, University of Florida, P.O. Box 100274, Gainesville, FL 32610-0274. Salary is negotiable. Application deadline is October 15, 1999. Anticipated start date is April 1, 2000. The University of Florida is an Equal Employment Opportunity/Affirmative Action Employer,

Applications are invited for a tenure-track ASSIST-ANT or ASSOCIATE PROFESSOR position in chemical ecology/ecological chemistry. Professional training and experience is required in the detection, identification, and quantification of chemicals mediating ecological interactions, preferable among aquatic organisms. Applicants should have experience in fields such as bioorganic marine chemistry or biosynthesis and regulation of secondary metabolism in aquatic organisms, and be applying this expertise to ecological or evolutionary problems. The position could be a joint appointment between the School of Biology and the School of Chemistry and Biochemistry. Extensive interactions are expected with Ecologists studying sensory biology, feeding deterrents and stimulants, mate recognition, mediation of microbial interactions, and chemosensory physiology. A résumé, three letters of reference, and a statement of research and teaching interests should be submitted by November 12, 1999, to: Chemical Ecology Search, School of Biology, Georgia Institute of Technology, Atlanta, GA 30332-0230. Georgia Institute of Technology is an Equal Opportunity/Affirmative Action Employer.

POST DOCTORAL FELLOWSHIP/ R-SEARCH ASSOCIATE

Rush-Presbyterian-St. Luke's Medical Center's cartilage cell biology laboratory, part of an outstanding cartilage and osteoarthritis research group, has the following opportunity available.

Current studies are focused in two areas: integrin function in cartilage and aging and IGF-1 activity. This position requires some training in molecular biology and experience with cell culture. Background in integrins, IGF-1, or cell-signaling studies preferred. Competitive salaries are dependent upon experience. Interested candidates please send your CV and three letters of reference to: Dr. Richard F. Loeser, Rheumatology, Rush Medical College of Rush-Presbyterian-St. Luke's Medical Center. 1725 W. Harrison, Suite 1017, Chicago, IL 60612, E-mail: rloeser@rush.edu Or visit our Website at www.rush.edu We are an equal opportunity employer committed to workforce diversity.

Rush-Presbyterian-St. Luke's Medical Center

University of Colorado Health Sciences Center School of Pharmacy

Faculty Positions (Assistant, Associate or Full Professor)

The Department of Pharmaceutical Sciences is a research intensive group of 20 faculty members focusing their research efforts in the areas of molecular toxicology, pharmaceutical biotechnology, biomolecular structure and the experimental therapeutics of anticancer agents. The department is seeking applicants for positions at the level of assistant, associate or full professor. Senior level positions require an established record of scientific excellence.

Molecular Toxicology. Preference will be given to individuals with expertise in pharmacogenetics and mechanisms underlying individual susceptibility to toxicity. Applicants with expertise in other areas of molecular toxicology also will be considered. The successful candidate will play an important role in graduate training in toxicology and in the programs of the University of Colorado Cancer Center.

Biophysical Chemistry of Macromolecules. Preference will be given to individuals with expertise in molecular and thermodynamic analysis of structure-function relationships, stabilization and macromolecule-ligand interactions. The successful candidate will play an important role in graduate training and in the programs of the School of Pharmacy's Center for Pharmaceutical Biotechnology.

Cancer Pharmacology/Antitumor Drug Design. Preference will be given to individuals with expertise in translational approaches to anticancer drug development, novel pharmacogenomic strategies for identification of new targets and combinatorial or structure-based approaches to drug design. The successful candidate will play an important role in graduate training and in the programs of the University of Colorado Cancer Center.

Successful candidates will be expected to contribute to teaching at the professional and graduate levels and develop or maintain a successful, extramurally funded research program. Faculty rank and salary will be dependent upon qualifications and experience. Applicant screening will begin October 31, 1999 and continue until the positions are filled. Applicants should send a letter of interest, a curriculum vitae and the names of three references with regular and e-mail addresses and phone and fax numbers to:

> Faculty Search (Please Specify Position) Department of Pharmaceutical Sciences, School of Pharmacy 4200 East Ninth Avenue, Box C238 Denver, Colorado 80262-0238 Fax: (303) 315-0274 Telephone: (303) 315-7732

The University of Colorado Health Sciences Center is committed to equal opportunity and affirmative action.

CONFERENCE

15th Annual International Conference on



Contaminated SOILS & Water

Analysis, Site Assessment, Fate, Environmental and Human Risk Assessment, Remediation and Regulation

October 18 - 21, 1999 University of Massachusetts at Amherst

Sessions:

- Analysis and Fate
 Chlorinated Hydrocarbons • Radionuclides • RBCA • Remediation • Risk • Sediments • TPH
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- Arsenic Bioavailability Cold & Winter Remediation • Massachusetts Military Reservation
- Natural Attenuation Phytoremediation UXO
 - Waste Containment Systems

Workshops:

· Soil to Indoor Air Vapor Exposure Pathway • Biostimulation of Aquifers • Environmental Fate of Hydrocarbons • Assessment and Remediation of Training/Test Ranges at Military Installations . Multiphase Extraction Systems • Sampling Designs and Statistical Methods • Massachusetts Contingency Plan Coal Ash/Wood Ash Exemptions • Management Practices for Outdoor Shooting Ranges • Ethics for Environmental Professionals • VOC Loss in Soil Samples • Development of Site-Specific Bioaccessibility and Bioavailability Data • Compliance Through Conceptual Site Modeling . State and Electric Utility Response to De-Regulation . Detection and Quantitation Limits in Regulatory Analysis

For More Information Contact the Conference Directors:

Paul Kostecki, PhD • Edward Calabrese, PhD Hilary I. Inyang, Ph.D. Phone: (413) 545-1239 • www.aehs.com

RPI, a leader in the development of ribozyme-based pharmaceutical products, currently seeks the following for our research and development team in Boulder, Colorado:

Research Associate/Scientist

Seeking an MS/PhD-level scientist with at least 5 years of experience in chemistry of nucleic acids. Must have extensive experience in the design and execution of multi-step synthesis of analogs of nucleosides and nucleotides and other natural compounds. Proficiency in modern analytical techniques required. Experience in scale-up optimization desirable. Must be a motivated, independent thinker with the desire to be successful in a goal-oriented, team environment and the ability to direct projects and interact with scientists from diverse disciplines. Excellent communications, analytical, organizational and computer skills required.

RPI offers a competitive salary and an excellent benefits package, including stock options. For consideration, send a curriculum vitae and the names of three references to:

Ribozyme Pharmaceuticals, Inc. 2950 Wilderness Place, Job #011, Boulder, CO 80301 Fax: (303) 449-6995. E-mail: jobs@rpi.com

Visit our Web site at: http://www.rpi.com No phone calls, please. We are an equal opportunity employer.





Post-**Doctoral Positions**

Molecular Neuroscience

MOUNT SINAI SCHOOL OF MEDICINE

Alzheimer's Disease

Mount Sinai School of Medicine is a leader in medical research and education. Two post-doctoral positions are available immediately in the Neuroinflammation Research Laboratories, Department of Psychiatry. The laboratories study the mechanisms of inflammation in Alzheimer's Disease and brain aging at the level of gene expression using both in vivo and in vitro model systems. Candidates with molecular biological, neuroanatomical and cell culture expertise are strongly encouraged to apply for these positions.

For consideration, please send C.V. and the names of three references to: Giulio M. Pasinetti, M.D., Ph.D., **Director Neuroinflammation Research** Laboratories, Department of Psychiatry, Box 1229, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. We are an equal opportunity employer fostering diversity in the workplace.

ASSISTANT PROFESSOR EVOLUTIONARY OR COMPARATIVE **PHYSIOLOGY**

University of California, Irvine

The Department of Ecology and Evolutionary Biology seeks to fill a tenure-track Assistant Professor position in the area of evolutionary or comparative physiology of animals. Area of research specialization is open, but relevance of research interests to broad evolutionary or ecological issues is important. Applicants with research related to physiological genomics and global biological change are welcomed. Information about the Department can be obtained at website: http://ecoevo.bio.uci.edu. The successful candidate will be expected to teach in undergraduate courses in animal physiology as well as ongoing graduate courses in evolutionary and comparative physiology. By 15 November 1999 please submit a curriculum vitae, description of research and teaching interests, relevant publications, and arrange to have three letters of recommendation sent to: Physiology Search Committee, Department of Ecology and Evolutionary Biology, 321 Steinhaus Hall, University of California, Irvine, CA 92697-2525. The University of California, Irvine is an Equal Opportu-

nity Employer committed to excellence through diversity

The Department of Biochemistry at the University of Kentucky has several full-time, tenure-track positions available at the ASSISTANT PROFESSOR level. These positions are a part of a major expansion of the University in basic and clinical research. The successful candidates will be expected to develop strong independently funded research programs and to participate in departmental teaching activities. Areas of research interest in the department include cell cycle control; developmental regulation; signal transduction; membrane biogenesis, protein structure and function; transcriptional regulation; function and biological roles of processing proteases; DNA damage and repair; structure of viral replicases; protein chaperones; glycobiology, and vesicular transport and secretory complexes. Interested persons should submit their curriculum vitae, a summary of research interests, and letters of recommendation from at least three references to: Faculty Search Committee, Department of Biochemistry-607, University of Kentucky Medical Center, 800 Rose Street, Lexington, KY 40536-0298.

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

California Institute of Technology invites applications for a tenure-track position as ASSISTANT **PROFESSOR** in the field of organic chemistry. The initial appointment will be for four years. Exceptionally well-qualified applicants may also be considered at the ASSOCIATE or FULL PROFESSOR level. Outstanding candidates who have completed their Ph.D. and have a strong commitment to research and teaching excellence are encouraged to apply. Submit curriculum vitae, publication list, a description of proposed research, and three letters of recommendation to: Professor Robert H. Grubbs, Organic Chemistry Search Committee, M/C 164-30CR, California Institute of Technology, Pasadena, CA 91125. Applications should be received by November 15, 1999. The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to

ASSISTANT to FULL PROFESSOR. Behavioral Medicine Division, Wayne State University School of Medicine, Department of Psychiatry and Behavioral Neurosciences. Ph.D. or M.D. with strong research record sought to conduct independent and collaborative research on molecular biology of blood vessels, genetics, and effects of sex hormones on vascular function. Demonstrated funding ability required. Send curriculum vitae, reprints, and statement of research interests to: Robert R. Freedman, Ph.D., Professor and Director, 275 East Hancock, Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

DIRECTOR, NORTH CAROLINA STATE UNIVERSITY-INDUSTRY COOPERATIVE TREE IMPROVEMENT PROGRAM

The Department of Forestry seeks a RESEARCH ASSOCIATE PROFESSOR or RESEARCH PROFESSOR to lead this industrial/state/university operational tree breeding cooperative. The Director must have strong administrative and communication skills to work with the members and staff to achieve consensus on current and future operational activities. He/She conducts research on the application of genetic principles to forest tree breeding, directs graduate students, and participates in the graduate teaching program in the Department of Forestry. A Ph.D. degree, at least 10 years of experience in tree breeding or genetics, and strong quantitative and analytical skills in tree improvement and forest genetics are required. The position will be a full-time, nontenure-track appointment at the Research Associate Professor or Research Professor level, funded by external contributions to the North Carolina State University-Industry Cooperative Tree Improvement Program. For application information, contact:
Dr. Barry Goldfarb, Telephone: 919-515-4471;
e-mail: barry_goldfarb@ncsu.edu. Position available May 1, 2000. For a full description, see website: http://www2.ncsu.edu/ncsu/forest_resources/ for/research/tip/director.htm. North Carolina State University is an Equal Opportunity/Affirmative Action Employer.

Molecular biology. The Department of Biology, Kenyon College, invites applications for a TENURE TRACK POSITION in molecular biology. We seek a broadly trained Biologist; some preference will be given to candidates with research interests in molecular evolution or animal development. The successful candidate will teach in the introductory sequence, teach molecular biology and other advanced topics based on field of expertise, and advise undergraduate independent research projects. Kenyon provides research start-up support. Applicants should hold a Ph.D. degree and demonstrate teaching excellence, the potential to maintain research involvement by undergraduates, and should show promise of establishing a productive research program.

Review of applications will begin 19 October 1999 and continue until the position is filled. Statements of teaching and research interest, curriculum vitae, undergraduate and graduate transcripts, and three letters of reference should be sent directly to: Molecular Biology Search Committee, Biology Department, Kenyon College, Gambier, OH 43022. E-mail: biosearch@kenyon.edu. Visit our website: http:// www2.kenyon.edu/depts/biology/.

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

The Department of Chemistry and Biochemistry, University of Maryland at College Park invites applications for two tenure-track or tenured positions in biochemistry. Candidates at all levels will be considered (ASSISTANT, ASSOCIATE, or FULL PRO-FESSOR). Research areas of particular interest include, but are not limited to, membrane biochemistry, including macromolecular trafficking; structure/function of DNA or RNA; approaches that take advantage of recent advances in genomics; and new methods for genome-wide transcription and protein analysis. Candidates will also have the opportunity to participate in the campuswide Molecular and Cell Biology Program and the newly established Center for Biomolecular Structure and Organization. Submit a curriculum vitae, a three-page description of research plans, and arrange for three letters of reference to be sent to: Prof. Douglas A. Julin, Biochemistry Search Committee, Department of Chemistry and Biochemistry, University of Maryland, College Park, MD 20742-2021. Applications will be considered until the positions are filled, but for best consideration should be received by October 15, 1999. UMCP encourages applications from women and members of minority groups and is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR YEAST CELL BIOLOGY/GENETICS **BRANDEIS UNIVERSITY**

The Department of Biology and the Rosenstiel Center, Brandeis University, seeks a tenure-track Assistant Professor with strong research interests in yeast cell biology and genetics, beginning in September 2000. The successful candidate will occupy a laboratory well-equipped for studies using yeast, but applications will be considered from candidates studying other model organisms. Teaching will be in the areas of cell biology and genetics, at both the graduate and undergraduate level. Candidates should submit a curriculum vitae and a detailed summary of present research and future research plans. The candidate should also arrange for three letters of recommendation to be sent to:

Cell Biology/Genetics Search Committee Rosenstiel Center MS029 **Brandeis University** 415 South Street Waltham, MA 02454-9110

Applications will be reviewed as they become complete, but those received after October 31, 1999, may not receive full consideration. Brandels University strongly encourages applicants from qualified women and minorities.

ASSISTANT or ASSOCIATE PROFESSOR. Organic chemistry, California State University, Long Beach invites applications for a tenure-track position beginning August 23, 2000. Applicants must have a Ph.D. in organic chemistry and a demonstrated potential for effective teaching and for developing an independent, externally funded research program involving undergraduate and Master's students. Postdoctoral experience preferred. To apply, submit a letter of application, a résumé, and a statement of teaching and research interests, and have official undergraduate and graduate transcripts and three letters of recommendation sent by November 5, 1999, to: Dr. Stuart R. Berryhill, Chair of Organic Search Committee, Department of Chemistry and Biochemistry, California State University, Long Beach, Long Beach, CA 90840-3903. FAX: 562-985-8557. An Equal Employment Opportunity/Affirmative Action/Title IX/ADA Employer.

Brandeis University announces a tenure-track position in experimental physical chemistry to start on or after January 1, 2001. Candidates must give evidence of potential distinction in innovative research and in undergraduate and graduate teaching. Those with interests in biophysical or bioanalytical applications are especially urged to apply. Appointment is anticipated at the ASSISTANT PROFESSOR level, but a more senior appointment may be possible. Applicants should provide a curriculum vitae, describe their research plans, and arrange to have three confidential letters of recommendation sent to: Search Committee, Department of Chemistry, MS-015, Brandeis University, Waltham, MA 02254-9110. E-mail: chmsrch@brandeis.edu. Applications will be reviewed as they become complete, but those received after November 15, 1999, may not receive full consideration. Brandeis University strongly encourages applications from women and qualified minority candidate.

ASSISTANT or ASSOCIATE PROFESSOR. Analytical chemistry. California State University, Long Beach invites applications for a tenure-track position beginning August 23, 2000. Applicants must have a Ph.D. in analytical chemistry or a closely related area, a demonstrated potential for effective teaching and for developing an independent, externally funded research program involving undergraduate and Master's students. Postdoctoral experience preferred. To apply, submit a letter of application, a résumé, and a statement of research and teaching interests, and have official transcripts from undergraduate and graduate institutions and three letters of recommendation sent by November 5, 1999, to: Dr. Dennis M. Anjo, Chair of Analytical Search Committee, Department of Chemistry and Biochemistry, California State University, Long Beach, CA 90840-3903. FAX: 562-985-8557. An Equal Employment Opportunity/Affirmative Action/Title IX/ADA Employer.

MOLECULAR MECHANISMS OF DEVELOPMENT

Sponsored by Perinatal Research Institute and the training program in developmental and reproductive endocrinology, Children's Hospital Medical Center, Cincinnati, Ohio, and University of Cincinnati College of Medicine.

Registration Deadline: October 1

Registration Fee: Students and trainees, \$50; others, \$100. Scholarships are available to cover conference costs for selected graduate and undergraduate students.

Abstracts accepted for poster presentations. **Submission deadline is October 1**.

44th Rachford Lectures

An International Symposium

November 15 and 16, 1999

Children's Hospital Medical Center University of Cincinnati College of Medicine

Cincinnati, Ohio

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Salk Institute
James Fagin, M.D.
University of Cincinnati
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Mount Sinai School of Medicine
Christopher Glass, M.D., Ph.D.
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Harvard Medical School
Joseph Yost, Ph.D.
University of Itah



For information about registration, abstracts and student scholarships, visit: www.cincinnatichildrens.org/rachford/

Or contact: Shirley Courtney, Phone: (513) 636-4209, Fax: (513) 636-7486, E-mail: cours0@chmcc.org

FACULTY POSITIONS (NMR) STRUCTURAL BIOLOGY

SENIOR POSITION (SB99-2). Applications are invited for a tenure-track senior faculty position, Associate or Professor level, in structural biology. Preference will be given to applicants with expertise in NMR spectroscopy applied to problems of macromolecular structure. The successful candidate must have a record of research and academic productivity commensurate to academic rank and a record of having established and supported from extramural sources an independent research laboratory. The applicant is expected to apply interdisciplinary interest in continuation of research and in the teaching of graduate and undergraduate students in courses adopted by the School of Biological Sciences. New facilities and complementary expertise in crystallography and electron microscopy (see http://sgi.bls.umkc.edu) are available as well as competitive start-up financial packages.

ASSISTANT PROFESSOR (SB1). The School of Biological Sciences as part of the expansion of its structural biology program, which has been selected for comprehensive development within the school, seeks investigators with outstanding potential in any aspect of molecular or cellular structural biology to complement or expand existing activities in spectroscopy (including a new NMR facility), crystallography or microscopy. (UMKC faculty, as part of the Southeast Regional Collaborative Access Team, can use the Advanced Photon Source at Argonne National Laboratory to conduct research.) Excellent start-up package, competitive salary and state of the art instrumentation available. Successful candidates for this tenure-track position will participate in undergraduate and graduate-level instruction and must have two to three years postdoctoral experience in an appropriate field. In addition, candidates must have received graduate, and preferably undergraduate, instruction in an English-speaking environment (a seven-year residence in such environments will satisfy this requirement).

Evaluation of applications will begin November 1, 1999. Candidates should provide *curriculum vitae*, a brief statement of research interests and the names, addresses, and telephone numbers of four references to:

Search Committee, Position (specify SB99-2 or SB 1)
Office of the Dean, School of Biological Sciences
5007 Rockhill Road, University of Missouri-Kansas City
Kansas City, MO 64110-2499

An Affirmative Action/Equal Opportunity Employer

Faculty Positions in Biophysics



Washington University School of Medicine

The Department of Biochemistry & Molecular Biophysics is seeking to fill two assistant professor positions in Molecular Biophysics. The successful candidates should be able to develop independent research programs utilizing biophysical approaches to address important biological problems. We are particularly seeking individuals in two areas of research: 1) use of single molecule techniques to study the function and properties of biological molecules; and 2) use of cryoelectron microscopy to study molecular systems. Candidates should have a broad perspective with regard to the biology and biophysical properties, and be interested in applying different approaches to their studies. Applicants should submit curriculum vitae, selected reprints, a short research summary, and the names of three references to:

Kathleen B. Hall, Ph.D.

Chair, Molecular Biophysics Search Committee
Washington University School of Medicine
Department of Biochemistry and Molecular Biophysics
Box 8231, 660 S. Euclid Avenue
St. Louis, MO 63110



MOUNT SINAI

SCHOOL OF

MEDICINE

Assistant Professor of Microbiology

Mount Sinai School of Medicine is a leader in medical education and research. The Department of Microbiology is significantly expanding its research program in the area of virus-host interactions. We are currently seeking an individual who will develop a well-funded, active, independent research program. The successful candidate will join a multi-

disciplinary department focusing on molecular and genetic aspects of infectious diseases, host-pathogen interactions, and immunological host responses to infection. He or she will also participate in teaching at the graduate and medical school levels. Applicants should possess a Ph.D., M.D., or equivalent degree, and have at least two years of post-doctoral experience. A higher rank appointment will be considered under exceptional circumstances.

For consideration, please send C.V., selected reprints, names and addresses of three references, and a statement of research interest to: Chair, Search Committee, Department of Microbiology, Box 1124, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574; E-mail: micro@mssm.edu Visit the department on our website at: www.mssm.edu/micro/home-page.html We are an equal opportunity employer fostering diversity in the workplace.

SEARCH FOR DIRECTOR REOPENED THE EARTH SYSTEM SCIENCE INTERDISCIPLINARY CENTER University of Maryland

Applications are invited for the position of Director of the Earth System Science Interdisciplinary Center (ESSIC) at the University of Maryland. ESSIC was recently established by a collaborative agreement between NASA's Goddard Space Flight Center (GSFC) and the University of Maryland to carry out preeminent research and teaching programs in Earth system science (website: http://www.essic.umd.edu). The research goal of ESSIC is to expand scientific knowledge of Earth, including its land surface, atmosphere, and oceans, particulary by using satellite-based remote sensing data. Participating units at the University include the Departments of Geography, Geology, and Meteorology.

The Director will provide scientific leadership for the Center, including participation in the appointment of two additional faculty, and will manage its day-to-day operations. The appointment will be made at the rank of Professor with tenure in one of the participating departments. The Director will provide leadership in developing the research and teaching programs of the Center and will encourage collaboration among the participating departments and between the University and GSFC. The appointee will be an eminent physical scientist experienced in leading an interdisciplinary research group, with an established international reputation in some facet of Earth system science, experience with satellite-based remote sensing, and a substantial record of external research funding.

funding.

For best consideration applications should be submitted by October 15, 1999, to: Chair of the ESSIC Search Committee, Earth System Science Interdisciplinary Center, University of Maryland, Computer and Space Sciences Building, College Park, MD 20742-2465. Applicants should provide a statement describing their vision for ESSIC and how their experience and research and teaching interests contribute to this vision. Applicants should also provide a signed curriculum vitae and the names and addresses of four references. The University of Maryland is an Affirmative Action/Equal Employment Opportunity Employer.

An outstanding tenure-track opportunity is available for conducting research at the Center for Biologics Evaluation and Research (CBER). The Division of Hematology in the Office of Blood Research and Review of CBER is searching for a candidate to fill a tenure-track **STAFF FELLOW** position. The Staff Fellow is to carry out biomedical research and perform scientific review of submissions pertaining to the regulation of biological products under the purview of the division. The laboratory is located on the NIH campus in Bethesda, Maryland. An applicant must have a Doctoral degree, limited or no postdoctoral experience, and familiarity with biochemical techniques. This position is available in the Laboratory of Plasma Derivatives. The Staff Fellow will be working on oxidative reactions of hemoglobin and/or mvoglobin and the effects of nitric oxide, both *in vitro* and in cultures of endothelial cells. This position also offers the candidate an opportunity to participate in the development and approval process for hemoglobinbased blood substitutes. To apply, contact: Dr. Abdu Alayash, 1401 Rockville Pike, Suite 200N/HFM-345, Rockville, MD 20852-1448. E-mail: alayash@ cber.fda.gov.

MEDICAL WRITER

Physicians' Education Resource (PER) is seeking a Medical Writer/Editor to join its team. PER is a medical education company specializing in the field of oncology. Successful candidates will be responsible for writing manuscripts from original data, reporting highlights from cancer meetings, and editing and rewriting author-submitted manuscripts. Ph.D. in a biomedical science and experience in medical writing preferred. Send résumé to: 3535 Worth Street, Dallas, TX 75246. FAX: 214-818-7463; e-mail: angelia.gibson@perlp.com.

POSITIONS OPEN

SOY NUTRITION MOLECULAR BREED-ING PROJECT LEADER who will be responsible for coordinating and supervising several soybean projects in the quality grain improvement areas; developing new soybean cultivars with modified oil or protein quality and quantity and other seed composition characteristics via molecular breeding, in conjunction with other molecular breeding scientists, agronomists, and breeders; identifying molecular markers closely linked to quantitative trait loci (QTL) affecting protein, oil, or other seed composition traits; utilizing soybean breeding techniques including crossing, population development, line evaluation, and statistical analysis; utilizing plant biotechnology and molecular marker techniques, such as AFLPs RFLPs, SSRs, RAPDs, DAFS, DGGE, and starch and protein gel electrophoresis; developing adequate populations out of crosses between soybean cultivars; identifying genes via QTL mapping and statistical analysis; genotyping all individual progenies for a wide range of molecular markers; analyzing these same progenies for a wide range of seed composition characteristics; performing QTL analysis to identify markers closely linked to specific traits; planning all experiments, performing laboratory and related work, analyzing results, and preparing oral and written reports on the progress of the program; transferring important QTL discovered as part of program into a wide range of high-yield varieties; performing crosses for each backcrossing generation; genotyping individual plants at each generation for the presence or absence of the selected QTL; and releasing new lines with high yield and optimum seed composition. Degree requirements include a minimum of a Master's degree of science in plant and soil science, combined with one year and six months of experience in the job offered or one year and six months of experience as a Research Assistant. Work experience must have included utilizing plant biotechnology and molecular marker techniques, such as AFLPs, RFLPs, SSRs, RAPDs, DAFS, DGGE, and starch and protein gel electrophoresis; utilizing soybean breeding techniques including crossing, population development, line evaluation, and statistical analysis; and identifying genes via QTL mapping and statistical analysis Coursework must have included plant breeding, molecular genetic technique, and plant propagation. 40 hours per week, 9:00 a.m. to 5:00 p.m., \$58,944 per year. St. Louis location. Must have proof of legal authority to work permanently in the United States. Send two copies of both résumé and cover letter to: Missouri Department of Labor and Industrial Relations, Division of Employment Security, Attention: Ms. J. Gaston, 4040 Seven Hills Drive, Suite 166, Florissant, MO 63033-6700. Please include Job Number 180694. No calls. An Employer Paid Ad.

TROPICAL PLANT BIOLOGIST

The Smithsonian Tropical Research Institute (STRI), headquartered in the Republic of Panama, is offering an entry-level position for a full-time Plant Biologist. STRI offers a variety of terrestrial facilities, such as the Barro Colorado Island Nature Monument and canopy access cranes, and of marine sites, including stations on both sides of the Isthmus of Panama at Bocas del Toro, Naos and Coibita. In addition, STRI also has fully equipped molecular, paleontological, and physiological laboratories. Further, partner institutions working in conjunction with the Center for Tropical Forest Science operate 50-hectare forest dynamic plots that provide access to tropical forest sites around the world.

We seek an outstanding candidate with an active research program in tropical plant biology, broadly defined for a permanent staff appointment. This appointment has been made possible by a grant from the Andrew W. Mellon Foundation. Applications will be accepted immediately. The Committee will begin meeting in October 1999 and the position will remain open until filled. Send applications to: Chairman, Search Committee/Tropical Plant Biologist, Smithsonian Institution, Smithsonian Tropical Research Institute, Washington, DC 20560-0580. STRI is an Equal Opportunity Employer hiring without regard to race, gender, or nationality.

POSITIONS OPEN

AQUATIC ECOLOGISTS (TWO) ILLINOIS NATURAL HISTORY SURVEY

The Center for Aquatic Ecology (CAE) invites applications for two **PROFESSIONAL SCIENTIST** positions at the **ASSISTANT** or **ASSOCIATE** level. We seek candidates whose research emphasizes ecological or evolutionary processes in aquatic systems. Preference will be given to individuals with strong quantitative skills who use empirical and theoretical approaches to address basic/applied questions of broad significance at the population, community, or ecosystem/landscape level. Candidates must hold a Ph.D. in an appropriate discipline, have an outstanding record of independent research, and will be expected to develop a strong, externally funded research program. We encourage all applications, but are especially interested in research programs that emphasize primary producers, amphibians, aquatic toxicology, watershed-scale issues, or the aquatic-terrestrial interface. The Illinois Natural History Survey is an Affiliated Agency of the University of Illinois and is located on the Urbana-Champaign campus. The Center's 11 Professional Scientists conduct self-directed research on a broad range of questions in a diverse array of habitats. CAE scientists have full access to campus facilities and resources, may hold affiliate appointments in university departments, teach, and supervise graduate students. Technical questions regarding this position should be directed to: The Search Chair, Dr. Carla Cáceres, Telephone: 217-244-2139; e-mail: caceres@mail.inhs.uiuc.edu. To apply: Send cover letter, curriculum vitae, a statement of research interests, reprints of three publications, and the names, addresses, e-mail addresses, and telephone numbers of four professional references to: Susan Key, Human Resources Manager, PRF #523 Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820. Telephone: 217-244-7790; FAX: 217-333-4949. To ensure full consideration, applications should be received by October 1, 1999.

RESEARCH MOLECULAR PLANT PA-THOLOGIST. GS-11/12. A GS-11 or GS-12 Research Plant Pathologist position is available in the new state-of-the-art Dale Bumpers National Rice Research Center (DB NRRC), Stuttgart, Arkansas. The objectives of the research are to (a) devise molecular techniques for accelerated incorporation of resistance genes into genetic stocks and/or germplasm of value to the U.S. rice industry, and (b) develop and identify new sources of resistance to the major fungal diseases blast, sheath blight, Fusarium spp., and other diseases that may become important in U.S. rice production. The successful candidate will be a member of the DB NRRC team, which includes conventional rice genetics, molecular genetics, cytogenetics, molecular plant pathology, cereal chemistry, evaluation and enhancement of germplasm, physiology and control of rice weeds, and physiology and molecular biology of yield in rice. Facilities at the DB NRRC include an ABI 3700 DNA sequencer as well as conventional laboratory, greenhouse, and field equipment. Salary: GS-11: \$39,960 to \$51,946; GS-12: \$47,891 to \$62,260. For application information, Telephone: 301-504-**1482**. Applications must be postmarked by October 1, 1999. *USDA is an Equal Opportunity Employer*.

MEDICAL WRITERS

Looking for a new career opportunity, love science and medicine, but want to do more with the business side of your brain? Leading medical company based in New York City has an immediate opening for Medical Writers. Familiarity with development of biological/biomedical sciences manuscripts essential. Ph.D. or advanced degree in the biological sciences preferred. The ability to write clearly and concisely is essential. You will be expected to work on your own initiative, interface with Physicians, clients, and Program Directors. Some travel may be required. Please send résumé to: Human Resources Department, 12th Floor, 16 West 22nd Street, New York, NY 10010. FAX: 212-822-6590.

TENURE TRACK INVESTIGATOR

Two Tenure Track Investigator positions are available to study Drosophila genetics and Cell Cycle Checkpoints in the Regulation of Cell Growth Laboratory (RCGL), Division of Basic Sciences, National Cancer Institute, Frederick Cancer Research and Development Center (NCI-FCRDC) in Frederick, Maryland.

Drosophila genetics. This position requires a strong background in the use of Drosophila as a genetic system. Candidates whose research emphasizes genetic approaches to the study of cell cycle control, signaling pathways or development biology are especially encouraged to apply. The successful candidate will become part of an expanding community of Drosophila researchers within the RCGL and at the NCI-FCRDC.

Cell Cycle Checkpoints. Candidates whose research focuses on molecular mechanisms of cell cycle regulation, oncogenesis or signal transduction are encouraged to apply. However, exceptional candidates in other areas of molecular biology will also be considered.

The successful candidates for these fully funded groups will recruit and supervise a staff of several associates and will have at least two years of postdoctoral experience. The RCGL provides a highly interactive, collaborative environment, including existing groups with expertise in cell cycle regulation, tumor suppressor genes, signal transduction, regulation of gene expression and apoptosis.

If interested, please send your curriculum vitae, a one to two page statement of research interests and three letters of recommendation to Dr. Karen Vousden, Building 560, P.O. Box B, NCI-FCRDC, Frederick, MD 21702.

The National Institutes of Health is an equal opportunity employer and encourages all qualified women and minorities to apply. Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, marital status, physical or mental disability, age, sexual orientation or membership or nonmembership in an employee organization.

TOXICOLOGIST

Toxicology & Pharmacology Branch, DTP, DCTD
National Cancer Institute, National Institutes of Health
GS-0405/415/1320-13; Vacancy Announcement#: NCI-99-2328

The Toxicology & Pharmacology Branch (T&PB) of the Development Therapeutics Program is seeking candidates for the position of Staff Toxicologist. The T&PB plans and directs a collaborative, contract-supported program to conduct preclinical pharmacology and toxicology studies for anticancer and drugs. Candidates must have earned the Ph.D. degree in Toxicology, Pharmacology, Biochemistry, Chemistry or a closely related discipline; possess a working knowledge of modern toxicological/pharmacological methods of drug evaluation; and have at least 2 years of post doctoral experience in evaluating antitumor agents.

The Staff Toxicologist will be responsible for: (1) Planning, implementing, and analyzing contractor performed studies leading to the characterization of toxic effects of new anti-cancer drugs. (2) Reviewing biological, biochemical, and toxicological data prior to designing studies leading to IND submission to the FDA. (3) Summarizing all toxicology data and making recommendations for starting doses, dose escalation schemes and treatment schedules for clinical trial.

To apply for this position, please address the following rating criteria: (1) knowledge of toxicology and pharmacology study design; (2) skill in oral communication; and (3) skill in written communication.

Please submit your application/resume to: NIH/National Cancer Institute Human Resource Management & Consulting Branch, EPS, Suite 550 6120 Executive Blvd., MSC 7209, Rockville, MD 20852-7209.

For further information regarding application procedures, you may call the staffing office at 301-402-2789.

The base salary for this position ranges from \$58,027 to \$75,433. Benefits include health and life insurance options, retirement, paid holidays, and vacation leave.

Applications must be postmarked no later than 10/04/99. To be considered applicants must be U.S. citizens.

NATIONAL JEWISH Medical and Research Center

Global Leader in Lung, Allergic and Immune Diseases

Faculty Position

The Department of Immunology at the University of Colorado Health Sciences Center and National Jewish Medical and Research Center invite applications for a faculty position at the Assistant or Associate Professor level. Individuals working in Immunology or related disciplines are encouraged to apply. Candidates should have a Ph.D. and/or M.D. degree, at least two years of post doctoral experience, and a record of outstanding research. Interested individuals should send a curriculum vitae, a statement of research interests, and the names of three references to:

Drs. Philippa Marrack and John Cambier Chairs, Search Committee National Jewish Medical and Research Center 1400 Jackson Street Denver, CO 80206

The University of Colorado and the National Jewish Medical and Research Center are Affirmative Action/Equal Opportunity employers.



University of Colorado Health Sciences Center

Energy BioSystems Corporation is a biotechnology company in The Woodlands, Texas (north of Houston), specializing in the application of biotransformation systems for the fossil fuel industry. We have an immediate opening for the following:

Senior Research Scientist Molecular Genetics (Job #99-161)

Join our research team and be an integral part of our biodesulfurization program which involves the genetic engineering of improved biocatalysts through the use of mutagenesis, biodiversity and molecular evolution. Specific responsibilities include identifying important genes, gene isolation/manipulation, library construction/screening, and strain engineering. You'll also manage a group of scientists on different projects.

To qualify you must have a Ph.D. in Molecular Genetics or a related field with 5+ years experience in research or a development environment. Extensive knowledge of microbial biosynthetic/catabolic pathways, expertise in the genetic manipulation of Gram-positive and Gram-negative microorganisms, a strong record of publication and skills in all areas of molecular biology and analysis of gene function are required. Familiarity with bioinformatics highly desired. Industrial experience preferred.

Please fax or mail a resume and cover letter stating the position and job number with three relevant references to: Human Resources Coordinator, Energy BioSystems Corporation, 4200 Research Forest Drive, The Woodlands, TX 77381. Fax (281) 364-6113. No phone calls please. EOE. M/F/D/V.



HEALTH SCIENCE SPECIALIST U.S. DEPARTMENT OF VETERANS AFFAIRS MEDICAL RESEARCH SERVICE

Medical Research Service, Department of Veterans Affairs (VA) is recruiting for the position of Health Science Specialist in the Program Management Section, located at VA Headquarters, Washington, D.C. The Health Science Specialist will be programmatically responsible for portfolio management and administration of VA research related to hematology and oncology. Candidates must have a Ph.D. degree with a research background in a relevant area. Experience in grant writing and/or review is desirable. Applications will only be accepted from U.S. citizens. Position is at the GS-13 level. Benefits package and limited relocation assistance available. Applicants should send recent curriculum vitae and a letter summarizing research and administrative experience to: Director, Medical Research Service (121E), VA Headquarters, 810 Vermont Avenue N.W., Washington, DC 20420. Applications will be accepted until October 1, 1999 For further information, contact: Peggy Swoveland, Ph.D., Telephone: 202-408-3612; e-mail: peggy. swoveland@mail.va.gov. Equal Opportunity Employer.

RESEARCH SCIENTIST

A position is immediately available to study the regulation and functions of signaling components and novel genes using *in vitro* and *in vivo* model systems. Documented experience in molecular biology and mouse genomics or mammary gland biology is desirable. The candidate should have a Ph.D. with two years of related experience. *Must be able to provide eligibility to work in the United States.* Highly competitive salary. For immediate consideration, send curriculum vitae and contact information for three references to:

Rakesh Kumar, Ph.D.
Professor of Medicine and Biology
Cell Growth Regulation Laboratory, Box 36
University of Texas
M. D. Anderson Cancer Center
1515 Holcombe Boulevard
Houston, TX 77030-4095

The University of Texas M. D. Anderson Cancer Center is an Equal Employment Opportunity Employer and a smokefree environment. Women and minority candidates are encouraged to apply.

THE UNIVERSITY OF FLORIDA COLLEGE OF MEDICINE

Seeks an ASSISTANT/ASSOCIATE SCIEN-TIST in the Department of Medicine, Division of Pulmonary Medicine. Ph.D. degree required with a minimum of seven years of experience that includes endothelial cell biology, membrane biology, the pathophysiology of hypoxia, nitric oxide biology, molecular biology, and experience with immunoblot and immunodetection methods and with publications in these areas in peer-review scientific journals. Qualified candidates must have experience with tissue culture and with isolating and purifying plasma membranes. This is a full-time non-tenure-track position. Salary and benefits commensurate with experience. Recruiting deadline: October 1, 1999. Anticipated start date: December 1, 1999. Please submit curriculum vitae and other information to: Dr. Jawaharlal Patel, Research Service (151), VA Medical Center, 1601 S.W. Archer Road, Gainesville, FL 32608-1197. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to do structural and functional studies on newly cloned nucleolar RNA helicase. It is a multifunctional enzyme that unwinds a double-strand RNA, introduces secondary structure to a single-strand RNA, and hydrolyzes ATP. This is a 5-year project funded by the National Institutes of Heath. Applicants must have strong molecular biology background. Experience in RNA and protein biochemistry is preferred. Send curriculum vitae and names of three references to: Dr. Ben Valdez, Department of Pharmacology, Baylor College of Medicine, Houston, TX 77030. E-mail: bvaldez@bcm.tmc.edu. Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.

POSITIONS OPEN



SCIENTISTS

Message Pharmaceuticals, Inc. is a recently established biotechnology company focused on discovering small molecules that regulate protein expression at the posttranscriptional level. The company currently has openings at the following levels: SENIOR SCIENTIST, cellular screening. Requires a Ph.D. and three to five years of pharmaceutical or biotechnology company experience in developing and running cellular screening assays. Knowledge of high-throughput screening instrumentation is beneficial. SCIENTIST. Requires a M.S. or Ph.D. degree with experience in cellular and molecular biology to carry out studies of posttranscriptional gene regulation. Experience with RNA essential. Send curriculum vitae to: Message Pharmaceuticals, Inc., 30 Spring Mill Drive, Malvern, PA 19355. FAX: 610-695-0957.

POSTDOCTORAL POSITION available immediately for NEUROSCIENTIST to study effects of abused drugs on mammalian central nervous system transcription factor and neuropeptide gene expression. Opportunity to learn/apply molecular skills to biochemical neuroanatomy/pharmacology of limbic/basal ganglia systems in dynamic neuroscience environment. Salary commensurate with experience and NIH guidelines. Send curriculum vitae, statement of research interests, and list of three references to: Jacqueline F. McGinty, Ph.D., Department of Physiology and Neuroscience, 167 Ashley Avenue, Suite 607, Medical University of South Carolina, Charleston, SC 29425. E-mail: mcginty@musc.edu; website: http://www2.musc.edu/PGY/PGY.html. Affinnative Action/Equal Employment Opportunity.

POSTDOCTORAL POSITION in ES cell gene targeting. We are studying ES cells, which are efficiently differentiated into neurons and glia in vitro. These are used to study basic developmental mechanisms and transplant approaches to spinal cord injury and other neurological diseases. This project seeks to streamline gene targeting in ES cells and use the improved methodology to produce an array of targeted ES cell lines (knockouts, knock-ins, regulatable expression of cDNAs). Familiarity with recombinant DNA techniques is essential. Send curriculum vitae to: Dr. David Gottlieb, Department of Anatomy and Neurobiology, Box 8108, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, MO 63110. E-mail: gottlied@thalamus.wustl.edu.

POSTDOCTORAL FELLOWS LABORATORY ASSISTANT HARVARD MEDICAL SCHOOL

We are looking for Researchers with a passion for one of the hottest fields in biology: aging. We utilize yeast, worm, and mammalian systems to investigate telomere dynamics, DNA break repair, and the premature aging disease Werner syndrome. The newly built laboratory is well equipped, spacious, and centrally located. Molecular biology experience essential. Send curriculum vitae plus three reference letters to: Dr. D. Sinclair, Department of Pathology, 200 Longwood Avenue, Boston, MA 02115. Website: www.hms.harvard.edu/pathol/sinclair/index.html.

POSTDOCTORAL FELLOW for beginning of 2000 to work on fundamental approaches to the molecular therapeutics of cystic fibrosis. Applicants should have experience in biosynthetic processing and intracellular trafficking in the secretory pathway. Expertise required in molecular biology, membrane glycoprotein biochemistry, or ion channel structure/function. Please send curriculum vitae and the names and addresses of three references to: John R. Riordan, Ph.D., Department of Biochemistry and Molecular Biology, Mayo Clinic Scottsdale, 13400 East Shea Boulevard, Scottsdale, AZ 85259. Mayo Clinic Arizona is an Affirmative Action Employer and Educator.

POSITIONS OPEN

POSTDOCTORAL POSITION IN CELL SIGNALING AND MOLECULAR BIOLOGY

A position is available to study regulation of the Ras superfamily of signaling proteins by posttranslational modification/prenylation using gene knockout technology. A Ph.D. and experience in molecular biology are essential. The position is in the laboratory of Ishaiahu Shechter, Ph.D., at the Uniformed Services University of the Health Sciences (USUHS) in Bethesda, Maryland. USUHS is located on a wooded campus near the National Institutes of Health and provides an extremely supportive academic environment. A description of our research program can be found at website: gause.usuhs.mil/mcb/faculty. html. Please send curriculum vitae, cover letter with statement of research interests, and contact information (including e-mail addresses), for three references to: Human Resources Department, Attn: #2980586, Henry M. Jackson Foundation for the Advancement of Military Medicine, 1401 Rockville Pike, Suite 600, Rockville, MD 20852. Affirmative Action/Equal Opportunity Employer.

RESEARCH ENTOMOLOGIST/RESEARCH MOLECULAR BIOLOGIST. GS-414/401-12/13. The USDA, Agricultural Research Service, Northern Plains Agricultural Research Laboratory in Sidney, Montana is seeking a Pathologist to conduct research on the biological control of grasshoppers. A Ph.D. in entomology, microbiology, pathology, or related science with knowledge of invertebrate pathology is desired. This is a permanent appointment and U.S. citizenship is required. Salary is commensurate with experience (\$47,891 to \$74,035 per annum). For more information contact: Ms. Charlotte Anderson, Telephone: 406-482-9432; e-mail: canderso@sidney. ars.usda.gov. Or see the vacancy announcement (#ARS-X9W-9406) on our website: http://www.ars.usda.gov. Applications must be postmarked by September 24, 1999. The USDA is an Equal Opportunity Provider and Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION available for an NIH-funded program to study the role of ion-channels and neurotransmitters in retinal synaptic transmission using electrophysiologic and imaging techniques. Experience in patch-clamp electrophysiology desired. Send curriculum vitae, statement of research experience, and names of three references to: Dr. Zhuo-Hua Pan, Department of Anatomy and Cell Biology, Wayne State University School of Medicine, 540 East Canfield Avenue, Detroit, MI 48201. E-mail: zhpan@med.wayne.edu.

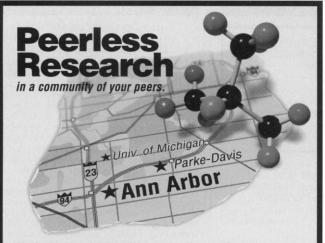
Wayne State University is an Equal Opportunity/Affirmative Action Employer. All buildings, structures, and vehicles at WSU are smoke-free. Wayne State University—people working to provide quality service.

POSTDOCTORAL POSITION SEOUL NATIONAL UNIVERSITY National Creative Research Initiative Center for Genetic Reprogramming

Position immediately available to study neural genes isolated from enhancer-trap screening in Korea. Expertise in *Drosophila* neurobiology and/or signal transduction are preferred. Competitive salary, health insurance, and funds to participate in international symposia will be provided. Send curriculum vitae and two references to: Dr. Jeongbin Yim, Department of Microbiology, Seoul National University, Seoul 151-742 Korea. FAX: 02-877-5578; e-mail: jyim@plaza.snu.ac.kr.

ASSISTANT MEMBER POSITION TAMPA BAY RESEARCH INSTITUTE

Available in the Laboratory of Virology to study the molecular biology of the human viruses (Herpes and Hepatitis C). Candidates with a Ph.D. or M.D.-Ph.D. and experience in molecular biology are encouraged to apply. Applicants should send a curriculum vitae, research goals, and three references to: Chairman, Search Committee, Tampa Bay Research Institute, 10900 Roosevelt Boulevard, St. Petersburg, FL 33716.



Parke-Davis, a division of Warner-Lambert, is devoted to discovering, developing, manufacturing and marketing quality pharmaceutical products. We're known throughout the industry for our impressive track record of innovations -innovations that would never have come about without our world-class scientists and our state-of-the-art research facility. And, should you choose to take advantage of one of the following opportunities, you'll be in excellent company - the vibrant ANN ARBOR, MI. environment you'll share with your peers is as intellectually stimulating as it is attractive.

CHEMISTRY Research Associate

Job Code: RJB-99596SC

We seek a group leader in Software and Hardware applications with demonstrated ability to organize and engineer scientific software for an experienced team of Computer-Assisted Drug Design scientists. We are working with state-of-the-art hardware and software for molecular modeling, database analyses, computational chemistry, structure-based drug design, protein crystallography, and structural bioinformatics.

A combination of BS, MS or Ph.D. in Computer Sciences and Chemistry is required, with a minimum of 6 years of research and professional experience in scientific computing and software project management. Demonstrated experience with IRIX- and LINUX-based workstations, programming skills and knowledge in C, C++, Perl and Web-based technology are a must. Familiarity with the scientific applications is desirable.

CELL BIOLOGY Assistant Scientist

Job Code: CJM-99297SC

We have a position available in the Department of Cell Biology for a highly-motivated individual with a background in molecular biology, cellular biology, biochemistry and/or animal physiology for research in the areas of hormone and growth factor signaling and oncogenesis. Candidate should possess a BS or MS degree and have previous experience in discovery research.

We offer competitive salaries, outstanding benefits, and an environment conducive to professional growth. We have the above opportunities in ANN ARBOR, MI. For confidential consideration, please forward your resume indicating Job Code, to: Parke-Davis, 2800 Plymouth Road, Ann Arbor, MI 48105. Fax: (734) 622-7617. E-mail: humanresources.resume@wl.com



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INTERNATIONAL OLYMPIC COMMITTEE

IOC Medical Commission

Call for Research Proposals on Sports Drug Testing

In accordance with the goals of the IOC to promote the fight against Doping in Sport, a Call for Research Proposals on the specific area of the detection of the administration of Erythropoietin (EPO) and human Growth Hormone (hGH), to be co-financed by the IOC is established.

The application for a proposal must include, at least:

Title
Summary
Duration of the Project
Detailed Objectives
Complementarity with previous or simultaneous
efforts

Project Workplan including

- -Researchers Involved (individual signatures, brief cv)
- -Detailed description of Tasks involved
- -Time-diagram for Tasks and Manpower
- -Deliverables along the project
- -Key decision points along the project
- -Respect of ethical/environmental aspects

Partnership (groups involved and tasks associated)
Expected robustness (technical, legal) of the Outcomes
Detailed budget of the Project

- -Distribution by Tasks and Partners
- -Existing or expected co-financing
- -Funding requested to this Call

Project management and exploitation Bibliographic references

The proposals, to be submitted before the deadline date 30th September 1999, will be evaluated by an "ad hoc" independent Committee, whose conclusions will be addressed to the IOC Medical Commission for further recommendation to the IOC Executive Board.

Applications must be submitted (six copies) to the following address:

International Olympic Committee, Medical Commission, Château de Vidy, C.P. 356, 1007
Lausanne, Switzerland.

For more information, please go to the website: www.olympic.org

POSTDOCTORAL RESEARCH ASSOCI-ATE position available immediately to study molecular aspects of an adhesin of enterotoxigenic E. coli as it relates to structural evolution and function. Interested candidates should have a Ph.D. in molecular biology, microbiology, or a related field, and a strong background in molecular biological techniques substantiated by publication in an internationally recognized journal. Effective interpersonal, and written and oral communication skills are required. Send curriculum vitae, a statement of research experience, and the names and addresses of three professional references by postal service or FAX to: Dr. David Francis, Department of Veterinary Science, South Dakota State University, Brookings, SD 57005-1396. FAX: 605-688-6003; e-mail (inquiries only): david_francis@ sdstate.edu. Applications accepted until October 15, 1999, or until a suitable candidate is found. SDSU is an Affirmative Action/Equal Employment Opportunity Employer and encourages applications from women and minorities. ADA Accommodations: Telephone 605-688-4493; TTY: 605-688-4394.

POSTDOCTORAL FELLOWSHIP IN CANCER BIOLOGY STANFORD UNIVERSITY School of Medicine

A Postdoctoral position is available to study the role of the NBS1 gene, mutated in patients with Nijmegen Breakage Syndrome, in DNA damage response and in genomic instability. The successful candidate is expected to be highly motivated and the opportunity to develop an independent research project is given. Experience in molecular biology is a requirement and experience in protein purification and/or FISH techniques are considered a plus.

Please send curriculum vitae to: Cordula Kirchgessner, Ph.D., Stanford University School of Medicine, Department of Radiation Oncology, Cancer Biology Research Laboratory, GK-207, Stanford, CA 94305-5468.

Stanford University is an Equal Opportunity Employer.

A POSTDOCTORAL FELLOWSHIP position is available in a receptor biology/neuro-oncology laboratory to investigate molecular mechanisms of signal attenuation in erbB-containing cells. Emphasis will be placed on signaling in normal and transformed astrocytes, with a particular focus on cell survival pathways. Candidates must have U.S. citizenship/permanent residency with experience in biochemical and molecular biology techniques. Interested candidates should send their curriculum vitae with names of two references to: Dr. Donald M. O'Rourke, Departments of Neurosurgery and Pathology and Laboratory Medicine, 288 John Morgan Building, 36th and Hamilton Walk, University of Pennsylvania School of Medicine, Philadelphia, PA 19104. Email: orourked@mail.med.upenn.edu; Telephone: 215-898-2871; FAX: 215-898-2401.

POSTDOCTORAL POSITIONS SUGEN, INC.

We seek highly motivated individuals with strong cellular and/or molecular biology skills to join our group researching the role of cytoplasmic tyrosine kinases in growth control. Please send your curriculum vitae and three letters of recommendation to: Dr. Sara Courtneidge, SUGEN, Inc., 230 East Grand Avenue South, San Francisco, CA 94080-4811. E-mail: sara-courtneidge@sugen.com. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS in biochemistry/molecular biology at Wayne State University. The research involves genomics-based biopathway reengineering for production of biochemicals and pharmaceuticals. Send curriculum vitae to: Dr. P. George Wang, 373 Chemistry, Wayne State University, Detroit, MI 48202. For more information see website: alien.chem.wayne.edu. Wayne State University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

POSITIONS OPEN

INTERESTED IN CLINICAL OR POSTDOCTORAL RESEARCH TRAINING?

The National Institutes of Health has both! For more information, visit our website which lists an array of clinical and postdoctoral opportunities, including tenure-track positions.

http://www.training.nih.gov
The NIH is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITIONS ENZYME STRUCTURE AND MECHANISM UNIVERSITY OF MICHIGAN

Postdoctoral positions (three) are available immediately to study various aspects of enzyme structure/function

One position is available to study the structure and mechanism of coenzyme B_{12} -dependent isomerases, in work aimed at understanding how enzymes generate and control free radicals. For fuher information contact: **Dr. Neil Marsh, e-mail:** nmarsh@umich.edu; website: http://www.umich.edu/~michchem/faculty/marsh/.

Two positions are open in Prof. George Kenyon's group. These will involve mechanistic studies on creatine kinase or structure/function studies on thiamine diphosphate-dependent enzymes such as benzoylformate decarboxylase. For further information contact: Dr. Michael McLeish, e-mail: mcleish@umich.edu; website: http://www.umich.edu/~pharmacy/faculty/kenyon/.

Experience in protein purification and steady-state enzyme kinetics is essential, while experience in one or more of the following would be an advantage: site-directed mutagenesis; molecular modeling; presteady state kinetics; NMR spectroscopy; mass spectrometry; microcalorimetry; synthesis of isotopically labeled compounds.

Please send applications, including curriculum vitae, indication of position of interest, and the names of three referees to: Ms. Leah Peters, College of Pharmacy, University of Michigan, 428 Church Street, Ann Arbor, MI 48109. FAX: 734-615-3079; e-mail: lgsp@umich.edu.

POSTDOCTORAL POSITIONS VERTEBRATE HOMEOBOX GENES IN DEVELOPMENT AND ONCOGENESIS

Projects include roles of homeobox genes in cellular proliferation, differentiation, and cell cycle control (M.C.B. 18:6044, 1998), neuronal development (J. Neuroscience 18:8322, 1998), and prostate development and cancer (Genes Dev. 13:966, 1999). Qualified individuals should have prior experience in molecular and/or developmental biology. Please send curriculum vitae and three letters of reference to: Cory Abate-Shen, Ph.D., Center for Advanced Biotechnology and Medicine, University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School, 679 Hoes Lane, Piscataway, NJ 08854. FAX: 732-235-4850; e-mail: abate@cabm.rutgers.edu.

BIOLOGICAL AND PHYSICAL SCALING

POSTDOCTORAL COLLABORATOR with interests in body size and allometry, networks, and/or general scaling phenomena. Desirable background might include microbiology, biological physics, metabolism, ecology, or mathematics modeling. One-year, renewable joint appointment at the University of New Mexico or Santa Fe Institute starting January 1, 2000. Send letter of inquiry and research interests, curriculum vitae, and list of references to: J. H. Brown, Department of Biology, University of New Mexico, Albuquerque, NM 87131. E-mail: jhbrown@unm.edu. Or: G. B. West, Santa Fe Institute, 1399 Hyde Park Road, Santa Fe, NM 87501. E-mail: gbw@santafe.edu.

UNM and SFI are Equal Opportunity Employers.

POSITIONS OPEN

DEPARTMENT OF MEDICINE DIVISION OF ENDOCRINOLOGY, DIABETES, AND METABOLISM

One POSTDOCTORAL FELLOWSHIP position at the level of VISITING POSTGRADUATE RESEARCHERS is available in the Division of Endocrinology, Diabetes, and Metabolism, University of California, Irvine. The starting date is November 1, 1999. Requirements include an M.D., Ph.D., or M.D.-Ph.D. degree and experience in various biochemical, molecular, and cellular biological techniques. The successful candidate will focus on the role of growth factors and their receptors in pancreatic acinar cell physiology. Salary commensurate with training and experience. Interested applicants, please send a curriculum vitae and names and addresses of three recommendations to: Dr. Murray Korc, Chief, Division of Endocrinology, Diabetes and Metabolism, Department of Medicine, Med Sci I, C240, Irvine, CA 92697. The University of California is an Equal Opportunity Employer, committed to excellence through diversity.

POSTDOCTORAL POSITION YEAST CELL BIOLOGY

A Postdoctoral position is available immediately to conduct research on the role in the mating response in S. cerevisiae of a pheromone-induced yeast cell wall glycoprotein, Fig2p (Erdman, S. et al., J. Cell Biol. 140:461–483, 1998). Candidates should have a background in either molecular genetics or in glycoprotein biochemistry/cell biology. The fungal cell wall is a primary target of antifungal drug development efforts and aspects of the research will incorporate techniques that are presently in high demand in the biomedical sciences, including phage-mediated peptide selections and microarray analyses. Interested applicants should send a cover letter and curriculum vitae, including the names of three references, to: Dr. Scott E. Erdman, Department of Biology, Syracuse University, 130 College Place, Syracuse, NY 13244-1220.

POSTDOCTORAL POSITION available immediately for NIH-funded research on cross talk between p53-regulated cell cycle checkpoint pathway and estrogen signaling pathway in regulating generanscription. Experience in molecular biology and biochemistry desired. Highly motivated individuals enthusiastic to work in the area of transcriptional regulation (Nature 374:657; J. Biol. Chem. 273:17303) may send curriculum vitae along with addresses and telephone numbers of three referees to: Gokul M. Das, Ph.D., Department of Cellular and Structural Biology, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284. FAX: 210-692-7502; e-mail: dasg@uthscsa.edu. The University of Texas is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available to study (i) the chaperone action of small heat shock proteins or (ii) the folding, fibrillogenesis, and membrane interactions of the recombinant prion protein Background in protein chemistry, biophysical/spectroscopic methods, and/or molecular biology (DNA manipulation, site-directed mutagenesis, expression of recombinant proteins) required. Send curriculum vitae to: W. K. Surewicz, Ph.D., Department of Pathology, Case Western Reserve University, 2085 Adelbert Road, Cleveland, OH 44106. Email: wks3@pop.cwru.edu.

POSTDOCTORAL POSITIONS in protein structural biology are available immediately in a leading laboratory on protein folding at the Department of Biochemistry and Biophysics, University of Pennsylvania. Desirable background includes experience in one or more of the following: structure/folding; mutation/cloning; NMR; hydrogen exchange. Salary is very competitive. Applicants should e-mail a letter of interests and curriculum vitae to: Prof. Walter Englander, e-mail: walter@hx2.med.upenn.edu.

Equal Opportunity/Affirmative Action Employer.

The Faculty of Science of the University of Zurich invites applications for a



PROFESSORSHIP IN PLANT SYSTEMATICS

The position includes the directorship of the University Botanic Gardens and the Institute of Systematic Botany. The present director, Professor Christopher Cook, will retire in February 2000. The duties also include teaching at undergraduate and graduate levels. The successful candidate will be expected to establish a research group; preferences will be given to those working around the level of species or in the field of evolutionary reproductive biology. There are no restrictions concerning the plant groups to be investigated. Zurich offers extensive plant collections in the botanic gardens and herbarium, and excellent library and laboratory facilities. The present research can be consulted on our website (http://www.unizh.ch/bguz). The gardens and institute are partly privately endowed. It is expected that the successful candidate should acquire proficiency in the German language within two years.

Applications, with curriculum vitae, record of teaching and research activities, publication list, and copies of the 3 most important publications should be sent by October 31, 1999 to:

Prof. Dr. Vincent Ziswiler, Dean

Mathematisch-naturwissenschaftliche Fakultät der Universität Zürich-Irchel

Winterthurerstrasse 190, CH-8057 Zürich

phone: 0041 1 635 40 05, fax: 0041 1 635 68 06

e-mail: reber@zuv.unizh.ch

for further information:

Prof. Dr. Peter K. Endress Institut für Systematische Botanik der Universität Zürich Zollikerstrasse 107, CH-8008 Zürich

phone: 0041 1 634 84 20 (11), fax: 0041 1 634 84 03,

e-mail: pendress@systbot.unizh.ch

DIRECTOR, MRC TOXICOLOGY UNIT



We invite applications for this premier post in Toxicology. The Director will set and govern Unit strategy and, through Senior MRC Scientists, manage research programmes aimed at improving our understanding of toxicological mechanisms and their implications for human disease and health risk. The Director and Unit scientists are key advisors to MRC and Government on toxicology issues.

The Director has responsibility for over 130 scientists and administrative staff, including Senior Scientists at Professorial level or equivalent, many of whom have established international reputations. In recent years, Unit staff have published novel research on toxicological mechanisms in cancer, neurotoxicology, pulmonary toxicology, biomonitoring, molecular interactions and genetic susceptibility to xenobiotics. The Unit is internationally recognised for attracting and training highly talented postdoctoral scientists in toxicology.

The Unit is located at the University of Leicester and proximal to the University Medical School and departments of bioscience. This provides excellent opportunities for developing clinically relevant collaborations and establishing links with other scientific disciplines, such as specialists in structural biochemistry, genetics, cell signalling and apoptosis.

We seek an internationally renowned scientist with the intellectual breadth of understanding and scientific rigour to integrate toxicology-related research from the molecular level through to human risk assessment and safety. You will be expected to develop and integrate the Unit's research programme and to encourage effective collaborations with other research groups both within and outside Leicester. Continuing leadership of your own research programme will be supported and necessary facilities provided for this.

———— For further information and to discuss your interest in strict confidence, please contact

Dr Kevin Young, Euromedica plc. 7 Heron Quays, Docklands, London E14 4JB. UK Telephone 44-(0)171 536 7950. Fax 44-(0)171 538 8362. E-mail: kevinyoung@euromedica.com

POSTDOCTORAL POSITIONS JAK-STAT SIGNALING AND INFLAMMATION

Postdoctoral positions are available in the Departments of Medicine and Immunology to study novel inducible mechanisms (some of which have not yet been published) of inhibition of cytokine signaling and the Jak-STAT pathway. Projects will address molecular inhibitory mechanisms in the context of pathogenesis of human autoimmune diseases, such as rheumatoid arthritis, and approaches will include genetic modification of primary cells obtained from patients. Molecular biology experience is preferred, and experience with retroviral or adenoviral transduction systems will be helpful. Please send curriculum vitae, a brief description of research experience, and names and telephone numbers of three references to: Dr. Lionel B. Ivashkiv, Cornell University Medical College, 535 East 70th Street, New York, NY 10021. FAX: 212-717-1192; e-mail: ivashkivl@ hss.edu.

Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW POSITION HUMAN GENETICS MICROARRAY TECHNOLOGY

Candidate will examine gene expression in the human genetic disease facioscapluhumeral muscular dystrophy (FSHD) while conducting a comparative study of microarray technologies (GeneChips, filters, glass slides). Use of different technologies will require that the candidate spend one to two months of each year at Los Alamos National Laboratory. Experience with gene expression analysis, array technology, and/ or bioinformatics is desirable. Attractive salary and benefits package commensurate with experience. Send curriculum vitae and names of three references to: Dr. Sara Winokur, Department of Biological Chemistry, 240D Med Sci I, University of California, Irvine, CA 92697-1700. FAX: 949-824-2688; e-mail: swinokur@telomere.hsis.uci.edu. UCI is an Equal Opportunity Employer committed to excellence through diversity.

POSTDOCTORAL POSITION available in molecular mechanisms and adrenal cortical growth. M.D., Ph.D., or M.D.-Ph.D. required with particular experience in molecular biology and whole-animal studies and an interest in endocrine organogenesis and cancer. Expertise in cell culture, gene regulation, nuclear receptors, expression screening, target genes, protein interactions, transgenic models is desirable. Please contact: Gary Hammer, M.D., Ph.D., University of Michigan Medical Center, 1500 East Medical Center Drive, 3920 Taubman Center, Box 0354, Ann Arbor, MI 49108-0354. Telephone: 734-936-5504; FAX: 734-936-9240.

Two POSTDOCTORAL POSITIONS are available immediately to study the cytolethal distending toxin from the periodontal pathogen, Actinobacillus actinomycetemconitans (Infect. Immun. 67:1227, 1999). Positions are minimum of three years on NIH grant. Applicants nust have a Ph.D. and experience in bacterial genetics and/or cell biology. Please send curriculum vitae and the names of three references to: Dr. Joseph DiRienzo, Department of Microbiology, School of Dental Medicine, University of Pennsylvania, 4001 Spruce Street, Philadelphia, PA 19104. FAX: 215-898-8385; e-mail: dirienzo@pobox.upenn.edu.

POSTDOCTORAL FELLOW to join a team of scientists and clinicians in cancer gene/immunotherapy at Karmanos Cancer Institute at Wayne State University. U.S. citizen/resident. Background in molecular biology/immunology. Independent project with opportunity to collaborate. Contact: Wei-Zen Wei, Ph.D., Associate Professor, Karmanos Cancer Institute, 110 East Warren Avenue, Detroit, MI 48201. Equal Opportunity Employer/Minorities/Females.

Wayne State University School of Medicine, the country's largest single-campus medical school, is an Equal Opportunity' Affirmative Action Employee.

POSITIONS OPEN

POSTDOCTORAL RESEARCH FELLOW

Two Postdoctoral Research and Training positions are available in the laboratories of the Atlantic Research Centre (associated with the Departments of Pediatrics and Biochemistry and Molecular Biology, Dalhousie University, and the IWK Grace Health Centre), Halifax, Nova Scotia. Research at the Centre is focused on two general, interrelated areas: (1) signal transduction mechanism, lipid second messengers, and protein kinases and (2) biochemical and genetic studies of membrane lipid and protein metabolism and trafficking using normal, mutant (e.g., Niemann-Pick disease and peroxisomal disorders), and transformed cell lines in culture and yeast.

Experience with molecular biology, protein characterization, immunochemistry, and lipid techniques is an asset. Candidates should have a Doctoral degree in biochemistry, chemistry, or biology and relevant research experience at the postgraduate level. Salary will be commensurate with the Medical Research Council of Canada salary scales for Postdoctoral Fellows. Reply with a curriculum vitae and names, addresses, and telephone numbers of three referees to:

Dr. Harold W. Cook, Director
Altantic Research Centre
Dalhousie University
Room C-304, CRC
5849 University Avenue
Halifax, Nova Scotia B3H 4H7 Canada
Telephone: 902-494-7066
FAX: 902-494-1394
E-mail: h.cook@dal.ca

Postdoctoral study of the HIV Nef protein. A POSTDOCTORAL POSITION is available to study the mechanism of action of the HIV Nef protein, an important viral virulence factor. Techniques of cellular and molecular biology will be used to investigate how Nef modulates intracellular protein sorting to down-regulate cell surface receptors and to enhance viral replication. Applicants should have strong skills in molecular biology and an interest in viral-host cell interactions. Please include a curriculum vitae, a statement of research accomplishments and interests, and the names of three references in your response to: Dr. John C. Guatelli, Veterans Medical Research Foundation (Job #JG-PDI), 3350 La Jolla Village Drive (151-A), San Diego, CA 92161. Applicants must be U.S. citizens or permanent residents. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION is available immediately to study MAP kinase signaling during the cell cycle (J. Cell Biol. 142:1533–1545, 1998). Areas of investigation include identifying proteins targeted by MAP kinases, determining the mechanisms of protein kinase activation, and characterizing the subcellular localization of proteins during the cell cycle. Candidates should have a Ph.D. or M.D. equivalent in biochemistry, cell biology, or molecular biology. Salary is commensurate with experience. Send curriculum vitae and contact information for three references to: Paul Shapiro, Ph.D., Department of Pharmaceutical Sciences, Room 222, University of Maryland School of Pharmacy, 20 North Pine Street, Baltimore, MD 21201. The University of Maryland is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION to study the function and structure of the hyperpolarization-activated pacemaker channels. Research involves patch clamp studies of the cloned HCN family of pacemaker channels expressed in cell lines and biochemical analysis of interactions of pacemaker channels with signal transduction cascades. The role of pacemaker channels in neuronal oscillatory activity is also studied in hippocampal slices. Experience in patch clamp recording or protein biochemistry is necessary. Send curriculum vitae and names of three references to: Dr. Steven A. Siegelbaum, Center for Neurobiology and Behavior, Columbia University, 722 West 168th Street, New York, NY 10032. E-mail: sas8@columbia.edu; FAX: 212-795-7997. We take Affirmative Action toward Equal Employment Opportunity.

POSITIONS OPEN

MASSACHUSETTS GENERAL HOSPITAL HARVARD MEDICAL SCHOOL CUTANEOUS BIOLOGY RESEARCH CENTER

A POSTDOCTORAL RESEARCH POSITION is available to study the mechanisms regulating skin and mammary gland development. Our laboratory uses mouse models to investigate the control of cell division and differentiation, epithelial/mesenchymal interactions, and tumor formation. Applicants should have a Ph.D. or M.D.-Ph.D. as well as experience in molecular biology. Send curriculum vitae and the names of three references (including addresses and telephone numbers) to:

Janice L. Brissette, Ph.D.
Cutaneous Biology Research Center
Massachusetts General Hospital East
Building 149, 13th Street
Charlestown, MA 02129
Website: http://cbrc-a12.mgh.harvard.edu

The MGH/Harvard CBRC is a committed Equal Opportunity/Affirmative Action Employer. Minorities, women, disabled, and veterans are encouraged.

POSTDOCTORAL POSITIONS IMMUNOLOGY AND CELL BIOLOGY

Several Postdoctoral positions are available immediately in the Laboratory of Immune Cell Biology (LICB) in the National Cancer Institute (NCI), National Institutes of Health (NIH). The focus of ongoing work is apoptosis and signal transduction, with special emphasis on these processes in T cell development and function. Applicants should have an M.D. or a Ph.D. Well-qualified applicants with a strong background in immunology and/or cell biology should send a curriculum vitae, bibliography, and three letters of reference to: Jonathan D. Ashwell, Building 10, Room 1B-40, NIH, 9000 Rockville Pike, Bethesda, MD 20892. FAX: 301-480-1550; e-mail: jda@box-j.nih.gov. The NIH is an Equal Opportunity Employer.

THE HEISER PROGRAM FOR RESEARCH IN LEPROSY AND TUBERCULOSIS

Beginning POSTDOCTORAL RESEARCH FELLOWSHIPS in leprosy and tuberculosis available in amounts up to \$28,000 per year, plus other allowances, and Research Grants in leprosy only in amounts up to \$30,000. Applicants should have M.D., Ph.D., or equivalent degree. Application deadline February 1, 2000, for awards to be activated July through December 2000. For information and forms write: The Heiser Program, 450 East 63rd Street, New York, NY 10021. FAX: 212-688-6794.

RNA MOLECULAR BIOLOGY

POSTDOCTORAL POSITION available to investigate mechanisms of posttranscriptional gene regulation, including mRNA degradation, translational control, or the structure and function of the HIV Rev protein. Molecular biological, biochemical, genetic, and crystallographic strategies will be used. Website: http://saturn.med.nyu.edu/BelascoLab/. Send curriculum vitae, a brief summary of research experience, and the names of two references to: Dr. Joel Belasco, Skirball Institute, New York University School of Medicine, 540 First Avenue, New York, NY 10016.

POSTDOCTORAL POSITIONS are now available to study the pathogenesis of multiple sclerosis and its animal model, EAE, in the Neuroimmunology Laboratory at University of Texas Southwestern Medical Center. Experience in molecular biology or cellular immunology preferred. Send curriculum vitac, statement of research interests, and three references to: Michael K. Racke, M.D., Department of Neurology, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9036. E-mail: mracke@mednet.swmed.edu. UT Southwestern is an Equal Opportunity/Affirmative Action Employer.



Max Planck Institute for Demographic Research

Directors: Prof. James W. Vaupel, Ph.D. and Prof. dr. philos. Jan M. Hoem (as of 1 Oct. 1999)

The Laboratory of Contemporary European Fertility and Family Dynamics at the Max Planck Institute for Demographic Research, headed by Prof. Jan M. Hoem, is seeking to fill the following positions:

Research Scientists

Applicants should have completed a Ph.D. degree in demography or a related subject (statistics, economics, quantitative sociology, applied mathematics, etc.) within the past decade. Knowledge of statistical modeling and the ability to conduct both theoretical and applied demographic research are required. The salary for this position will be at the BAT-O IIa/Ib level.

Doctoral or postdoctoral fellows

Applicants should have completed a master's degree or a Ph.D. in demography or a related subject (statistics, economics, quantitative sociology, applied mathematics, etc.).

For further information, please access http://www.demogr.mpg.de. Applications from women are encouraged. Preference will be given to disabled persons, all else being equal. Inquiries and applications (including CV and selected publications) should be sent by 1 October 1999 to:

Max Planck Institute for Demographic Research

Attn.: Adelgunde Paetrow Doberaner Straße 114 D-18057 Rostock - Germany



DIRECTOR

CABI Bioscience Centre, Switzerland

We seek an experienced scientist with strong leadership and managerial capabilities to join our management team as the Director of our Centre in Switzerland.

The Centre currently focuses primarily on the biological control of invasive alien weeds and insect pests and is developing new research and training initiatives across the broader remit of the CABI Bioscience Programmes.

The Director ensures the quality of the science, manages the budget and deployment of resources and provides leadership of the Centre. The successful candidate will develop further the high quality services to our international clients and will develop and secure new funded projects for the Centre. The successful candidate will work in concert with CABI Bioscience management to contribute to the vision, strategy and goals of the Division, and to managing the relationships with our client communities.

A person of vision and enthusiasm is required, someone who is committed to the development of the Centre and its staff, and to supporting the Programmes and financial viability of CABI Bioscience.

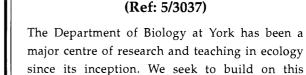
CABI Bioscience, a Division of CAB International, contributes to tackling some of the world's major problems in agriculture, forestry and natural resource management, and has around 200 staff working at and from its research and training Centres in six countries.

For further information about the post, the Swiss Centre and CABI Bioscience, as well as how to apply, please refer to our web site www.cabi.org. The closing date for applications is 15 October, and we anticipate the successful candidate will join us

in March 2000.



CAB INTERNATIONAL



THE UNIVERSITY of York

DEPARTMENT OF BIOLOGY

LECTURESHIP IN ECOLOGY

strength by an appointment to complement our existing activities.

Candidates with a track record of achievement in the field of biodiversity research, and with an emphasis on field-oriented research and teaching are especially encouraged to apply.

Salary will be within the Lecturer Grade B salary scale (£23,521 - £30,065 per annum).

Informal enquiries may be made to the Head of Department, Professor Alastair Fitter (ahf1@york.ac.uk) or Professor Peter Young (jpy1@york.ac.uk).

The closing date for applications is 8 October 1999.

POSTDOCTORAL RESEARCH FELLOW IN DEVELOPMENTAL BIOLOGY

(Ref: 5/6058)

Applications are invited for a 3-year Wellcome Trust funded postdoctoral fellowship. The position will be to study the establishment of the skeletal muscle cell lineage during the development of the frog, *Xenopus laevis*. Candidates should be experienced in molecular biology and have an interest in development.

Starting salary will be within the range £16,286 to £19,869 per annum.

Informal enquiries may be made to Dr. Betsy Pownall (tel: 01904 434480; e-mail: mep4@york.ac.uk), Department of Biology, University of York, PO Box 373, York, YO10 5YW, United Kingdom.

The closing date for applications is Friday 1 October 1999.

For further particulars and details of how to apply please write to the Personnel Office, University of York, Heslington, York YO10 5DD (e-mail: jobs@york.ac.uk), quoting the appropriate reference number or see: http://www.york.ac.uk/admin/persnl/jobs/

POSTDOCTORAL POSITIONS BMP SIGNALING

Positions are available immediately to study the biochemistry of BMP signaling in Drosophila. These factors are involved in numerous processes including axis determination in the early embryonic development of both vertebrates and invertebrates. We are interested in defining the roles of several novel gene products that act extracellularly to modulate the availability of BMP type ligands to receptor complexes, as well as several molecules that function intracellularly to control signal specificity and strength. Experience in the biochemistry of signal transduction, protein purification, enzymology of proteases, and/or ligand-receptor interactions is highly desirable. Salary is negotiable. Applications, to include a curriculum vitae and three letters of reference, should be sent to: Dr. Michael B. O'Connor, Department of Genetics, Cell Biology, and Development, Box 206 FUMC, 420 Delaware Street S.E., University of Minnesota, Minneapolis, MN 55455-0392. Telephone: 612-626-0642; FAX: 612-625-5402; e-mail: moconnor@gene.med.umn.edu; website: http:// www.ihg.med.umn.edu/OConnor/.

The University of Minnesota is committed to the policy that all persons shall have Equal Access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.

POSTDOCTORAL POSITION. A Postdoctoral Fellowship is immediately available to study the molecular and cellular role of opioids and opioid receptors in human immunodeficiency virus (HIV-1) replication and reactivation. Studies will include a cellular and molecular analysis of the effects of opioids and opioid receptors on HIV-1 replication and reactivation. Experience and interest in HIV-1 and molecular biology is required. This position includes opportunities to collaborate within a rapidly growing center studying effects of opioids and other drugs of abuse on the immune system. Applicants must be U.S. citizens or have resident alien status. Please send curriculum vitae and three references to: Dr. Earl Henderson, Department of Microbiology and Immunology, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140. FAX: 215-707-7788; e-mail: eehender@astro.ocis. temple.edu. Temple University is an Equal Opportunity/ Affirmative Action Émployer.

POSTDOCTORAL FELLOW OR RESEARCH SCIENTIST

Position available for a Postdoctoral Fellow or Research Scientist interested in viral hepatitis research. Applicant should have training and experience in molecular virology and/or immunology research. Selected candidate is expected to lead a laboratory-based research program in viral hepatitis and to supervise virology assays that support clinical research in viral hepatitis. Salary and appointment is commensurate with training and experience. Qualified candidate may be considered for a faculty position. Please contact: Anna Lok, M.D., Division of Gastroenterology, University of Michigan Medical Center, 3912 Taubman Center, Box 0362, Ann Arbor, MI 48109. Telephone: 734-936-4780; FAX: 734-936-7392; e-mail: aslok@umich.edu.

Available immediately. POSTDOCTORAL FELLOW/RESEARCH SCIENTIST positions for studies of peripheral nervous system function (pain) and pathophysiology (peripheral neuropathy) using viral-mediated gene transfer with the aim of developing novel therapies. Applicants should have a background in either neuroscience or in molecular genetics. Letters of interest with curriculum vitae and names of three references may be sent to: Dr. David Fink, Departments of Neurology and Molecular Genetics and Biochemistry, University of Pittsburgh, S-520 Biomedical Science Tower, 3500 Terrace Street, Pittsburgh, PA 15213. E-mail: dfink@med.pitt.edu. Equal Opportunity Employer.

POSITIONS OPEN

A Mayo Clinic POSTDOCTORAL POSITION with NIH Training Grant support is available for a Postdoctoral Fellow with an interest in the molecular mechanisms of liver cancer development. The project, which will be based in the laboratory of David I. Smith, Ph.D., is a collaborative effort between the Division of Gastroenterology and Hepatology and the Cancer Genetics Program of the Mayo Comprehensive Cancer Center to study the role of chromosomal fragile sites in liver carcinogenesis. Ongoing studies include fragile site cloning, identification of genetic abnormalities in liver cancer, and discovery of gene targets in liver carcinogenesis. Candidates must be a U.S. citizen or permanent resident and have an M.D. or Ph.D. degree. Please send curriculum vitae and the names of three references to: Lewis R. Roberts, M.D., Ph.D., Division of Gastroenterology and Hepatology, Mayo Clinic, 200 First Street S.W., Rochester, MN 55905. Telephone: 507-284-4823; e-mail: roberts.lewis@mayo.edu. Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.

POSTDOCTORAL POSITION TO INVESTIGATE THE ROLE OF P53 MUTATIONS IN ONCOGENESIS

Applications are invited from recent graduates for a Postdoctoral position in a laboratory involved in understanding the molecular biology of the tumor suppressor p53. This position is to identify the pathway affected by p53 mutations leading to oncogenesis. Individuals with expertise in recombinant DNA technology, particularly DNA sequencing, cDNA technology, and mammalian cell culture systems are especially encouraged to apply. Salary is negotiable. Send complete curriculum vitae and names of three references to: Sumitra Deb, Ph.D., 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: sudeb@wfubmc.edu. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE positions available immediately to study the protein-protein and electron transfer reactions of wild type and mutant cytochrome P450 under both anaerobic and aerobic conditions. The nature of the intra and extra membrane interprotein interactions of cytochrome P450 will be examined. Applicants should have a Ph.D. in biochemistry or a related field. Knowledge of enzyme kinetics and molecular biology techniques preferred. Send résumé and three letters of reference to: L. Waskell, Ph.D., Research Service, VA Medical Center, 2215 Fuller Road, Ann Arbor, MI 48105. E-mail: waskell@umich.edu; FAX: 734-213-6985.

POSTDOCTORAL POSITION IN NEUROBIOLOGY

A Postdoctoral position is available immediately to study the regulation of neurotransmitter genes, receptors, second messengers during development and disease. Candidate must have previous experience in gel shift analysis, phosphorylation, HPLC-EC.

Send curriculum vitae and names of three references to: Dr. Lorraine Iacovitti, Department of Neurology, Suite 501 College, Thomas Jefferson University Medical College, 1025 Walnut Street, Philadelphia, PA 19107. FAX: 215-955-2993.

POSTDOCTORAL or ASSOCIATE RESEARCH POSITION available for a project involving functional genomics, including microarrays, and transgenic and knockout mouse models in vascular biology and atherogenesis. Must have Ph.D. from U.S. or U.S. equivalent university and two years of experience in advanced molecular biological techniques. Send curriculum vitae and three references to: Dr. Ira Tabas, Division of Molecular Medicine, Columbia University, 630 West 168th Street, New York, NY 10032. E-mail: iatl@columbia.edu. We are an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITIONS are available to clone DNA elements in rice and maize centromeres (*Genetics* 150:1615–1623, 1998; *PNAS* 95: 8135–8140, 1998). We are using DNA/protein interaction assays and transformation-based approaches to identify functional centromeric DNA elements and will assemble these elements into artificial chromosomes. The candidates will work closely with collaborators, Dr. J. A. Birchler (University of Missouri) and Dr. R. K. Dawe and Dr. W. A. Parrot (University of Georgia). Send hard copies of cover letter, curriculum vitae, and three letters of reference to: J. Jiang, 1575 Linden Drive, University of Wisconsin–Madison, Madison, WI 53706.

ANNOUNCEMENTS

MOLECULAR LIBRARY TECHNOLOGIES AT THE MILLENNIUM. October 24–26, 1999; Holiday Inn, Chinatown, San Francisco. Keynotes: S. Brenner, Mol. Sci. Inst. Berkeley; S. Kauffman, Bios-Group; J. Wells, Sunesis; G. Winter, MRC. Speakers: A. Plückthun, Zurich, J. McCafferty, CAT, J. Marks, UCSF, A. Bradbury, Los Alamos, I. Tominson, MRC, W. Dower, Affymax, C. Barbas, Scripps, T. Clackson, Ariad, H. Hoogenboom, Maastricht, A. Skerra, Munich, K. Janda, Scripps, J. Ellman, Berkeley, A. Ellington, Texas, L. Gold, NexStar, K. Wittrup, Illinois, M. Taussig, Babraham, G. Nolan, Stanford, R. Brent, Mol. Sci. Inst., S. Michnick, Montreal, A. Griffiths, MRC, P. Stemmer, Maxygen, R. Roberts, CalTech, F. Arnold, CalTech. Abstracts due October 1, 1999. Organizers: D. Burton, J. Larrick, J. Marks. Sponsor: Palo Alto Institute of Molecular Medicine, 2462 Wyandotte Street, Mountain View, CA 94043 USA. Telephone: 650-694-1420; FAX: 650-694-7717; e-mail: paimm@netgate.net. Details, website: www.pano.com/paimm.

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POSTDOCTORAL POSITION

Immediately available in a recently created research department at the Institut National de la Santé et de la Recherche Médicale in Paris. The project relates to the emergence of the hemtaopoietic, stromal, and endothelial cell lineages in human and mouse ontogeny and will be carried out in close collaboration with other leading laboratories in United Kingdom, Netherlands, Japan, and United States. Candidates are expected to have a training background in developmental biology and be initiated to cell biology techniques such as in vitro culture, flow cytometry, and immunohistochemistry. Previous experience with mouse models of hematopoiesis preferred. Skills in biochemistry and molecular biology optional but welcome. Enquiries and applications to: Dr. Bruno Péault, INSERM U506, Hopital Paul Brousse, 12 Avenue Paul Vaillant-Couturier 94807 Villejuif Cedex France. Telephone: 33-1-45-59-52-63; FAX: 33-1-45-59-52-68; e-mail: peault@infobiogen.fr.

POSTDOCTORAL POSITIONS

Two Postdoctoral Fellowship positions, each for two years, are immediately available to study metabolic engineering of starch synthesis in cereal crops. The research will focus on the construction of transgenic barley. The positions are funded by the Swedish Plant Biotechnology Network, and the Nordic Joint Committee for Agricultural Research. Fellowships are taxfree for non-Swedish citizens and start at 13,000 SEK per month (approximately \$19,000 per year US). Successful applicants should have demonstrated experience in plant transformation and general plant molecular biology. Interested individuals should send a curriculum vitae and the names and addresses of two references to: Professor Christer Jansson, Department of Plant Biology, The Swedish University of Agricultural Sciences, P.O. Box 7080, S-75007 Uppsala, Sweden. E-mail: christer.jansson@vbiol.slu.se.

POSTDOCTORAL POSITION available immediately to study the function of commonly mutated tumor suppressor genes via gene targeting in human cultured cells (see: Nature 381:713, 1996; Nature Medicine 3:1034, 1997; Science 282:1497. 1998). Send cover letter, curriculum vitae, and the names of three references to: Todd Waldman, M.D., Ph.D., Lombardi Cancer Center, Georgetown University School of Medicine, Research Building, Room E412, 3970 Reservoir Road N.W., Washington, DC 20007. FAX: 202-687-7505; e-mail: waldmant@gunet.georgetown.edu.

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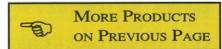
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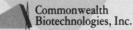
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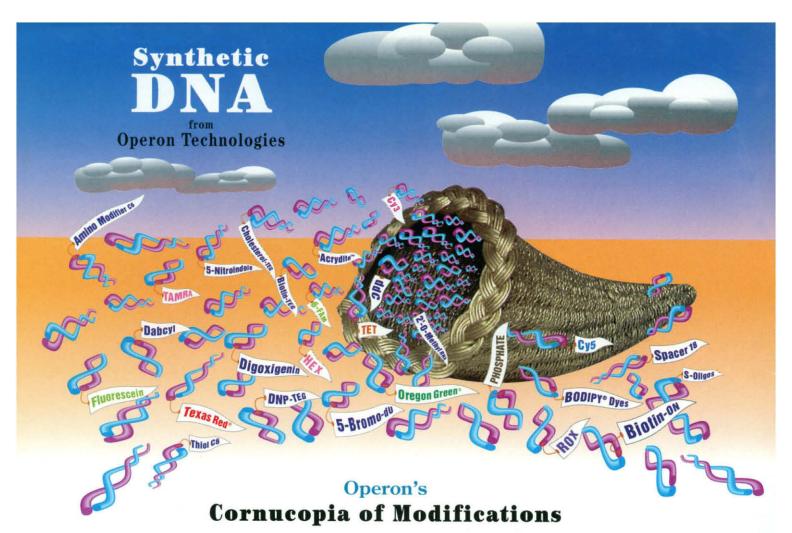
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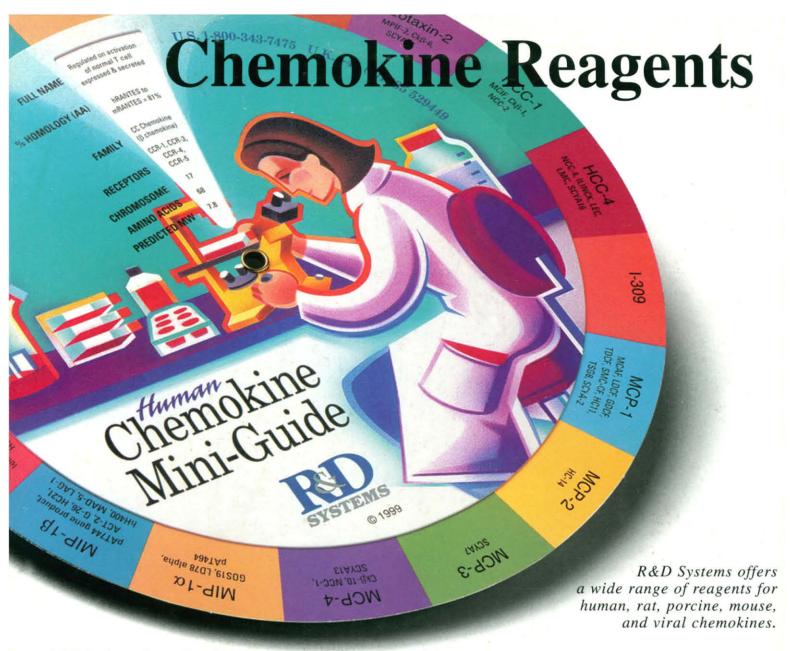


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