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Although Design-Expert is an excellent tool for designing experiments, the program could also use some improvement. It needs some facility for report generation; currently, it is necessary to copy and paste tables and graphs into other applications to produce reports. Despite this minor reservation, the software is useful for assisting in the experimental design of research.

-Tony Cass

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The University of New Mexico is seeking a dynamic and experienced leader for the position of Dean of the School of Engineering (SOE). Located in Albuquerque, UNM is a Carnegie Doctoral/Research Extensive institution and a DoEd Minority public university. Founded in 1889, UNM is the largest and most comprehensive of the state's institutions of higher education. The Dean, who reports directly to the Provost/Vice President for Academic Affairs, provides academic and administrative leadership to the SOE. As the primary academic and administrative officer of the faculty of the School of Engineering, the Dean will assume a central leadership role in continuing development of the SOE's disciplines toward national eminence with a solid commitment to research and teaching. The Dean is responsible for improving and promoting the SOE in areas of instruction, research, fiscal management, development and personnel. The School of Engineering has over 100 faculty in five academic departments: Chemical and Nuclear Engineering, Civil Engineering, Computer Science, Electrical and Computer Engineering, and Mechanical Engineering. Among the internationally recognized centers associated with the school are the Center for High Technology Materials, the Center for Microengineered Materials, the Microelectronics Research Center, the High Performance Computing Education and Research Center, and the New Mexico Engineering Research Institute. UNM is also a member institution of the WERC-A Consortium for Environmental & Technological Development. The SOE is ranked nationally for both its undergraduate and graduate programs.

Minimum qualifications for the position include an earned Ph.D. in Engineering or doctoral degree in a related discipline, a record of accomplishment or credentials that would merit appointment at the rank of tenured full professor in an academic department of UNM's School of Engineering, and three years of management and administrative experience at the level of department head, chair, research director, center director, dean, or the equivalent.

For a complete listing of the position description including desired qualifications and application procedures you may access the job posting on UNM's web site at http://www.unm.edu/~oeounm/facpost.html. You may also request a copy of the position announcement from:

> Dr. Nancy Middlebrook Search Coordinator 235 Scholes Hall University of New Mexico Albuquerque, NM 87131 (505)277-2611 ndm@unm.edu

The University of New Mexico is an Equal Opportunity/Affirmative Action Employer/Educator

For additional information about UNM see http://www.unm.edu

University of Illinois at Chicago

Head Biochemistry & Molecular Genetics

Applications and nominations are invited for the new position of Head of the Department of Biochemistry & Molecular Genetics at the University of Illinois at Chicago (UIC). This new position has arisen from the merging of the Department of Molecular Genetics and the Department of Biochemistry & Molecular Biology to form the Department of Biochemistry & Molecular Genetics, with a mission for the Department to develop in a way that takes advantage of the enormous new opportunities afforded by the genomics revolution.

The new Head will be charged with integrating the current faculties of the Departments of Biochemistry & Molecular Biology and of Molecular Genetics, which currently consist of 29 full-time members with well-funded research programs supported by extramural funding in excess of \$11 million in the current year, including 30 NIH research and training grants. The constituent graduate programs are strong, with current combined enrollment of 78 graduate students. The new Head will be expected to play a key role in the establishment of a campus-wide Center for Genomic Sciences to develop genomics, proteomics and related disciplines.

The successful candidate should have a Ph.D. and/or M.D. degree, must be of national stature, have an active funded research program that fits well with the mission of the Department, have exceptional administrative skills, and have the vision and drive to ensure the successful integration of the constituent Departments and the development of genomic sciences at the college and institutional levels. The candidate should be eligible for professorship status with tenure.

For fullest consideration, nominations and/ or letters of application, along with curriculum vitae and names of three references should be submitted by March 1, 2001 to:

Asrar B. Malik, PhD, Professor & Head, Department of Pharmacology Chair, Biochemistry & Molecular Genetics Head Search Committee c/o Gregory S. Pittsley, Dean's Office UIC College of Medicine at Chicago 1853 W. Polk Street, Room 131 CMW (M/C 784) Chicago, Illinois 60612

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

Defining Gene Function for Drug Discovery

Finding the best targets for drug discovery among some 100,000 genes contained in the human genome is a task of such complexity and scale that it will require the combined efforts of leading research scientists throughout the world. Lexicon Genetics Incorporated, based in The Woodlands, Texas, is currently seeking the following professionals:

Scientists - Molecular Genetics A position is available immediately for an experienced Scientist to participate in our efforts to define gene function using targeted mutagenesis in embryonic stem (ES) cells. Requirements include a Ph.D. in Molecular Biology or related field, 3 years post-doctoral experience, and proven expertise in the field of gene targeting with skills including DNA manipulation, genomic library screening, targeting vector construction, genomic Southern, PCR, and sequence analysis. Excellent communication skills, a willingness to train and supervise technicians, and the ability to manage multiple projects within defined timelines are required.

Scientists - Immunology Areas of interest and background include cellular, molecular, or developmental immunology. Preference will be given to candidates with experience in mouse immunology, FACS analysis, and signal transduction techniques

Scientists - Neuroanatomist

A position is available immediately for a Neuroanatomist with experience in molecular biology. The candidate will examine the effects of gene knockouts on the structure of the nervous system, and make and test hypotheses about primary vs. secondary structural changes as well as hypotheses about anatomical substrates of behavioral phenotypes. The successful candidate will have a Ph.D. with at least 3 years of postdoctoral experience in all aspects of neuroanatomical research, with a strong appreciation of molecular biological aims and procedures. The candidate will have strong skills in all phases of in situ hybridization and be amenable to automated, higher-throughput methodologies as well as careful, detailed analysis. Experience with the structural aspects of human disease is a plus. A team orientation and good communication skills are vital.

Scientists - Behavioral

A position is available immediately for a scientist with extensive experience in murine behavior to work with other scientists in the behavioral characterization of knockout animals. The candidate will examine the effects of gene knockouts using behavioral assays, make and test hypotheses about primary vs. secondary changes, as well as hypotheses about the anatomical/physiological substrates of these behavioral phenotypes. The successful candidate will have a Ph.D. with at least 3 years of postdoctoral experience in all aspects of behavioral research, including many of the assays used to predict efficacy on human disease. Extensive experiences in developmental behavior, epileptogenesis, or sleep disorders are a plus. A team orientation and good communication skills are vital

Scientists - HTS Bioassay Development We seek a highly qualified candidate to bolster the efforts of our bioassay development group to design and implement screens of Lexicon's functionally validated drug targets. Direct experience in an industrial setting with functional assays to detect secondary messengers as well as a working knowledge of the design instrumentation, and implementation of HTS assays in general is required. Successful candidates will possess a Ph.D., be team oriented, and have the ability to adroitly manage multiple projects simultaneously. Excellent communication skills, supervisory experience, and familiarity with data-handling bioinformatics tools are also desired. Please include Job Code HTS on your cover letter.

Scientists - Bioinformatics

Requirements call for a Ph.D. in computer science or molecular biology with extensive training in bioinformatics such extensive training in bioinformatics such as scientific programming, sequence data mining and analysis, scientific software development, database and/ or web programming. The position will consist of developing custom scientific software for Lexicon's drug discovery efforts in the Bioinformatics group and interacting with scientists on a regular interacting with scientists on a regular basis to meet their needs in software development and support.

Web/Database Developers

Candidate should have 2+ years professional experience developing web based software. We are seeking candidates with web and relational database programming experience to develop and maintain software for our internet and extranet web sites. PHP programming is a plus.

Scientific Programmers You must possess a MS in computer science or equivalent practical experience with a track record of software development in a scientific context. Knowledge of Molecular Biology, Bioinformatics tools and/or database experience and Web programming is a plus.

Additional openings are available in all areas for Senior Research Associates, Research Associates and Research Assistants.

Lexicon Genetics employees enjoy a pleasant work environment in The Woodlands, TX, located 30 miles north of Houston where a full range of cultural experiences awaits. We are interested in expanding our team with talented and motivated candidates. Lexicon provides an outstanding benefit package and rewarding career opportunities as well as a unique opportunity to contribute to the genomics field. **Please** send your resume and cover letter, to: Human Resources, Lexicon Genetics, Inc., 4000 Research Forest Drive, The Woodlands, Texas 77381-4287. Fax: 281-863-8050; Email: lexscience@saztec1.com

For more information on our company, please visit our website at www.lexicon-genetics.com. EOE

Leading the Genomic Revolution

Postdoctoral Fellow/Senior Scientist Positions in North Coastal San Diego County

Isis Pharmaceuticals, Inc., is a leading genomics-based drug discovery and development company that is focused on RNA. Our goal is to create important new drug discovery technology platforms that will improve the productivity of the pharmaceutical industry and will enable our discovery and development of important new drugs to treat disease and to improve the lives of patients. We have integrated our expertise to create two exciting technologies, antisense and Ibis Therapeutics, a robust pipeline of drugs in development and genomics services (GeneTroveTM). Our technologies are already generating an exciting and renewable product pipeline for Isis. Through advances of this caliber, we seek to change the landscape of disease treatment and patient quality of life. We are currently seeking the following professionals to join our growing team.

Genomics/Bioinformatics

Ibis Therapeutics, a division of Isis Pharmaceuticals, is seeking scientists in bioinformatics/genomics to participate in our RNA-targeted drug-discovery research. Our strong computational genomics group is involved in target identification in prokaryotic and eukaryotic genomes. This position requires a Ph.D. in Computational Biology, Molecular Biology, or a related field, and expertise in bioinformatics tool development, as well as in genome sequence analysis. Experience with PERL, UNIX, and sequence analysis tools databases is essential. (Code: RS398)

Core Antisense Research

Post Doctoral Fellow to study the biological and pharmacological roles and enzymatic properties of Human RNaseH enzymes and the molecular mechanism of antisense drugs, including nucleases such as RNaseH and RNase 3, and splicing. (Code: SC388)

> Learn more by visiting us at: www.isip.com www.ibisrna.com

For consideration, please send a detailed CV, including appropriate Job Code, a cover letter, and contact information for three references, to: Isis Pharmaceuticals, 2292 Faraday Ave., Carlsbad, CA 92008; Fax: (760) 603-2700; or E-mail: resume@isisph.com Principals only. No phone calls please.



New England Biolabs, a world leader in the manufacture and supply of reagents for Molecular and Cell Biology, has the following position available.



Postdoctoral Fellow

Position available immediately for studying protein splicing and its applications (see http://www.neb.com for more details). The applicant should have strong background in molecular biology, protein engineering and expression. Skills in cDNA library construction and protein evolution are highly desired. At NEB, scientists conduct basic research in various disciplines supported by NEB as well as by grants, and they routinely publish their work in leading journals and lecture at scientific conferences.

Send a resume and three references to: Dr. Shaorong Chong, or e-mail to chong@neb.com.

> New England Biolabs, Inc. 32 Tozer Road Beverly, MA 01915

An Equal Opportunity Employer

TWO TENURE-TRACK FACULTY POSITIONS Roswell Park Cancer Institute, Buffalo, NY

Cell Cycle Targeting and Anticancer Drug Action

The Therapeutics Program and the Department of Pharmacology and Therapeutics at Roswell Park Cancer Institute seek to fill two faculty positions at the level of Assistant Professor in the areas of anticancer target discovery and mode of anticancer drug action. Applicants for the first position should be studying basic mechanisms of cell cycle regulation and/or apoptosis with a goal of discovering and validating novel therapeutic targets. Applicants for the second position should be using modern in vitro and/or in vivo approaches to identify and therapeutically exploit mechanisms of anticancer drug action, selectivity or resistance. Pharmacological use of modern mouse model systems and interest in clinical validation of leads would be desirable. Laboratory space located in the Grace Cancer Drug Center provides a richly multidisciplinary environment and the opportunity to interact with both research scientists and clinicians. Institute core facilities include micro-array analysis, confocal and electron microscopy, biopolymer synthesis and sequencing, transgenic and knock-out mouse development, laser capture micro-dissection, high throughput genotyping, a small animal MRI and GLP preclinical toxicology. Candidates may participate in an

ROSWELL P A R K *CANCER INSTITUTE*

PATIENT CARES RESEARCH EDUCATION+ EIM & Cartion Streets Buffalo, New York 14283 http://www.roswelpak.org 1-800-ROSWELL active graduate program in Molecular Pharmacology and Therapeutics. Competitive salaries and start-up packages will be provided.

Interested candidates should send a CV. the names and addresses of three references and a 2-3 page summary of research interests to: Faculty Search Committee, c/o Dr. Carl Porter, Therapeutics Program; Roswell Park Cancer Institute; Elm and Carlton Streets; Buffalo, NY 14263. Inquiries will be received at cheryl.melancon@ roswellpark.org.Initial.candidate.evaluations.will begin in March, 2001.

Roswell Park Cancer Institute is an Equal Opportunity/ Affirmative Action Employer

Life Made Better

he members of the Bristol-Myers Squibb Pharmaceutical Research Institute share one goal - to discover and develop best-in-class, cost-effective medicines that extend and enhance human life.











The Proteomics Department at Bristol-Myers Squibb is expanding to satisfy the needs for proteomic analysis in drug discovery. Staffed by world-class scientists, our mission spans the scope from early phase target identification to later phase biomarker development. Our research is conducted in a highly collaborative environment with scientists from multiple disciplines. We are seeking talented individuals who share our vision of proteomics in drug development and desire to be part of this rapidly moving science at BMS.

- World-class proteomics experts
- State-of-the-art research facilities
- Collaborative research environment
- Continuous technology development
- Growth potential
- Multiple disciplines desired

Biochemists

Multiple openings are available for B.S. level individuals with training in protein purification, separations, and structural determinations. Familiarity with 2D gel electrophoresis and the processing of proteins for mass spectral analysis is desired. Additional experience in tissue culture and cellular fractionation techniques is preferred. Job Code: PRMSS304GA1

Mass Spectrometrists

Openings are available for individuals with experience in mass spectral analysis of proteins and peptides. Experience in LC-MS, MS/MS, MALDI-TOF, microflow separations, automation, and database searching is required. A B.S./M.S. degree with 3-5 years of experience is desired. Job Code: PRMSS304GA2

Cellular Biochemist

Openings are available for individuals with research experience in cell biology. Experience in signal transduction, purification of protein complexes, molecular biology, and tissue culture is desired. An M.S. degree with 3-5 years experience is preferred. B.S. level individuals with additional experience are encouraged to apply. Job Code: PRMSS304GA3

Please send resume to: E-mail: recruit.pri@ bms.com; Fax: 609-252-3242; Bristol-Myers S Pharmaceutical Research Institute, P.O. Box Princeton, NJ 08543-4000.



Bristol-Myers Squibb

Pharmaceutical Research Institute

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Bristol-Myers Squibb is proud to be an equal opportunity employer, M/F/D/V.

STAFF RECRUITMENT CLASSIFIED ADVERTISEMENT



THE WESTINGHOUSE SAVANNAH RIVER COMPANY (WSRC) operates the Savannah River Site (SRS) for the United States Department of Energy (DOE). SRS missions include defense programs, non-proliferation of nuclear weapons, environmental remediation and restoration, waste management, chemical processing, research and development, and technology transfer.

We are currently seeking a qualified **Applied Statistician** to join the Statistical Consulting Section of the Savannah River Technology Center (SRTC). The technology center is a R&D division of WSRC. SRTC provides technical support to the operations divisions at SRS. The successful candidate will show an an ability to consult and collaborate with technical professionals and customers in such organizations. He or she will be part of a team of six other statisticians who supply experimental designs, sampling plans, data analyses, data management solutions, and computerassisted report generating applications for scientists, engineers, and other professionals. Consulting problems derive from a broad range of disciplines such as chemical engineering, environmental science, and nuclear materials processing. The candidate must also be able to obtain a DOE security clearance. Salary is commensurate with your training and experience. Our benefits program includes relocation assistance.

Candidate qualifications include:

- MS/PhD in statistics or closely related discipline
- 5+ years of experience in industry
- Experience in both statistical and geostatistical methods application and consulting
 Strate untrol communication and toobside
- Strong verbal communication and technical writing skills
 Demonstrated teamwork skills
- Demonstrated teamwork skills
 A track record for customer orientation
- Statistical computing skills with SAS, JMP, or S-Plus

For consideration please forward resume, salary history and three references (names, addresses, phone numbers and email) to

Mr. Lamar Cherry Westinghouse Savannah River Company Employment Bldg. 719-4A Aiken, SC 29808 Fax: (803) 725-8781 Email: lamar.cherry@srs.gov

SRS is located in a mild climate with easy access to some of the Southeast's most attractive cultural recreational and educational resources (Atlanta, Augusta, Charlotte, Columbia, Charleston, Hilton Head and Savannah)

New England Biolabs, a world leader in the manufacture and supply of reagents for Molecular and Cell Biology, has the following position available.



Postdoctoral Fellow

Position available immediately for studying protein splicing and its applications (see http://www.neb.com for more details). The applicant should have a strong background in protein characterization and/or protein engineering. Skills in molecular biology or familiarity with plant systems are desired. At NEB, scientists conduct basic research in various disciplines and routinely publish their work in leading journals and present at scientific conferences.

Send a resume and three references to: Dr. Tom Evans, or e-mail to evans@neb.com.

New England Biolabs, Inc. 32 Tozer Road Beverly, MA 01915

An Equal Opportunity Employer



Endowed Chair in Genomics College of Life Sciences and Agriculture

The College of Life Sciences and Agriculture at the University of New Hampshire is soliciting applications for the position of the Hubbard Professor and Endowed Chair in Genomics. This position will be an integral part of the center for genomic studies currently being established within the College of Life Sciences and Agriculture at UNH. The Hubbard Professor will be associated with an appropriate department of the College. Candidates for the Endowed Chair should have qualifications to join the College at the rank of Professor, should be nationally and/or internationally recognized for accomplishments in an area of functional genomics and should possess a record of excellence in teaching and research. The precise area of research is less important than demonstrated potential to enhance the quality and strength of genom-ic/proteomic-based research at UNH. Special consideration will be given to candidates with research excellence in areas of genomics that compliment existing research at UNH, including Marine and Freshwater Biology, Environmental Sciences, Plant & Microbial Biology and established/emerging model organisms. The incumbent will be expected to maintain an innovative externally funded research program, to contribute to undergraduate/graduate education, and to provide leadership in furthering the goals of the College as well as the institute for genomic studies. A strong record of excellence in teaching, research, leadership and collaboration will be required. A competitive package for salary, start up funds and space is available.

Nominations or applications should be accompanied by curriculum vitae. Applications should also include a letter of interest and the names, phone numbers and email addresses of five individuals who could serve as references. Review of applications will begin on **February 1, 2001** and continue until the position is filled. Send applications or nominations to: **Dr. William R. Trumble, Search Committee Chair, Taylor Hall, University of New Hampshire, Durham, NH 03824.**

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



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY POST-DOCTORAL PROGRAM National Health and Environmental Effects Research Laboratory

The National Health and Environmental Effects Research Laboratory (NHEERL) of the U.S. Environmental Protection Agency (EPA) has an active post-doctoral research program with vacancies anticipated during the year. As one of the national laboratories within the Office of Research and Development (ORD), NHEERL is EPA's focal point for scientific research on the effects of contaminants and environmental stressors on human health and ecosystems. NHEERL utilizes a multi-disciplinary approach to solving research problems. Assimilation and integration of information across environmental disciplines and across multiple levels of biological organizations (from molecular to the whole organism, and from the organism to the ecosystem levels) strengthen analyses of environmental issues. Some of these positions may present developmental opportunities which may be cross-organizational or cross-disciplinary; i.e., within or across NHEERL ecology or health divisions; across lab and human or ecological field studies; and across other national laboratories/centers within ORD or regulatory program offices within EPA.

Because of NHEERL's broad research mission and multi-disciplinary approach, we seek candidates from a wide range of disciplinary backgrounds. The preferred candidate will have earned a Ph.D. in one of the following areas (or a closely related field): biochemistry, biology (e.g., cellular, molecular), biomedical or chemical engineering, biostatistics/modeling, development and reproduction, ecology (e.g., aquatic, coastal systems, coral, ecosystem, estuarine, landscape, marine, microbial), ecotoxicology, endocrinology, environmental sciences, epidemiology, genetics, geographic information science, geomorphology, geostatistics, immunology, microbiology, neurosciences, pharmaceutical sciences, pharmacology, physical chemistry, physiology, plant physiology, population/community modeling, pulmonology, or toxicology. Candidates with an M.D. or D.V.M. degree and a background demonstrating experience conducting scientific research may also be considered.

NHEERL is organized into nine divisions which are located at various geographical locations and specialize in a different field of environmental health or ecology research. Post-doctoral positions to conduct research on environmental health are anticipated for divisions located in Research Triangle Park and Chapel Hill, NC. Post-doctoral positions to conduct ecology research are anticipated for divisions located in Duluth, MN; Gulf Breeze, FL; Corvallis and Newport, OR; and Narragansett, RI. To obtain specific information on the scientific research projects currently available in NHEERL post-doctoral positions, please visit the NHEERL Internet site at www.epa.gov/ nheerl. Applicants may also be considered for other NHEERL post-doctoral positions in addition to those specifically referenced on the NHEERL Internet site.

These positions are excepted service appointments for two to three years, and offer a salary range of **\$34,575 - \$65,179**, commensurate with qualifications. The selected candidates will be eligible for a full benefits package, including relocation expenses, health insurance, life insurance, retirement, and vacation and sick leave.

United States citizens are preferred and will be given first consideration for all positions. In the absence of qualified U.S. citizens, applications of U.S. permanent residents who are citizens of countries specified as exceptions to the appropriations act ban on paying non-U.S. citizens may be considered. Further information on Federal employment of non-citizens is available at www.opm.gov/employ/html/citizen.htm.

During calendar year 2001, applications will be accepted during three opening periods:

- 1) January 2 through February 28;
- 2) May 1 through June 29; and
- 3) September 4 through October 31.

If you are interested, please send the following, during an open period, to Ms. Dorothy Carr, U.S. Environmental Protection Agency, Human Resources Management Division (MD-29), Research Triangle Park, NC 27711, Attn: NHEERL Post-Doctoral Program:

- Curriculum vitae;
- · Letter of recommendation from your senior research advisor or other comparable official;
- Cover letter indicating your research interests, preferred research project(s) by number (see the NHEERL Internet site), preferred geographical location(s), country of citizenship, and citizenship status (citizen or permanent resident);
- If you wish to be considered for multiple research projects and/or geographical locations, please indicate each project number and location in your cover letter;
- If you are claiming veterans' preference, please include your DD-214 with your application package.

If you send your application via express mail, address it to Ms. Dorothy Carr, U.S. Environmental Protection Agency, Human Resources Management Division (MD-29), 4201 Building, Suite 105, 79 Alexander Drive, Research Triangle Park, NC 27709, Attn: NHEERL Post-Doctoral Program. You may also submit your application via facsimile (fax) machine to (919) 541-2186; however, applications faxed from a U.S. government fax machine will not be accepted. Applications sent electronically via the Internet or mailed in U.S. government postage-paid envelopes will also not receive consideration.

All application materials must be received in the Human Resources Office during one of the three opening periods, but no later than the last day of each opening period (February 28, June 29, or October 31). Applications received outside of an open period will not be considered and will be returned to the applicant. Questions may be directed to Ms. Carr at (800) 433-9633. After all responses are reviewed, candidates will receive written notice of the status of their applications.

The U.S. EPA is an Equal Opportunity Employer.

IVERSITY OF Center of Biomedical **Research Excellence** in Structural and **Functional Genomics**

Postdoctoral positions are available in a new multidisciplinary Center of Biomedical Research Excellence (COBRE) in Structural and Functional Genomics at the University of Delaware, A 5-year NIH grant supports a collaborative infrastructure with core facilities that include protein production and purification, protein analysis and computational biology resources. Postdoctoral positions are available in:

Structure-Function Relationship of Calcium- and Integrin-Binding Protein (CIB) (Ulhas P. Naik, Biological Science and Brian J. Bahnson, Chemistry and Biochemistry): (1) Structural biology aspects of CIB, including the X-ray crystal structures of CIB and functionally significant complexes with partner proteins. (2) Molecular biology approaches to characterize CIB interactions with these partner proteins. http://www.udel.edu/bio/people/faculty/naik.html

Engineering Organophosphate Hydrolase Activity in Serine Esterases (Brian J. Bahnson, Chemistry and

Biochemistry): Incremental optimization of activity among esterase and lipase targets using protein engineering, expression, purification, kinetics and X-ray crystallography. Expertise in all of these areas is not essential. http://www.udel.edu/chem/bahnson

Functional Assays and Network Modeling to Identify the Protein Sequence-Structure-Function Relation (Jeremy S. Edwards, Dept. of Chemical Engineering): Study of sequence-structure-function relation in metabolic enzymes by interdisciplinary approaches involving yeast and human genetics, functional genomics, bioinformatics, computationai biology, and protein engineering. Expertise in any of these areas is acceptable.

http://www.che.udel.edu/faculty/full/edwards

Stability and Folding Pathways for Amyloid and B-Sheet Formation (Yong Duan, Chemistry and Biochemistry and Anne S. Robinson, Chemical Engineering): Synergistic computational and experimental studies of aggregation, stability, misfolding, and folding pathways of B-peptides and proteins. (1) Computational studies of intermediate states of folding of B-peptides and proteins and their roles in folding and misfolding mechanisms. http://mario.chem.udel.edu (2) Experimental research on effect of protein sequence on competition between folding and aggregation, and design of soluble domains of B-sheet proteins. Experience in protein biochemistry and biophysics preferred.

http://www.che.udel.edu/faculty/full/robinson

Submit a curriculum vitae, including the names, e-mail, addresses and telephone numbers of three references, and letter indicating the project of interest, by Feb. 14 to: Joan McMullen, Dept. of Chemical Engineering, Univ. of Delaware, Newark, DE 19716. E-mail: mcmullen@che.udel.edu

The UNIVERSITY OF DELAWARE is an Equal Opportunity Employer which encourages applications from minority group members and women.



Research Associate Cell Biology

The Clinical and Experimental Neuro-Oncology section is seeking a Ph.D. in Cell Biology, or similar discipline, that is interested in developing quantitative cell-based semi-automated assays for signaling pathways in cancer cells as well as research applications in target validation and cancer drug-drug interactions. Successful applicant will be expected to be able to utilize fluorescent probes, fluorescent intracellular reporter genes, and histochemical techniques. Other experiences and/ or competencies include computer database proficiency in plotting and basic computational software; effective communication skills; excellent interpersonal skills to work within a group on applied research; and the ability to work diligently on molecular and cellular biology research projects. The selected candidate should also have competency to run laboratory projects as well as be familiar with NIH grants and budget processes.

Interested applicants should send a copy of their CV and a letter describing their research interests to: Victor Levin, M.D., Professor, Clinical Neuro-Oncology, 1515 Holcombe Blvd., Box 100, Houston, TX 77030, Fax: 713-794-4999. E-mail: vlevin@mdanderson.org

> The University of Texas M.D. Anderson Cancer Center values diversity in its broadest sense Diversity works at M. D. Anderson. FEO/AA Smoke-free environment



FACULTY POSITION COMPREHENSIVE CANCER CENTER **Case Western Reserve University**

University Hospitals of Cleveland

Substantial resources are in place to recruit a research scientist who will enhance programmatic development in the area of hormone responsive malignancies. Current faculty strengths and areas of interest include nuclear receptors, transcriptional regulation, animal models, signal transduction, functional genomics and cancer genetics. Submit curriculum vitae as a Word or PDF file, plus a statement of research interest and career plans, and the names of three references to: cancer@po.cwru.edu OR mail to:

> Clark Distelhorst, M.D. c/o Cancer Center at Case Western Reserve University and University Hospitals of Cleveland 11100 Euclid Avenue Cleveland, Ohio 44106-5065



University Hospitals **HealthSystem**

CASE WESTERN RESERVE UNIVERSITY Ireland Cancer Center

> In employment and education Case Western Reserve University is committed to affirmative action and equal opportunity.

POSTDOCTORAL POSITIONS IN VETERINARY MOLECULAR BIOLOGY

The Department of Veterinary Molecular Biology has several postdoctoral positions available to work with a committed group of investigators who are studying diseases/disease processes relevant to humans and animals. VMB has a research institute-like atmosphere and is located in a desirable recreational area in the Rocky Mountains. Salaries/benefits are competitive with programs nation-wide. Qualifications are a Ph.D., or equivalent, in a biomolecular related discipline. Applicants should send a CV, statement of relevant experience that identifies a potential advisor(s), and names/addresses of 3 professional references to Dr. Michael White at: Veterinary Molecular Biology, Montana State University, Bozeman, MT 59717-0360; FAX: 406-994-4303; or e-mail application material directly to an advisor(s) listed below:

Michele E. Hardy Mechanisms of Norwalk virus gene expression and interactions with cells. The lab uses molecular biology, biochemistry, and immunological assays to evaluate the molecular interactions of this important enteric pathogen with cellular proteins. Supported by NIH-NIAID and extramural research contracts. *mhardy@montana.edu*

Mark A. Jutila Immune regulation, with a specific emphasis on gamma/delta T cells and their response to infectious disease. A combination of standard molecular immunological and functional genomic approaches are being used to understand the biology of gamma/delta T cells and their role in mucosal immune responses against enteric infections. Supported by NIH-NIAID, and USDA NRI and IFAFS. uvsmj@montana.edu

David W. Pascual One position is available for comprehensive study using M cell-directed transgene vaccination for preclinical testing of DNA vaccines to HIV. Qualified candidates must have T cell immunology experience. Second position is available for development of vaccines to *Brucella* pathogens, and further our understanding of *Brucella* pathogenesis. Qualified candidates in addition must have previous microbiology and molecular biology experience. Supported by NIH-NIAID and USDA. *dpascual@montana.edu*

Edward E. Schmidt Studies on advanced gene regulation in higher vertebrate animals, particularly during embryonic development. Our approach centers on designing and producing mice bearing targeted mutations in the regulatory machinery, but also includes molecular, biochemical, histological, embryological, and classical genetic approaches. Supported by NIH-NICHD. eschmidt@montana.edu

Mark T. Quinn Analysis of the structure and regulation of the neutrophil NADPH oxidase. Our research program utilizes protein biochemistry, cell biology, and pharmacology to study this multi-protein enzyme complex and the role of free radicals in inflammatory disease. Applicants should have experience in neutrophil biochemistry and free radical biology. Supported by NIH-NIAMS. mquinn@montana.edu

Michael W. White Cell cycle and developmental processes that influence pathogenesis of the malaria-related, AIDS pathogen *Toxoplasma gondii*. The lab employs genetic strategies such as yeast two-hybrid and targeted mutagenesis as well as functional genomics in order to decipher the mechanisms that control pathogen growth and development. Supported by NIH-NIAID and USDA. *uvsmw@montana.edu*

MSU is an ADA/EO/AA/Veteran's preference employer.

The Juvenile Diabetes Research Foundation International (JDRF), the world's leading non-profit, non-governmental funder of diabetes research (up to \$120 million in current fiscal year), is seeking to fill the following position.

Scientific Program Manager

will play an essential role in carrying out JDF's research grant program, training grant program, and implementing partnerships with governments and industry. Additional responsibilities include helping to determine program priorities and tracking/ analyzing/ evaluating the Foundation's research activities. Will coordinate committees and research collaborations among institutions. Will help supervise the grand administration process. Ph.D., M.D. or equivalent degree in biological/biomedical sciences, such as molecular biology, genetics, immunology, biochemistry, or related areas. Postdoctoral experience or equivalent preferred. Excellent writing, verbal, and interpersonal skills are essential. Some travel required.

Please submit resume to:

Juvenile Diabetes Research Foundation International Attn: Human Resources-SM 120 Wall Street, New York, NY 10005-4001 Fax: 212-785-9595 EOE M/F/D/V

CHEMIST -ANALYTICAL/ BIOCHEMIST

We are an established research institution engaged in disease prevention with challenging career opportunities for dedicated professionals.

Research includes the development of new analytical methods and studies of metabolism and DNA adduct formation of compounds in the environment using modern analytical techniques and instrumentation (GC, HPLC, MS, NMR). A BS/MS or Ph.D. degree in chemistry or biological sciences is essential. Experience in molecular biology techniques is preferred.

Along with meaningful projects, you will enjoy an excellent benefits package and a pleasant working environment located on the New York Medical College campus in lower Westchester. Send resume to:

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SCIENTIS

SCIENTIST POSITION AVAILABLE

Pro-Neuron, Inc., is a developmental stage biopharmaceutical company in Gaithersburg, MD with several compounds in clinical trials for a variety of indications. The company is seeking Ph.D. scientists in molecular biology. Expertise in transcription factors, diabetes and/or stem cells is advantageous. Successful candidates will investigate the molecular mechanisms of action of proprietary compounds. Qualified applicants will have a Ph.D. in Molecular Biology or related discipline and at least 2 years of postdoctoral training. Excellent verbal and written communications skills are required.

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> Pro-Neuron, Inc. Attn: HR/SW 16020 Industrial Drive, Gaithersburg, MD 20877



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POSTDOCTORAL POSITIONS

Division of Respiratory Disease Research

We seek an individual who is interested in the physiological and pathological processes that lead to altered airway function in asthma. Candidates should have completed their Ph.D. in a relevant area of biology and ideally should have experience with in vivo models of lung inflammation/asthma. **Job Code 00881258**. **Andover, MA**.

Cell and Molecular Sciences

You will investigate post-transcriptional gene regulation in mammalian cells and conduct independent research focusing on increasing heterologous gene expression. Requirements include a Ph.D. in Cell and Molecular Biology, Biochemistry or a related field and experience in several of the following areas: mammalian cell culture, expression vector construction, transient and stable transfection, RNA purification, polysome purification, cell fractionation, PCR, immunoprecipitation, SDS-PAGE, and immunoblotting. Job Code 00880855. Andover, MA.

Immunology/Hemostasis

The candidate will be responsible for the investigation of interactions between vascular endothelial cells and leukocytes in mediating immune function. You will utilize an array of in vitro techniques, perform in vivo studies examining protein expression on blood vessels and cellular interactions with intravital microscopy, and identify novel biological pathways between endothelial cells and leukocytes in immune-related diseases. Requirements include a Ph.D. in Physiology, Immunology, or a related field and experience in endothelial cell and leukocyte biology. **Job Code 00879592**. Andover, MA.

Immunology Department

GENETICS

Duties include the exploration of costimulatory pathways in the pathogenesis and immunoregulation of EAE using murine models of multiple sclerosis. Ph.D. in Immunology or related field required. Experience in molecular or cell biology is preferred, and applicants should have experience in one or more of the following areas: tissue culture, histology techniques, immune-based cell function assays, FACS and fluorescent imaging, gene expression, and transgenic animals. **Job Code 0081069. Cambridge, MA.**

Genetics Institute, a unit of Wyeth, the Pharmaceutical Division of American Home Products, offers competitive salaries and benefits, including comprehensive health care, dental and life insurance, three weeks paid vacation, matching 401(k), pension plan, relocation assistance, dependent care subsidy, and an on-site exercise facility. Genetics Institute is proud to be an equal opportunity employer, dedicated to building strength through diversity. Please forward your resume with salary requirements to: Genetics Institute, Reference OPSCI, P.O. Box 7886, Philadelphia, PA 19101-7886. Fax to: (610) 989-4854. Email: jobs@RAMAIL1.wyeth.com

For more information, please visit our website at www.genetics.com or www.wyethjobs.com

INSTITUTE





University of Washington Vision Research Program

Post-doctoral and Graduate Research Opportunities

Joseph A. Beavo, Ph.D. Regulation of photoreceptor phosphodiesterases

Mark A. Bothwell, Ph.D. Neurotrophic factors

Susan E. Brockerhoff, Ph.D. Photoreceptor function in zebrafish

Steven L. Buck, Ph.D. Human color vision

John I. Clark, Ph.D. Development, lens

Dennis M. Dacey, Ph.D. Physiology of retinal cells

Samir S. Deeb, Ph.D. Molecular genetics of color vision

Peter B. Detwiler, Ph.D. Signaling in retinal photoreceptors and neurons

Thomas Ebrey, Ph.D. Biophysics of phototransduction

Albert F. Fuchs, Ph.D. Neurobiology of eye movement

Sharona E. Gordon, Ph.D. Ion channels, second messengers, visual transduction modulation

Francoise Haeseleer, Ph.D. Phototransduction, gene transfer

Anita Hendrickson, Ph.D. Primate retinal development

James B. Hurley, Ph.D. Biochemical mechanisms of phototransduction

Jeehee Kim, M.D. Corneal endothelial cell engineering

Albert R. La Spada, M.D., Ph.D. Mouse models of human retinal disease

Raghu Mudumbai, M.D. Glaucoma, trabecular meshwork

Neil M. Nathanson, Ph.D. Development, muscarinic receptors, neurotrophic factors Jaime F. Olavarria, M.D., Ph.D. Visual system development, corpus callosum

Krzysztof Palczewski, Ph.D. Phototransduction, visual cycle

Tony A. Pham, M.D., Ph.D. Visual system development

Thomas A. Reh, Ph.D. Development of the retina

Fred M. Rieke, Ph.D Retinal signal processing

Farrel R. Robinson, Ph.D. Cerebellar eye movement control

Henk Roelink, Ph.D. Induction in neural development

Michael E. Rudd, Ph.D. Psychophysics, neural modeling, brightness perception

John C. Saari, Ph.D. Visual pigment regeneration, vitamin A metabolism

E. Helene Sage, Ph.D. SPARC, cataract formation

David A. Saperstein, MD Macular degeneration, gene therapy

Michael N. Shadlen, M.D., Ph.D. Neurobiology of vision

Bryan S. Sires, M.D., Ph.D. Periocular biochemistry, ocular anatomy

Helen A. Sherk, Ph.D. Visual cortex, visual guidance

Davida Y. Teller, Ph.D. Visual development in infants, color vision

Steven E. Wilson, M.D. Growth factors, apoptosis, cornea

Norman S. Wolf, D.V.M., Ph.D. Pathology cataract, telomeres, DNA damage, and rodent models

William N. Zagotta, Ph.D. Ion channels, phototransduction

U of W School of Medicine, Seattle, WA

Individual investigator contact information available at http://www.uweyemd.org or http://www.washington.edu/home/staffdir.cgi

The University of Washington is building a culturally diverse community and strongly encourages applications from female and minority candidates.

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> Deadline for nominations September 1, 2001

Send nominations to Steven E. Wilson, M.D. Professor and Chair Department of Ophthalmology Box 356485 University of Washington Seattle, WA 98195

Forms for nomination www.uweyemd.org

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Merck Research Laboratories, a world leader in Biological and Pharmaceutical Research, attracts scientists who are on the cutting edge of modern biomedical, genetic, chemical, and scientific discoveries and have an unwavering dedication to research. We are currently seeking a Staff Biochemist for our Rahway, NJ location.

STAFF BIOCHEMIST

We currently have an opening in our Proteomics Research Group. The successful candidate will participate on a drug development program conducting differential protein analysis that supports proteomics applications such as target identification, protein functional analysis/target validation, pathway elucidation, MOA studies, and the identification of surrogate markers. Successful candidates will handle sample preparation, complex protein separations and 2-D gel image analysis for the identification of relevant proteins.

To qualify, you must possess a B.S./M.S. degree or equivalent in Biochemistry, Cellular Biology or a related field with a minimum of 3 (B.S.) or 2 (M.S.) years of full-time post-degree research experience in one of these fields. The successful candidate will have experience in a broad range of biochemistry techniques, including FPLC, HPLC, SDS-PAGE, Western blotting, subcellular fractionation, immunoprecipitation, metabolic labeling and proper handling of radioactivity. Applicants with experience in 2-D gel electrophoresis and image analysis are preferred. Candidates should be highly motivated, creative, and well organized, and should have excellent computer skills, effective oral and written communication skills, and the ability to work within and contribute to multi-disciplinary teams.

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MAYO CLINIC FACULTY POSITION NANOTECHNOLOGY/NANOBIOSCIENCE

The Mayo Clinic, Department of Physiology and Biophysics and the Mayo Clinic Biomedical Engineering Education Track have an immediate opening for a scientist/engineer in nanotechnology/bionanotechnology. The Department currently does research in a wide range of fields such as high-speed electronic systems, molecular structure and function, biomedical image analysis, ion channel structure and function, cellular signaling, ultrasound imaging and therapy, smooth muscle, cardiac muscle, and neuronal physiology among others. The successful candidate will have a Ph.D. or M.D. degree with a minimum two-five years experience in nationally competitive research in the field. The successful candidate will be expected to conduct nationally competitive and funded research, to collaborate with colleagues in both basic and clinical disciplines, to provide support for the educational mission of the Department. He or she should also be willing to train postdoctoral fellows as well as graduate students. Rank and salary will be commensurate with experience. Startup packages are available. Curriculum vitae, cover letter detailing experience, current interests and future plans and names of three individuals that can provide letters of recommendation should be sent to:

James F. Greenleaf, Ph.D. Basic Ultrasound Research Laboratory Department of Physiology and Biophysics Mayo Clinic 200 1st St. SW Rochester, MN 55905 Phone: 507 284-8496 Fax: 507 266-0361 E-mail: jfg@mayo.edu http://www.mayo.edu/ultrasound.html See also: http://www.mayo.edu/research/ Mayo Foundation is an affirmative action and equal opportunity employer and educator.



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Send resume and cover letter to: SciM Faculty-recruit@umuc.edu (attachments in MSWord, Wordperfect, or text) or to:

Office of Faculty Recruitment, SciM University of Maryland University College 3501 University Boulevard East Adelphi, MD 20783

AA/EEO

Chair Department of Anesthesiology Emory University School of Medicine

Emory University School of Medicine invites nominations and applications for the position of the Chair of the Department of Anesthesiology. This position offers outstanding resources and institutional commitment in the setting of a major academic health center.

The Department of Anesthesiology serves two Emory owned and three Emory affiliated hospitals including a freestanding pediatric hospital, and also The Emory Clinic. The case volume is one of the highest in the country with strong emphasis on cardiac and transplantation cases.

We are seeking an individual who has leadership capabilities, previous academic and administrative experience, the ability to develop and foster a preeminent departmental research initiative, and a commitment to maintain and enhance strong clinical programs in the context of the national changes in health care delivery. Candidates must be Board Certified in Anesthesiology and must be eligible for medical licensure in Georgia. Salary is commensurate with experience.

Applications and nominations should include a current curriculum vitae and names and addresses of three references. Submit materials to the Anesthesiology Chair Search Committee, c/o Office of the Dean, Emory University School of Medicine, 1440 Clifton Road, N.E., Ste. 320, Atlanta, Georgia 30322, attn: Ms. Shelle Bryant. The Search Committee will review applications until the position is filled. Emory University is an equal opportunity/affirmative action employer and encourages the application and nomination of qualified minority and female candidates.

UNIVERSITY OF VIRGINIA

Paul Mellon Prostate Cancer Research Institute

A bequest from the estate of Paul Mellon has established the Paul Mellon Prostate Cancer Research Institute at the University of Virginia Medical Center. The \$20 million gift will pioneer an interdisciplinary approach to research on prostate cancer. The goal of the Mellon Center will be to understand the molecular and cellular basis of the disease, and to discover therapies to prevent the onset or progression of prostate cancer. Faculty positions are available in basic and translational research aimed at understanding, diagnosing, treating and preventing prostate cancer.

Applicants should have a Ph.D. and/or M.D. or the equivalent. The rank and specific area of these positions are open, but established investigators are expected to have a demonstrated record of outstanding peer-reviewed research, and beginning investigators should have a record of scientific excellence and outstanding potential. An exceptional start-up package will be provided in addition to the resources available through the Mellon Institute. The starting date for these appointments will be fall 2001. Positions will remain open until filled.

Applicants should submit their curriculum vitae, a brief description of research plans and the names of at least three references to:

Mellon Institute Search Committee University of Virginia Health System Cancer Center P.O. Box 800334 Charlottesville, VA 22908

For more information about the Mellon Cancer Research Institute, please visit our website at: http://www.virginia.edu/insideuva/2000/29/mellon.html

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

Director, The Cancer Center at Saint Louis University

Saint Louis University School of Medicine and Tenet Healthcare-St. Louis, organizations dedicated to education, research and healthcare, are seeking nominations and applications for the position of Director of The Cancer Center at Saint Louis University. The Director will lead the organizational development of clinical service, biomedical research, and disease prevention programs essential to National Cancer Institute designation as a Comprehensive Cancer Center. The Director will hold the academic rank of tenured Professor, report directly to the Dean of the School of Medicine, and be accountable to the senior management of the University and Tenet-St. Louis for Center business operations. The resources of the Saint Louis University School of Medicine, and the teaching and patient care facilities co-operaed by the School and Tenet-St. Louis, will be made available to the successful candidate in order to enhance existing programs and to develop new initiatives. In cooperation with the clinical and basic science departments, this individual will lead several multi-disciplinary oncology patient care centers (i.e. SWOG, POG, RTOG). The state-of-the-art Cancer Center facility on the Health Sciences Center campus will start with approximately 50,000 nsf of newly renovated space for wet labs, clinical practice and outcomes research. Candidates should have national standing among scientific peers, administrative capabilities in the integration of translational oncology research programs, and senior AHC or NCI Cancer Center managerial experience. Nominations and applications containing a letter of interest and CV should be sent by March 1, 2001 to Alexander, Wollman & Stark, A Physician and Healthcare Executive Search Firm, 1601 Market Street, Suite 550, Philadelphia, PA 19103.

Saint Louis University is an affirmative action, equal opportunity employer and encourages applications of women and minorities.

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GERBER®	PHARMACOGENETICS DEPARTMENT	
	Bioinformatics: Systems Analyst/Program (1 Position in Gaithersburg, MD)	ming
SANDOSTATIN®	The successful candidates will be involved in development of scientific web database applic collaboration with scientists. Minimum Requi College education and experience with Java, 1 Oracle, PL/SQL, C and CGI. A background i genetics is desired. Experience with Oracle A Server is a plus. (Requisition #JB8851).	ations in close rements: Perl, SQL, n research and
DOAN'S [®]	Senior Scientist (1 Position in Gaithersburg The successful candidate will be part of a team annotates and organizes expression data from	n that analyzes, research
FEMARA®	projects and prepares it for patents and public Minimum Requirements: Ph.D. in cell biolog or a related field. Experience in gene expressi and patent writing is a plus. (Requisition #MI	y, biochemistry on profiling
HABITROLO	Assistant Scientists (7 Positions in Gaithers The successful candidates will be involved in genotyping and gene expression profiling, po of complex disease genes and mutation analy genes. Technologies used include general mo protocols, DNA/RNA extraction, PCR, seque	high throughput sitional cloning sis of candidate lecular genetics ncing and
LAMISIL®	cloning, microarray analysis. Minimum Requ in Molecular Biology, or related field. Candid excellent organizational skills, be efficient and Ability to adapt to new technologies and to w throughput and challenging environment is es (Requisition #MBG8865).	ates should have I dependable. ork in a high
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AREDIA®	The successful candidates will assist the Exec Director of Clinical Pharmacogenetics in imp Pharmacogenetics studies in Novartis' clinica wide. Responsibilities will include working c clinical teams to design pharmacogenetics cli	lementing l trials world- lirectly with nical studies,
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MAALOX®	in a pharmaceutical company. A background genetics is desired. Availability to assume the January 1, 2001 is preferred. (Requisition #K	in research and position before P8783)
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The Spirit of Discovery



The Vermont Cancer Center and the Department of Pathology in the University of Vermont (UVM) College of Medicine are seeking an investigator at the Associate or Full Professor level to lead an established program in cancer-related cell signaling and growth control research. Current funded areas of investigation include signaling in environmental carcinogenesis, cell proliferation, metastasis apoptosis, cell cycle checkpoints, and fibrosis and premalignant conditions. We are particularly interested in individuals with funded research programs focused on translation of basic knowledge in signaling research from laboratory model systems to treatment and prevention through targeted therapies. Interested individuals should have an MD, or MD/PhD, an established research program, proven leadership skills, and a strong record of achievement and recent productivity in cancer research. The Vermont Cancer Center is an NCI-designated Comprehensive Cancer Center with a highly interactive faculty, new research laboratories, contemporary core facilities, and significant private foundation support. The Department of Pathology supports basic research in environmental pathology, lung biology, cancer cell biology and cardiovascular biochemistry The UVM College of Medicine supports a wide range of basic and clinical research activities with approximately \$40M in grant funded research activity per year. Applications will be accepted until March 1, 2001. Please send your curriculum vitae and three references to: David W. Yandell, Sc.D., VCC Cell Signaling Search Committee, Vermont Cancer Center, University of Vermont, Medical Alumni Bldg., Burlington, VT 05405. Applications are encouraged from women and individuals of diverse racial, ethnic, and cultural backgrounds. AN EQUAL OPPORTUNITY/AFFIRMATIVE AC-TION EMPLOYER.

Management



BERNARD B. LEVINE FELLOWSHIP IN MALARIA BIOLOGY AND IMMUNOLOGY

A post-doctoral fellowship is available immediately for studies of the biology of the pre-erythrocytic stages of malaria parasites. The ultimate goal is to identify new antigens that elicit cell-mediated effector mechanisms that destroy the liver stages of the parasite. The candidate must have a PhD or MD degree, a solid background in molecular biology, and a good record of publications in international journals. Individuals with additional training in immunology/cell biology are encouraged to apply. The appointment is for a minimum of two years. The salary is commensurate to experience up to \$40,000 a year.

Please send curriculum vitae and the names and addresses of three referees to:

Dr. Victor Nussenzweig Department of Pathology NYU School of Medicine 550 First Avenue New York, NY 10016 E-mail: nussev01@popmail.med.nyu.edu



Tenure track positions in the Life Sciences with joint appointment in the University of Michigan Medical School and the College of Literature, Science and the Arts

The University of Michigan is soliciting applications for several tenure track positions at any level with an appointment held jointly in two departments, one in the School of Medicine and the other in the College of Literature, Science and the Arts (Biology, Chemistry, Mathematics, Physics or Statistics). These appointments are part of a University-wide initiative to expand research in the life sciences, broadly construed. Successful candidates are expected to establish an outstanding research program, to train doctoral and postdoctoral students, and to participate in the teaching activities of both units. A highly competitive salary and startup funds are available to support these positions. The search committee will begin to review applications on February 15, 2001. Applicants should submit a curriculum vitae and a two page summary of past research accomplishments and future research interests, and should have three letters of reference forwarded to: Carol A. Fierke and Dennis J. Thiele, Search Committee Co-Chairs, University of Michigan Medical School, Office of the Dean, Attention: Stephanie Campbell, 4101 Medical Science Building I/Box 0624, Ann Arbor, MI 48109-0624. For additional information on the University of Michigan Medical School and the partner departments in Literature, Science and the Arts, see www.lifesciences.umich.edu/research/position.html

The University of Michigan is an affirmative action/ equal opportunity employer.





Faculty Position in Developmental Neurobiology

An Assistant Member position is available in the Department of Developmental Neurobiology at St. Jude Children's Research Hospital (SJCRH).Preference will be given to applicants with research programs that complement the Department's existing strength in mammalian neurodevelopment. In particular, investigators studying neuronal stem cell biology are encouraged to apply. It is anticipated that successful applicants will have graduated within the past five years and have already achieved recognition through high profile publications.

SJCRH offers a very competitive package for incoming junior faculty. This includes: salaries for the investigator and their personnel; new laboratory space; as well as start-up and continuing support for equipment and consumables. In addition, appointees have access to a range of institutional core facilities for protein and nucleic acid chemistry, microarray facilities, gene knock-out and transgenic technologies. The Department is already well equipped for most aspects of anatomy and histology, cell and molecular biology, transgenics and electrophysiology.

There are presently seven faculty members in Developmental Neurobiology with the following research interests:

Tom Curran (Chairman) -Molecular basis of neurodevelopment

Jim Morgan (Co Chairman) -Neuronal death and regeneration

Richard Smeyne -Molecular models of neurodegenerative disease

Michisuke Yuzaki -Glutamate signaling in cerebellar plasticity

Suzanne Baker -Aberrant signal transduction in tumorigenesis

Jian Zuo -

Genetics of hearing and vision Cornelia Kurschner -

PDZ proteins and neuronal function.

Those interested in joining this multidisciplinary department should arrange to have their CV, a brief research proposal and three letters of recommendation sent to: The Developmental Neurobiology Search Committee, Attention: Ms. Carol Jacks/JOB CODE: F1228, St. Jude Children's Research Hospital, 332 N. Lauderdale St., Memphis, TN 38105-2794.

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Kimberly-Clark, is a recognized global leader in the manufacture of tissue, personal care and health care products with sales over 15 billion dollars. We have manufacturing operations in 48 countries and sell products in more than 150 countries.

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We are seeking creative, versatile and dynamic bioscientists in the following disciplines with a proven record of innovative thinking and accomplishments, and strong interest in the creation of technology-based new business in consumer health care products.

- · Biochemist with experience in molecular biology.
- Biochemist with experience in immunochemistry.
 Cell biologist or physiologist with experience
- in the human reproductive system.
- Biomaterial scientist with experience in pharmacokinetics or controlled release.
- Biochemist with experience In medical diagnostics.
- Pharmacist or Biochemist with experience

in developing and formulating skin care products.

A Ph.D. degree is preferred. Two to seven years of work experience, either industrial or academic, is desirable, but not required. Successful candidates must have a broad bioscience knowledge base, strong initiative, quick learning ability and entrepreneurial spirit as well as rigorous scientific training and research capability.

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- E-mail: K-C@Hiresystems.com Limit file size to 32 K. Rich text format files with minimal formatting are preferred.
- Fax: (781) 663-2481
- For files greater than 32 K, send via US Mail to: Kimberly-Clark Resume Processing Center, 37 Whitcomb Street, Walthan, MA 02453

Kimberty-Clark

Microbial Diversity and Function Assistant Professor of Biology

The Department of Biology and Wildlife and Institute of Arctic Biology at the University of Alaska Fairbanks seek a qualified candidate for a tenure-track Assistant Professor in Microbial Diversity and Function (available August 2001). This position is supported in part by our NSF Experimental Program to Stimulate Competitive Research (EPSCoR).

The successful candidate is expected to develop an extramurally funded research program applying molecular/genomic approaches to investigate the ecology, physiology or evolution of microbial (including mycorrhizal) communities in Arctic and Sub-Arctic environments. The research program should complement departmental strengths in ecosystem ecology, evolution, or systematics (http://mercury.bio.uaf.edu/). The University of Alaska Fairbanks conducts active research programs at the Bonanza Creek and Arctic Tundra (Toolik Lake) Long-term Ecological Research (LTER) sites. Available facilities include a modern greenhouse, the Arctic Region Supercomputing Center, and the Core Facility for Nucleic Acid Research (http://mercury.bio.uaf.edu/ ~core2.organizations/index.htm).

The assigned teaching component (one course in the first year and two courses/ year thereafter) will be a senior/graduate level course in microbial diversity/ functional genomics, and other courses, possibly including genetics, microbiology, molecular evolution, or general biology, based on the interests and expertise of the successful applicant and the needs of the department.

Applicants must have significant experience using modern molecular and functional genomics techniques and a Ph.D. in Biology or related field (postdoctoral experience is strongly preferred). Materials must be received by 15 February 2001. Send complete curriculum vitae, statements of research and teaching interests, reprints, and three letters of reference to: **Dr. Bert B. Boyer**, **Chair, Microbial Diversity and Function Search, Department of Biology and Wildlife, University of Alaska Fairbanks, Fairbanks, Alaska 99775**, ffbbb@uaf.edu, (907)474-7733, Fax (907) 474-6967.

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



CAREER FAIRS hosted by Science

February 19, 2001 San Francisco Hilton and Towers San Francisco, CA From 11am -4pm Held in conjuction with the AAAS Annual Meeting www.sciencecareers.org

June 19, 2001 University of California, Irvine Irvine, CA www.sciencecareers.org

August 13, 2001 Seaport Hotel Boston, MA www.sciencecareers.org

Also at the Seaport Hotel ... Drug Discovery Technology 2001 held August 13-17, 2001 www.drugdisc.com



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Your Qualifications

Ph.D. in biochemistry or related field, with experience in molecular and cellular techniques. Only candidates currently living in North America will be considered.

Your Challenges

Research will involve characterization of cell and molecular changes underlying the myocardial remodeling process. The studies will evaluate the expression and activity of matrix metalloproteinases (MMP's) and their regulation in models of heart failure. Research will also evaluate the molecular changes in response to cellcell and cell-extracellular matrix interactions and characterize the signaling pathways involved in myocardial remodeling.

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We are a world leader in the research, development, manufacture and marketing of a wide variety of health care, beauty care, laundry & cleaning, cosmetics & fragrances, food & beverage and paper products. Annual sales exceed \$38 billion and our annual R&D investment is more that \$1.7 billion. P&G offers a competitive salary and benefits package, placing us in the top 5% of U.S. firms. The Company's R&D organizations provide excellent opportunities for both personal and professional growth.

nature immunology seeks an ASSISTANT EDITOR

Nature Immunology is an international monthly research journal covering

all aspects of immunology. This exciting *Nature* monthly seeks an Assistant Editor to participate in the development of the highest quality immunology venue. The Assistant Editor will select research manuscripts, commission Reviews, Commentaries and News & Views, edit manuscripts for clarity and write. Maintaining close ties with the immunology community is essential to the position, which provides ample opportunity for travel to institutions, meetings and conferences. Applicants should have a Ph.D. and postdoctoral experience with a strong research background in immunology, a broad understanding and interest in the field, excellent literary skills and an enthusiasm for and commitment to the communication of science.

Based in our established central New York City office, the Nature Immunology team is part of a dynamic editorial and publishing environment that includes Nature Genetics, Nature Structural Biology, Nature Medicine, Nature Biotechnology and Nature Neuroscience. The successful applicant will also enjoy a close working relationship with the Londonbased Nature and Nature Cell Biology teams.

To apply, please submit a CV, a short (700-900 words) News & Viewsstyle article on an exciting and newsworthy recent development in any area of immunology and a short cover letter explaining your interest in the post, to Dr. Linda J. Miller, Editor, *Nature Immunology*, Nature America, 345 Park Avenue South, New York, NY 10010 (fax 212.696.9594; admin@natureny.com) to arrive as soon as possible and **not later than 2 February 2001.**

REGIONAL GEOGRAPHER ES-0000*

The U.S. Geological Survey (USGS) is seeking candidates for the full-time position of Regional Geographer, Western Region, located in Menlo Park or Sacramento, California, or Flagstaff, Arizona. This position is described as interdisciplinary and may be filled in one of the following series: geographer, biologist, physical scientist, hydrologist, geologist, or cartographer. Salary range for this position is \$127,625 to \$133,700 per annum.

The National Mapping Program of the USGS provides geographic and cartographic data, information and related research to meet the broad requirements of the resource managers and earth scientists in solving national challenges such as disaster response and mitigation, land and resource development, pollution abatement, transportation planning, urban development, and recreational use. The Regional Geographer, Western Region, is responsible to the Regional Director for the planning, development, management and implementation of regional level integrated and disciplinary natural science and information programs. In addition, the Regional Geographer provides scientific leadership and executive direction to the Western Region Mapping Center.

Individuals interested in this position should contact the Human Resources Office at (703) 648-6131 to receive a complete vacancy announcement which describes job requirements (including Knowledge, Skills, and Abilities (KSA's) required for the position), an application, and evaluation procedures. Applications (Optional Application for Federal Employment (OF-612), or resume) must be received at the address referenced below by February 16, 2001, and should reference SES-01-01. A Reference and Qualifications Analysis form and a narrative qualifications statement addressing the KSA's should also be submitted by the above date and will be used in the evaluation of candidates.

Applications can be mailed, faxed, or delivered in person. Regardless of the method of delivery, it is your responsibility to ensure your application's successful conveyance. Faxed applications must not exceed 10 pages in length and must be received by 12:00 midnight on the closing date of the announcement. Mailed or hand delivered applications must be received by the close of business (4:30pm) on the closing date specified in the announcement.

U.S. Geological Survey, Headquarters Operations, 601 National Center, Reston, Virginia 20192 FAX (703) 648-4113 The U.S. Geological Survey is an Equal Opportunity Employer. U.S. citizenship is required. U.S. Geological Survey



MAYO CLINIC FACULTY POSITIONS DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

The Department of Biochemistry and Molecular Biology at Mayo Clinic-Rochester (http://www.mayo.edu/mgs/bmb/) announces openings for faculty positions at the assistant and associate professor level. Qualified individuals are expected to initiate and maintain an outstanding research program and to contribute to educational activities in Mayo Graduate School and Mayo Medical School. The department is seeking to supplement existing strengths be recruiting faculty members who are interested in the following areas:

Biochemistry and Structural Biology, with a focus on exploring, predicting and designing macromolecular interactions, including protein-protein, protein-nucleic acid, and receptorligand complexes. Individuals with training in structural biology techniques such as NMR spectroscopy, computational structure prediction, and/or x-ray crystallography are particularly encouraged to apply.

Cell Biology and Genetics, with a focus on basic cell biological and developmental mechanisms relevant to human disease. Individuals with interest and expertise in functional genomics using model organisms such as yeast, fly, worm or zebrafish are especially encouraged to apply.

Outstanding applicants with research interests in other areas will also be given full consideration. Successful candidates will have an opportunity to interact with basic and medical scientists in areas of cell and molecular biology, structural biology, gene therapy, and medicine. Applicants should send a curriculum vitae, a statement of research interests, and three letters of recommendation before February 15, 2001 to:

Eric D. Wieben, PhD, Chair Biochemistry and Molecular Biology Mayo Clinic 200 First St. SW Rochester, MN 55905

Application materials may also be submitted by e-mail to pearson.debra@mayo.edu. See also: http://www.mayo.edu/research/

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InGenuity Systems, a dynamic, fast growing pre-IPO company, is currently offering consulting contracts to Ph.D. level biologists (senior Ph.D. students will also be considered) interested in developing a state of the art information resource for life scientists. As a Consulting Scientist, you will review and interpret experimental findings from the leading peerreviewed journals. You will then enter these findings into our genomics Knowledge Base using our standardized information language. You will work from the comfort of your own home, in your own time and be your own boss. To qualify, you must have access to a computer with Internet access, email and a printer. Apply online at www.ingenuity.com for the Consulting Scientist position OR refer a friend and earn \$100 (details on our web site).



GPC Biotecb is a transatlantic biotecb company committed to finding platmaceutical solutions using genomics and proteomics. GPC Biotecb completed a very successful IPO in May 2000 on the Neuer Market in Germany

and bas research facilities in Munich and Cambridge (formerly Mitotix). We are committed to using our genomics and proteomics' platforms to accelerate and optimize our drug discovery programs as well as those of our pharmaceutical partners.

TUMOR BIOLOGISTS

We are seeking tumor biologists to join our Tumor Apoptosis program. These positions require either a Ph.D. or M.D. and 1-3 years of postdoctoral training. The individuals would work independently in a team-oriented environment in cutting-edge drug discovery research. The ideal candidates will be proficient in cancer cell biology, with a background in experimental clinical applications and/or in ivoo animal models. Job Cole: TBICO1

GPC Biotech, Inc., besides offering competitive salaries, benefits and a chance to work in an exciting scientific environment, also offers the choice of fully paid parking or an MBTA pass. Please send your resume to: Human Resources, GPC Biotech, Inc., One Kendall Sq., Bldg. 600, Cambridge, MA 02139: Fax: 617-225-0005; Email: br.cambridge@gpc-biotech.com



DIRECTOR DIVISION OF NEW DRUG CHEMISTRY II

The Food and Drug Administration, Center for Drug Evaluation and Research, Office of Pharmaceutical Science, Office of New Drug Chemistry is recruiting a Director for the Division of New Drug Chemistry II.

The Director is responsible for planning and managing, organizing and directing all regulatory chemistry, manufacturing and controls (CMC) review activities related to human new drugs (IND/NDA), program segments, function and activities of the Division as carried out by subordinate team leaders and a highly trained and skilled staff of scientific professionals. The Director develops and implements Center's CMC policies and plans, and makes critical decisions and provides expert advice and counsel concerning approaches and objectives. Determines the Division requirements in terms of budget, staff resources, personnel, and equipment facilities and systems support necessary for the success of the Division.

Qualifications: Applicants must have successful completion of a four-year course of study in an accredited college or university leading to a bachelor's (or higher) degree with major study in physical sciences, life sciences, or engineering that included at least 30 semester hours in chemistry, supplemented by course work in mathematics through differential and integral calculus, and at least 6 semester hours of physics OR a combination of education and experience-course work equivalent to a major as described above, plus appropriate experience or additional education. Candidates for Civil Service or U.S. Public Health Service Commissioned Corps must be U.S. citizens. Graduates of foreign colleges/universities must provide proof of U.S. education equivalency certification.

Desired Experience: A Ph.D. degree with appropriate postdoctoral experience is desirable.

Salary Range: Civil Service GS-15 \$87,864 to \$114,224 per annum, including an excellent benefits package, training and flexible work schedule.

Application for this position must be made on or before February 9, 2001. Submit resume with a cover letter indicating that you are applying for the position of **Director**, **Division of New Drug Chemistry II under source code 101012 to Food and Drug Administration**, 7520 Standish Place, MPN1, **Room 211**, **HFD-63**, **Rockville**, **Maryland 20855**, **Attn: Angela Harris**. The FDA is an Equal Opportunity Employer and has a smoke free environment.

Harvard University

VERTRI

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DEPARTMENT OF EARTH & PLANETARY SCIENCES

The Department of Earth & Planetary Sciences at Harvard University seeks to fill two or more faculty positions at the Assistant or Associate Professor level (untenured). Candidates from all fields of earth sciences including atmospheric sciences, oceanography, geobiology, geochemistry, geophysics, geology, and planetary sciences are encouraged to apply.

Applicants should send a statement of research interests, curriculum vitae, and the names of three references to:

Professor Jeremy Bloxham, Chair Department of Earth & Planetary Sciences Harvard University 20 Oxford Street Cambridge, MA 02138 USA

We will begin reviewing applications on December 1st. We particularly encourage applications from women and minorities. Harvard University is an Affirmative Action/Equal Opportunity Employer. For more information about the department, you may visit our web site at www.eps.harvard.edu.



IOWA STATE UNIVERSITY

Chair, Department of Horticulture

lowa State University, one of the nation's leading land-grant institutions, seeks a distinguished individual for professor and chair of its horticulture department. The department's mission is to create and maintain teaching, research, and extension programs and to promote enthusiasm and excitement for the science, production, and creative utilization of plants for the betterment of lowans, and society, in general.

The department has 18 tenure-track faculty who are supported by 22 technical and clerical staff serving 300 undergraduate students and 20 graduate students. Visit our Web site at http://www.hort.iastate.edu/ to learn more.

The chair will provide visionary leadership, direction, and fiscal responsibility. Applicants must have an earned doctorate in a relevant scientific field; possess excellent communication skills and demonstrated leadership ability; an internationally recognized record of strong scholarship in teaching, research, and/or extension; and qualify for tenure at the rank of professor in the department. This is a full-time position with a 12-month continuing appointment in the College of Agriculture, Agriculture and Home Economics Experiment Station, and Cooperative Extension, subject to five-year review.

Salary will be commensurate with qualifications and experience. Applicants should send curriculum vitae; the names, addresses, and phone numbers of five references; and a statement addressing administrative philosophy and ability to provide effective leadership to a diverse department. Confidential inquiries and nominations are welcome. Send applications and nominations to Tom Loynachan, Chair, Search Committee, Iowa State University, 2101 Agronomy Hall, Ames, IA 50011-1010 (515) 294-7636, Fax: (515) 294-3163, e-mail teloynac@iastate.edu. Applications will be considered until the position is filled. However, to ensure full consideration, submit application materials by March 1, 2001.

Iowa State University is an equal opportunity/affirmative action employer and encourages nominations of, and applications from, women and minority candidates.

We're looking for people who are looking for work ...

...to participate in a *Science* survey on how professionals like yourself conduct a job search and explore new career opportunities. The information you provide will enable us to better tailor the classified advertising content of *Science* (printed and online) to your career needs. And naturally, all information will be kept strictly confidential.

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- **3. E-mail** your coupon information in the body of a message to: sciencesurvey@aaas.org

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Research with Teaching Postdoctoral Fellowship Positions Available

NIH funded Post-doctoral Research and Education Program (PREP) seeks applications from Post-doctoral Fellows interested in teaching and research.

Fellowships include 3 years of support for research (~80% time) with a research mentor and a concurrent program in learning to teach (~20% time) with lectures, workshops, practice teaching at minority serving colleges, and learning to use the World Wide Web for course development. Most areas of biological research are available in the laboratories of funded faculty research mentors at Emory University, Morehouse School of Medicine, Morehouse College, Clark-Atlanta University and Spelman College, all in Atlanta, Georgia. Teaching mentors also include faculty at Morris Brown College.

Fellows must have successfully completed an M.D. or Ph.D. in a science or related field. Fellows must be US citizens or permanent residents. Underrepresented minorities are strongly encouraged to apply for these fellowships.

Visit our website at www.emory.edu/WHSC/MED/PHYSIOLOGY/ PREP for the PREP research and teaching mentors, application forms and deadline information.

Questions? Email us at PREP@emory.edu

Applications should be sent to PREP, c/o Dr. Robert B. Gunn, Director, Emory University School of Medicine, Department of Physiology, Atlanta, GA 30322-3110. FELLOWSHIPS CAN BEGIN IMMEDIATELY!

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Faculty Positions

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For more information	a call Daryl Anderson:
Tel	202-326-6543
Fax	202-289-6742
E-mail	danderso@aaas.org



GRADUATE FELLOWSHIPS CENTER FOR THE STUDY OF EVOLUTION AND THE ORIGIN OF LIFE UCLA

ORIGIN OF THE UNIVERSE... FORMATION OF EARTH... BEGINNINGS OF LIFE... EVOLUTION OF THE BIOSPHERE... EMERGENCE OF HOMO SAPIENS.. Astronomy, Geology, Paleontology, Molecular & Microbiology, Exo-Cosmo-Astrobiology!!

CSEOL invites applications for five graduate fellowships for 2001-2003. In addition to support provided Fellows by UCLA departments, CSEOL will grant each Fellow a stipend of \$5,000 per year for each of the first two years of graduate study, with no teaching or other duties. Stipends may be used for any purpose the Fellow deems appropriate — travel, lodging, attendance at scientific meetings, purchase of books, computers, research equipment — for any purpose, without restriction. Fellows are included in a select group of graduate students invited to interact with Center faculty in a weekly dinner/ seminar/discussion series. Applicants should be planning to carry out doctoral research under the direction of a CSEOL faculty member in a subject relating to the ORIGIN and/or EVOLUTION of the Cosmos, Solar System, planet Earth, the environment, living systems, humans, life elsewhere in the Universe — with particular emphasis on:

> When and how did life begin? How did life evolve so far, so fast, so early?

Faculty are members of the UCLA Departments of Anthropology, Atmospheric Sciences, Biology, Chemistry & Biochemistry, Computer Science, Earth & Space Sciences, Microbiology, Physics & Astronomy; the School of Medicine; the School of Public Health; the Institute of Geophysics and Planetary Physics; and the Molecular Biology Institute.

Prospective Fellows must apply (preferably, by 12 February 2001) both to an academic department and to *CSEOL*. For application forms and a list of *CSEOL* members, contact: *CSEOL Fellows Committee Geology Building*, Room 5687, University of California, Los Angeles, Los Angeles, CA 90095-1567, Telephone: (310) 825-1170 FAX: (310) 825-0097. E-mail: Schopf@ess.ucla.edu or Mantonya@ess.ucla.edu

nature *neuroscience*

seeks an **ASSISTANT EDITOR**

Nature Neuroscience, a leading monthly journal from the publishers of Nature, has a position available for an Assistant Editor. The journal publishes high-quality papers in all areas of neuroscience, including molecular, cellular, systems, cognitive and computational studies, and provides a highly visible forum for communicating important advances to a broad readership. Further information may be found on our web site (http://neurosci.nature.com).

Applicants should have a strong research background in neuroscience, a broad interest in the subject, excellent literary skills, and a commitment to the communication of scientific ideas. Molecular research experience is an asset, but more important is a willingness and ability to learn new fields. The successful candidate will participate in all aspects of the editorial process, including manuscript selection, commissioning and editing News and Views and Reviews, and writing for the journal. The job also involves attending meetings in the US and abroad, and maintaining contact with the international scientific community. The new editor will join our team in the Manhattan office of the larger publishing group that also produces Nature Genetics, Nature Medicine, Nature Biotechnology, Nature Structural Biology and Nature Immunology.

Please submit a curriculum vitae, a short (500-1000 words) News and Views-style article on an exciting and newsworthy recent development in any area of neuroscience, and a cover letter explaining your interest in the position to The Editor, *Nature Neuroscience*, 345 Park Avenue South, New York, NY 10010 (fax: 212-696-0978; e-mail: neurosci@natureny.com). Applications should arrive as soon as possible, and **no later than 11 February 2001.**





MAYO CLINIC CANCER INVESTIGATOR

Excellent facilities and research environment are available for an established or highly promising investigator in the field of cancer biology. The successful applicant will have full privileges within the Mayo Cancer Center and substantial institutional support will be directed to the development and sustained operations of his/her laboratory; faculty rank is open. Individuals engaged in the study of hematologic malignancy, viral pathogenesis as related to cancer, or having experience with the development and application of molecular genetic methods to the study of cancer are particularly encouraged to apply.

Send curriculum vitae, bibliography and names of three references to:

C. David James, Ph.D. Division of Experimental Pathology Mayo Clinic Hilton Building, Room 820-D 200 First St. SW Rochester, MN 55905

See also: www.mayo.edu/research/experimental pathology/people/

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



Postdoctoral positions using mouse model systems to study signal transduction and cancer biology

The Biochemistry Department specializes in the generation and analysis of mutant mice, with a focus on the molecular and cellular biology of signal transduction, hematopoietic development, and cancer. The research programs within the Department offer recent Ph.D. or M.D. graduates a highly interactive environment for training in a large variety of contemporary molecular and biochemical techniques. SJCRH offers very competitive salaries and fringe benefits. Current research programs within the Department include:

Paul Brindle: The study of transcriptional coactivators using mouse knock-in and conditional knock-out mutants. *MCB* 18:2218 (1998); *MCB* 19:764 (1999); *MCB* 19:5601 (1999).

John Cleveland: Regulation of apoptosis in hematopoiesis and leukemia; c-Myc function in development, apoptosis, and transformation. Genes & Dev. 12:2475 (1998); Genes and Dev. 13:2658 (1999).

James Ihle: Positive and negative regulation of cytokine signal transduction pathways. *Immunity* 13:25 (2000), Cell 98:609 (1999), Cell 98:617 (1999).

Paul Ney: Mechanisms of erythroid cell development, proliferation, and differentiation. Blood 91:3459 (1998); Nat. Genet. 23:159 (1999).

Gerard P. Zambetti: Characterization of regulators and mediators of the p53 tumor suppressor pathway. MCB 18:3735 (2000); Genes & Dev. 14:2358 (2000).

Applicants should submit a brief statement of research interests, curriculum vitae, and names of three references to:

Biochemistry Departmental Fellowships Department of Biochemistry St. Jude Children's Research Hospital 332 N. Lauderdale Memphis, TN 38105

http://www.stjude.org/ departments/d-biochem.htm

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ASSISTANT PROFESSOR (TENURE TRACK) CLINICAL IMMUNOLOGIST Clinical Laboratory Sciences Program University of Wisconsin–Milwaukee

The Clinical Laboratory Sciences Program in the Department of Health Sciences invites applications and nominations for a tenure-track faculty position in the area of clinical immunology starting August 20, 2001. The position is an academic-year faculty appointment with potential for a summer appointment. Salary is competitive and based on qualifications and experience. The Program offers a B.S. degree with submajors in medical technology, cytotechnology, and biomedical science and an M.S. degree in clinical laboratory sciences. The successful candidate will contribute to the academic mission of the University and the School of Allied Health Professions while enhancing the research and scholarship of the Department. Responsibilities will include teaching undergraduate and graduate courses in the area of clinical immunology and developing a vigorous research program supported by extramural funding that complements the research interests of the faculty (website: www.uwm. edu/sahp). Active participation on Program, depart-mental, school, and University committees is also expected. Applicants must have a Ph.D. in immunology or related area with an emphasis in clinical immunology. Postdoctoral experience preferred. Candidates with academic and research experience in clinical immunology, clinical laboratory certification MT (ASCP) or CLS (NCA), and experience in immunohematology are especially encouraged to apply. For consideration, please send a letter of application and statement of academic and research interests; curriculum vitae; and three letters of recommendation postmarked by February 14, 2001, to: Victor Skrinska, Ph.D., Chair, Search and Screen Committee, Department of Health Sciences, University of Wisconsin-Milwaukee, P.O. Box 413, Milwaukee, WI 53201. The University of Wisconsin is an Equal Opportunity Institution committed to diversity.

The Division of Infectious Diseases and Geographic Medicine at Stanford University is seeking a FAC-ULTY MEMBER (open rank) for the Palo Alto Veteran's Administration Hospital. The successful candidate will be an outstanding teacher, clinician, and clinical scholar. Responsibilities will include directing the infectious diseases training program at Stanford, attending in the infectious diseases inpatient and outpatient services, and participating in scholarly activities in infectious diseases. Experience in clinical investigation is desirable. Candidates must be Board-certified in internal medicine and infectious diseases. Qualified applicants should submit curriculum vitae and names of three references to: Peter M. Small, M.D., Associate Professor of Medicine, Room S-156, Stanford Medical School, Stanford, CA 94305-5107. Our medical school is committed to increasing representation of women and members of minority groups among its faculty and particularly encourages applications from such candidates

TWO ASSISTANT PROFESSOR TENURE-TRACK POSITIONS Texas A&M University

Commerce Physical Chemist: Ph.D. required in chemistry. Seeking a person with broad interdisciplinary interests. Bioorganic Chemist/Cellular/Molecular Biologist: Ph.D. required in organic or biochemis try with expertise in cellular/molecular biology. To apply, contact: Dr. Don R. Lee, Chair, Search Committee, Department of Biological and Earth Sciences, Texas A&M University-Commerce, Commerce, TX 75429-3011. See the full description of positions at website: http://www.tamu-commerce. edu/jobline/FACULTY.htm. Equal Opportunity/Affinuative Action Employer.

POSITIONS OPEN

FACULTY POSITIONS DEPARTMENT OF CHEMICAL ENGINEERING Case Western Reserve University

The Case School of Engineering invites applications for one or more faculty positions in the Department of Chemical Engineering. The Department will consider outstanding candidates with expertise in the following areas: (1) bioprocess or biochemical engineering; (2) systems, optimization, design, and control; and (3) membrane transport, electrochemical energy conversion, and sensors. The appointments will be at the ASSISTANT or ASSOCIATE PRO-FESSOR level for the 2001–2002 academic year. Candidates must be committed to excellence in both teaching and research. Currently, the Chemical Engineering Department serves over 40 graduate students and 150 undergraduate majors. Its 13 faculty have strong, well-funded, established research programs in fuel cells, advanced electrodeposition, materials synthesis, microfabrication and sensors, polymer microdevices and composites, particle and colloidal process-es, and inprocess control. The faculty is active in major interdisciplinary research centers in materials, sensors, and electrochemistry. Case Western Reserve University is a diversified private university with 9,800 students (undergraduate and graduate) from all 50 states and 101 countries. CWRU is located in the center of Cleveland's vibrant cultural district and medical hub. The immediate region is home to a broad industrial base; extensive recreational activities; and an unusually wide range of artistic, cultural, and musical opportunities. Please send applications including curriculum vitae, three letters of recommendation, and statements of teaching and research interests to: Professor Syed Qutubuddin, Faculty Search Committee, Department of Chemical Engineering, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-7217. Website: http:// cheme.cwru.edu. In employment as in education, CWRU is committed to Affirmative Action and Equal Opportunity.

The Department of Biochemistry and Biophysics at the University of Pennsylvania seeks a **RESEARCH** ASSISTANT PROFESSOR (nontenure track) in the area of the structure/function studies of the energy-transducing NADH-quinone oxidoreductase of the oxidative phosphorylation system. The appointee will be expected to participate in an intensive team effort of research on the molecular mechanism of NADH-quinone oxidoreductase and its relevant issues in the medical field. Applicants should have at least three years of postdoctoral experience with biochemical and biophysical background. Technical expertise in current methods of molecular biology and/ or genetics is highly desirable. Send curriculum vitae and research interests summary and arrange for three letters of reference to be sent to: Ms. Ruth Keris, Staff Assistant, Department of Biochemistry and Biophysics, University of Pennsylvania School of Medicine, Philadelphia, PA 19104-6059. FAX: 215-573-2085; e-mail: keris@mail.med.upenn. edu. Deadline for applications: April 30, 2001. The University of Pennsylvania is an Equal Opportunity/Affirma-tive Action Employer. Women and minorities are strongly encouraged to apply.

UNIVERSITY OF FLORIDA

Seeks an ASSISTANT/ASSOCIATE PROFES-SOR or a CLINICAL ASSISTANT/CLINICAL ASSOCIATE PROFESSOR in the Department of Medicine, Division of Cardiology. M.D. degree specializing in cardiovascular medicine. The responsibilities will include patient care at the VA Medical Center, cardiology clinic and inpatient service, and also clinical duties at the CVC clinic one-half day a week. Basic research is also included as part of the position responsibilities. Salary and benefits commensurate with experience. Recruiting deadline: February 28, 2001. Anticipated starting date: July 1, 2001. Please respond with curriculum vitae to: C. Richard Conti, M.D., Eminent Scholar, Division of Cardiology, Box 100277 JHMHC, Gainesville, FL 32610. An Eaual Opportunity/Affirmative Action Employer.

POSITIONS OPEN

VICE PRESIDENT FOR ACADEMIC AFFAIRS

Arkansas State University–Jonesboro invites nominations and applications for the position of Vice President for Academic Affairs. We seek a dynamic and visionary leader to help us achieve our mission: We pursue and share knowledge within a caring community that prepares students in challenging and diverse ways to become more productive global citizens.

Position: The Vice President is the chief academic officer who advises and reports to the President and who leads the academic community. As a visionary leader, the Vice President must allocate resources to the academic units of the University while overseeing the development, execution, and evaluation of their academic programs. The Vice President will articulate goals to achieve the University mission while maintaining effective relationships with a broad range of internal and external constituents.

Desired qualifications: The candidate must have an earned Doctorate or terminal degree in an academic discipline from an accredited university, evidence of noteworthy scholarship or professional activity, and demonstrated successful higher education administrative responsibility.

The University: Information about Arkansas State University and this position can be found at **website: www.astate.edu/vpaa**. Addition al information is available through the contact listed below.

Review of applications will begin March 15, 2001, and continue until the position is filled. To assure full consideration, all materials should be received by March 1, 2001. Interested persons should submit a cover letter and curriculum vitae to:

Dr. Leslie Wyatt, President Arkansas State University P.O. Box 10 State University, AK 72467 Telephone: 870-972-3030 FAX: 870-972-3465 E-mail: president@astate.edu

The University will make no contacts regarding an applicant until the applicant gives approval. The position is available immediately. ASU is an Affirmative Action/Equal Opportunity Employer. Women and racial minority candidates are encouraged to apply.

United States Department of Agriculture, Research, Education, and Extension (REE), Agricultural Research Service (ARS), Northern Plains Area, Cereal Crops Research Unit of the Red River Valley Agricultural Research Center at Fargo, North Dakota, seeks a permanent, full-time Scientist with demonstrated expertise in plant genetics or plant pathology to serve as **RESEARCH LEADER**. The incumbent will be responsible for all aspects of the unit management including research on genetic improvement/disease biology of barley, oat, or wheat; interaction with USDA administrators and cooperators in universities and industry. The incumbent will maintain a research program in his/her area of specialty. U.S. citizenship and a Ph.D. or equivalent are required. Salary commensurate with experience (\$70,457 to \$107,738). Comprehensive benefits package includes paid sick leave and annual leave, life and health insurance, a savings and investment plan (401[k] type), and a federal retirement plan. For information on the research program and/or the position, contact: **Dr. Will Black-burn; Telephone: 970-229-5557; e-mail; blackbuw@** ars.usda.gov. Additional information about the position and application procedures can be obtained via the REE website: www.ars.usda.gov/afm/ hdr/resiobs. Applications must be postmarked by the closing date. United States Department of Agriculture/Agricultural Research Service is an Equal Opportunity Employer.



Brigham & Women's Hospital and Harvard Medical School

Bioinformatics



FACULTY POSITION

The Departments of Medicine and Pathology at Brigham & Women's Hospital and Harvard Medical School, in conjunction with the Harvard-M.I.T. Division of Health Sciences and Technology (HST), seek an outstanding tenure track Assistant or Associate Professor in Bioinformatics. Applicants should possess Ph.D., M.D., or M.D., Ph.D. degrees and relevant postdoctoral experience. Areas of particular interest include design and application of tools and databases for analysis of: genomic sequences, transcriptional profiling data, and polygenic contributions to human disease. The successful applicant will enjoy an outstanding competitive start-up package, excellent space and state of the art core facilities, and will be able to interact with existing Bioinformatic initiatives at BWH, HMS and MIT.

STAFF SCIENTIST AND POSTDOCTORAL POSITIONS

The Genetics Division in the Dept. of Medicine at Brigham & Women's Hospital and Harvard Medical School, and the Dept. of Genetics at Harvard Medical School seek an outstanding, non-tenure track Staff Scientist and one or more Postdoctoral Scientists in Bioinformatics. Successful candidates will join the Research Group of Prof. George M. Church in the HMS Dept. of Genetics and will be physically based in the Genetics Division at nearby Brigham & Women's Hospital, a Harvard-affiliated teaching hospital. The objective is to foster the development of state of the art informatics tools in medically relevant areas such as genomics, cancer and developmental biology. Applicants should possess Ph.D., M.D., or M.D., Ph.D. degrees and, for the Staff Scientist Position, relevant postdoctoral experience.

For all positions, send cv, a description of research interests, and names of three references by March 1, 2001 to:

Richard Maas, M.D., Ph.D. Chief, Genetics Division Department of Medicine Brigham & Women's Hospital Thorn Research Bldg., Rm. 1019 20 Shattuck St. Boston, MA 02115

BWH and HMS are equal opportunity employers

Postdoctoral Position in Chemistry–Biosciences

B-S1 (The Leo Szilard Resource) in the Bioscience Division is seeking qualified candidates for several postdoctoral positions that are available immediately in a multi-disciplinary team developing stable isotope labeling, stable isotope assisted NMR, solution or solid phase asymmetric methods and peptidic biomimetics. Experience in one or more of the following areas is required: organic and stereoselective methods, solid phase chemistry, peptide, amino acid, nucleic acid, and/or stable isotope labeling chemistries. A Ph.D. completed within the last three years or soon to be completed is required

A Ph.D. completed within the last three years, or soon to be completed, is required. Further details about the Postdoctoral Program may be found at: http://www.hr.lanl.gov/postdoc/

For consideration, submit a resume and publications list along with a cover letter outlining current research interests to postdoc-jobs@lanl.gov (reference SCIENCE-PD006067) OR SUBMIT TWO COPIES to: Postdoc Program Office, SCIENCE-PD006067, MS-P290, Los Alamos National Laboratory Los Alamos, NM 87545.





Dean College of Veterinary Medicine and Biomedical Sciences

Colorado State University invites applications and nominations for the position of Dean of the College of Veterinary Medicine and Biomedical Sciences. This is an exciting opportunity for an individual to provide visionary leadership necessary to lead the College in the 21st century.

The College of Veterinary Medicine and Biomedical Sciences has an integrated mission in education, research, and service and a strong record of excellence among its peer institutions. The Dean serves as the chief administrative officer. Information about the College and this position can be found at http://www.cvmbs.colostate.edu.

Qualifications: The candidate should be a distinguished veterinarian with a documented history of teaching and scholarly excellence, supporting an appointment as a tenured full professor in one of the departments of the college. The candidate shall have an earned degree in Veterinary Medicine (D.V.M. or equivalent) with an advanced degree (M.S., Ph.D.) being desirable. In addition, applicants for the position of Dean of Veterinary Medicine and Biomedical Sciences must present evidence that clearly demonstrates the following:

- · Administrative experience comparable to a department head or above
- Outstanding communication skills
- Proven leadership ability and integrity
- · Commitment to enhancing veterinary medical education and research
- Commitment to enhancing undergraduate and graduate education and research
- · Commitment to enhancing the diversity of students and faculty
- Experience with establishing partnerships and/or collaborative relationships both within the university and with the private and public sectors.

Deadline for Applications: March 15, 2001 or until filled. Applicants should send a letter expressing their interest and qualifications for the position, including a summary of their personal innovations and accomplishments related to leadership and management, veterinary medical education, research, and diversity enhancement. Include a curriculum vitae and the names, addresses, and phone numbers of five references. Nominations should include the name and complete address of the nominee. Nominations and applications should be sent to: John C. Raich, Dean, College of Natural Sciences, 117 Statistics, Colorado State University, Fort Collins, CO 80523-1801, Phone: 970-491-6864 FAX: 970-491-6639 Email: jraich@lamar.colostate.edu. Colorado State University is an EEO/AA employer.

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POSITIONS OPEN

PROFESSOR AND CHAIR VETERINARY AND MICROBIOLOGICAL SCIENCES North Dakota State University

The College of Agriculture at North Dakota State University invites applications and nominations for the position of Chair, Department of Veterinary and Microbiological Sciences. Preference will be given to applicants with expertise in pathogenesis of infectious disease. The position will be filled at the rank of **FULL PROFESSOR**. Candidates must have evidence of research productivity, a successful record of grant procurement, a desire to maintain an active research program, and a strong commitment to graduate and undergraduate education. The successful candidate will bring vision and energy to the challenges of shaping the future direction of the Department while sustaining the Department's teaching, research, and outreach programs. Candidates must have a good understanding of outreach and extension activities and be able and willing to relate these activities to the livestock industry and other external stakeholders. A competitive salary and an attractive start-up package plus future opportunities to hire new faculty and to develop a new doctoral program are available. Consideration of applications will begin February 15,

2001, and will continue until the position is filled. Appointment is available July 1, 2001. Submit curriculum vitae, statement of qualifications and administrative philosophy, and names and contact information for five references to: Dr. Will Bleier, Chair, VMS Search Committee, 218 Stevens Hall, North Dakota State University, Fargo, ND 58105. Telephone: 701-231-8421; e-mail: William_Bleier@ ndsu.nodak.edu; website: www.ndsu.edu/ndsu/ holbrook/nonclass.stm. NDSU is an Equal Opportunity Institution.

BIOMETRY/BIOINFORMATICS. ASSISTANT PROFESSOR, tenure track. Position available August 2001. Position initiated with a grant from Howard Hughes Medical Institute. Salary: \$38,000 (nine months). Initial role (first three years) is to coordinate undergraduate curriculum innovations for inquiry-based activities, quantitative data analyses, and enhancing bioinformatics components of upperdivision courses. Opportunities to develop course in specialty, direct undergraduate and M.S. research, and develop research collaborations with medical school and computer sciences faculty. By time of appointment, Ph.D. required in biological sciences, applied mathematics, and statistics or computer science with substantial background in biology, biometry, bioinformatics, and information technology. Send curriculum vitae; statements of teaching and research goals; graduate transcripts; up to three reprints; and arrange to have three letters of reference sent by February 21, 2001, to: Dr. Foster Levy, Bioinformatics Search Committee Chair, Department of Biological Sciences, East Tennessee State University, Box 70703, Johnson City, TN 37614. E-mail: levyf@ etsu.edu; website: www.etsu.edu/biology. Affirmative Action/Equal Opportunity Employer.

LECTURER WILDLIFE ECOLOGY/ORNITHOLOGY

Temporary full-time one-year position. Ph.D. required at time of appointment. Candidate must demonstrate interest and ability to teach undergraduates; dedication to superior teaching is a tradition at Humboldt State University. Responsibilities include 15 semester units of teaching. Applicants should demonstrate background and expertise in wildlife ecology and management and ornithology. Successful candidate may teach introduction to wildlife conservation and administration, wildlife ecology and management, and ornithology or other assigned courses. Submit curriculum vitae, three letters of reference, and transcripts to: Dr. Mark A. Colwell, Chair, Department of Wildlife, Humboldt State Uni-versity, Arcata, CA 95521. Telephone: 707-826-3723. Applications accepted until 1 March 2001 or until position is filled. Humboldt State University is an Equal Opportunity/Affirmative Action/Title IX Employer.

POSITIONS OPEN

ENVIRONMENTAL SCIENCE AND POLICY

The Goldman School of Public Policy and the Energy and Resources Group at University of California Berkeley seek a colleague for a joint appointment in the interdisciplinary area of science, technology, environment, resources, and public policy. The closing date is February 15, 2001. For details, see websites: http://gspp. berkeley.edu/ and http://socrates.berkeley. edu/erg. Telephone: 510-642-4670.

FACULTY POSITIONS THE UNIVERSITY OF VIRGINIA

The Department of Pharmacology invites applicants for one to three tenure-track positions at the ASSISTANT PROFESSOR level or higher. The Department seeks to expand research in neuro- or cardiovascular science, focusing on molecular, cellular, and integrative aspects of signaling. Successful candidates will be expected to develop or maintain externally funded research programs and to participate in graduate and medical student teaching. The University of Virginia provides a highly interactive scientific community, well supported by core facilities, research centers, and training programs (visit website: http://www.med.virginia.edu/medicine/basic-sci/ pharm/homepage.html). Send curriculum vitae, statement of research accomplishments and plans, and the names of at least three references (please include their postal and e-mail addresses and telephone numbers) to: Dr. Patrice Guyenet, Chair, Faculty Search Committee, Department of Pharmacology, P.O. Box 800735, University of Virginia Health System, Charlottesville, VA 22908-0735. Application deadline: March 31, 2001. Appointment will begin in the fall of 2001.

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

CARDIOVASCULAR/RENAL RESEARCH-ER: The Pathology Division seeks M.D., M.D./ Ph.D., or Ph.D. applicants for a tenure-track faculty position at the **ASSISTANT/ASSOCIATE PRO-FESSOR** level. The individual will be expected to develop independent and collaborative research in conjunction with an interdisciplinary cardiovascular and renal research focus group. Opportunities exist for a qualified M.D. candidate to participate in nephropathology and autopsy services. Please send curriculum vitae; statement of research interests; and names, addresses, telephone numbers, and e-mail addresses of three references to:

William F. Glass II, M.D., Ph.D., Chair Department of Pathology and Anatomy Eastern Virginia Medical School P.O. Box 1980 Norfolk, VA 23501

Eastern Virginia Medical School is an Affirmative Action/ Equal Opportunity Employer.

POSTDOCTORAL POSITION in pre-mRNA splicing. We are studying the cyclophilin USA-CyP, which functions in both steps of pre-mRNA splicing, and the Prp18 protein, which is both a focus of work and a tool for investigating the mechanism of the second step of splicing. Experience in molecular biology is essential; some experience in protein biochemistry or in vitro RNA work is desirable. This position is fully funded by an NIH grant. Salary and benefits are highly competitive. If interested, please send curriculum vitae including the names of three references to Dr. David Horowitz, Department of Biochemistry, Uniformed Services University of the Health Sciences, 4301 Jones Bridge Road, Bethesda, MD 20814. Telephone: 301-295-3589; FAX: 301-295-3512; e-mail: dhorowitz@usuhs.mil. Affirmative Action/Équal Opportunity.

POSITIONS OPEN

ECOTOXICOLOGIST/ENTOMOLOGIST CENTER FOR ECONOMIC ENTOMOLOGY Illinois Natural History Survey

The Center for Economic Entomology (CEE) at the Illinois Natural History Survey invites applications for an ASSISTANT/ASSOCIATE PROFESSION-AL SCIENTIST in ecotoxicology/entomology. We seek candidates with strong research interests and experience in field-oriented, insect-related ecotoxicol ogy (e.g., chemical impacts on nontarget insects and their habitats, susceptibility and resistance of pests and nontarget species to insecticides, pesticide resistance management, semiochemicals and natural products in food chains, or interrelationships of hosts and pests). Candidates must hold a Ph.D. in entomology or appropriate other discipline (by date of hire). The candidate must demonstrate ability to publish in peerreviewed, nationally recognized scientific journals; develop grant proposals and attract funding; conduct, supervise, and evaluate research activities; possess strong quantitative skills; and be willing to work with state and federal agencies and the University of Illinois. The candidate must be able to articulate professional opinions to granting agencies, management agencies, the scientific community, and the general public. The Illinois Natural History Survey is part of the Illinois Department of Natural Resources and is an affiliated agency of the University of Illinois located on the Urbana-Champaign campus. Further information regarding the Survey can be found at website: www.inhs.uiuc.edu. Direct technical questions to: Dr. Lee Solter, Search Chair; Telephone: 217-244-5047; e-mail: 1-solter@uiuc.edu. To apply, send cover letter, curriculum vitae, a statement of research interests, and three letters of reference to: Sue Key, Human Resources Manager, PRF Number 778, Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820. Tele-phone: 217-244-7790; FAX: 217-333-4949. To ensure full consideration, application should be re-ceived by February 15, 2001. INHS is an Equal Opportunity Employer.

BIOLOGIST: The Department of Biology at Whitman College invites applications for a one-year sabbatical replacement starting August 2001 with possibility of renewal. The successful candidate will teach the introductory courses Biological Principles (with laboratory) and one-half of another introductory course with laboratory (The Biological World) surveying the diversity of plant, algal, microbial, and fungal life forms. Two additional courses such as an elective for biology majors and an offering for nonmajors will also be expected. Ph.D. preferred. Please send curriculum vitae, three letters of recommendation, all transcripts, statements of teaching and research interests, and evidence of excellence in teaching to: Dr. Heidi E. M. Dobson, Chair of the Search Committee, Department of Biology, Whitman College, 345 Boyer Avenue, Walla Walla, WA 99362. Telephone: 509-527-5141; FAX: 509-527-5904; e-mail: dobsonhe@whitman.edu. Closing date: Friday, February 15, 2001. Further information about Whitman College at website: http:// www.whitman.edu/. Equal Opportunity Employer. Candidates must be lawfully employable in this country as a result of citizenship, visa, or resident alien status.

ASSISTANT PROFESSOR, tenure track, effective September 1, 2001. Ph.D. required. Primary teaching responsibility includes introductory biology, histology, and other course in specialty. The successful candidate must demonstrate a commitment to teaching excellence and an ongoing agenda for research and publication. Modest research facilities and support are available. Application review begins immediately and continues until appointment is made. Send letter of interest; curriculum vitae; and names, addresses, and telephone numbers of three references to: Dr. Denise Mancarella, Chair, Department of Biological Sciences, Kean University, Union, NJ 07083. Kean University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates strongly encouraged to apply.

Director, Lombardi Cancer Center Georgetown University Medical Center

Georgetown University Medical Center is recruiting an individual to serve as Director of the Lombardi Cancer Center and Chair of its Department of Oncology.

The Lombardi Cancer Center has nearly 150 faculty members who are involved in basic and translational cancer research. The Lombardi Cancer Center is an NCI-designated Comprehensive Cancer Center and is the only such center serving the greater Washington, DC area of 4 million people. The center supervises more than \$55 million in sponsored research in areas including Tumor Biology, Cancer Genetics, Cancer Prevention, and Developmental Therapeutics. In addition, there are multiple training grants and programs within the cancer center including a degree-granting program in Tumor Biology. The Department of Oncology is a university department comprised of divisions of basic, translational, clinical and population science research, which includes both teaching and research faculty.

We are seeking an outstanding scientist with substantial research experience in Oncology, a successful record of peer-reviewed funding or the equivalent, and significant administrative experience. This individual will interact with and supervise a broad range of basic research scientists, population scientists, and clinical researchers. Substantial resources and opportunities exist for building multiple programs at a university committed to academic traditions and translational research. Women and minorities are encouraged to apply. Interested candidates are invited to send a CV to John Richert, MD, Chair, Search Committee, Lombardi Cancer Center, Georgetown University Medical Center, E501 Research Building, 3970 Reservoir Road, NW, Washington, DC 20007.

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http://lombardi.georgetown.edu EOE/AA	National Cancer Institut
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Georgetown University is an Equal Opportunity, Affirmative Action Employer. Qualified candidates will receive employment consideration without regard to race, sex, sexual orientation, age, religion, national origin, marital status, veteran status or disability. We are committed to diversity in the workplace.



Mayo Clinic Postdoctoral Position Molecular Dynamics/*ab initio* Calculations

We are a group using single molecule atomic force microscopy to study the conformations of proteins and polysaccharides under a stretching force (e.g., Marszalek et al. *Nature* 402:100-103, 1999; Oberhauser et al. *Nature Struct. Biol.* 6:1025-1028, 1999; Fisher et al. *Nature Struct. Biol.* 7:719-724, 2000; Li et al. *Nature Struct. Biol.* 7:1117-1120, 2000). We seek a postdoctoral fellow to join us in doing molecular dynamics simulations and/or *ab initio* calculations of molecules under a stretching force. This NIH-funded position will enable him or her to establish a productive and close relationship between computer simulations and experimental results and also closely interact with our collaborators at other academic centers. Interested applicants should contact:

> Julio M. Fernandez, Ph.D. Department of Physiology and Biophysics Medical Sciences Building 1-159 Mayo Clinic 200 First Street SW Rochester, MN 55905 Fax: 507/284-0521 E-mail: fernandez.julio@mayo.edu See also: http://www.mayo.edu/research/

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

Innovative Postdoctoral Positions in Research and Education

The University of North Carolina at Chapel Hill (UNC-CH) and collaborating historically minority universities (HMUs) in the state of North Carolina are seeking outstanding candidates for a unique NIH-supported postdoctoral training grant. Seeding Postdoctoral Innovators in Research and Education (SPIRE) is designed for life scientists interested in academic careers that emphasize both research and teaching. These multi-year fellowships will enable the postdocs to pursue independent, original research in one of over 100 participating UNC-CH laboratories representing diverse life-science disciplines.

Fellows will also receive training in science education, instructional technology-supported learning, and workplace professional skills. The fellows will receive mentored, practical classroom experience by training at HMUs and designing and teaching undergraduate biology courses. In addition, SPIRE's collaboration with North Carolina HMUs enables fellows to contribute to achieving diversity in the life sciences. Each fellowship includes an allowance for research and teaching activities, support of an undergraduate apprentice, a laptop computer, workshops on workplace skills, and participation in an annual SPIRE symposium. As a Community of Postdoc Scholars, SPIRE fellows will administer a Distinguished Scholar seminar series for the larger university community. Applicants can be either new PhDs or postdocs with up to three years postgraduate training. Underrepresented candidates are strongly urged to apply. Stipends will begin at \$29,000/year and health insurance will be provided. Candidates should send a curriculum vitae, a letter explaining how the SPIRE program will help them to achieve their career goals, and three letters of reference to Dr. L. S. Lerea, SPIRE Coordinator, CB#3280, University of North Carolina at Chapel Hill, NC 27599-3280. Applications may be submitted electronically. Applications must be received by February 16, 2001 for fellowships beginning August 1, 2001. For further information about the SPIRE program please visit our website at http://www.unc.edu/depts/spire/spire/index.html or contact Dr. Lerea directly at (919) 962-2505 or Lerea@unc.edu.

UNC-CH is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

RESEARCH ASSOCIATE MOLECULAR BIOLOGY University of Minnesota College of Natural Resources

Position available immediately to characterize longsought lignin depolymerase gene from Trametes cingulata, produce recombinant enzyme, and optimize its activity. Ph.D. required in molecular biology, biochemistry, or appropriately related field. Practical experience essential in protein purification, gene cloning, and production of recombinant enzymes through eukaryotic expression systems. Familiarity with (opencolumn) SEC, kinetic analysis, and Fortran programming would be advantageous. Excellent writing skills with ability to work both independently and as part of a team are very important. Full-time appointment with \$27,800 to \$30,800 annual salary for one to three years contingent upon satisfactory progress and continued funding. Please send hard copy résumé describing experience with specific experimental techniques; graduate transcripts or academic record; copics of relevant publications; and names, addresses, telephone numbers, and e-mail addresses of three professional references to: Professor Simo Sarkanen, Lignin Biochemistry Group, College of Natural Resources, Kaufert Laboratory, University of Minnesota, 2004 Folwell Avenue, St. Paul, MN 55108-6128. Telephone: 612-624-6227; e-mail: ssarka@cnr.umn.edu. Applications will be reviewed beginning January 16, 2001, and continue until position is filled. The University of Minnesota is an Equal Opportunity Educator and Employer.

TENURE-TRACK/TENURED ASSISTANT/ASSOCIATE PROFESSORS Molecular Pharmacology

The University of Illinois College of Medicine at Rockford seeks to appoint one to two tenure-track/ tenured Assistant/Associate Professors in molecular pharmacology for its diversified Department of Biomedical Sciences. Although the emphasis is on research, the candidate should hold a Ph.D. and/or M.D. in pharmacology along with teaching experience. The successful applicant will be expected to have a developed and extramurally funded research program and participate in the teaching of a team-taught course in medical pharmacology. Rockford is a pleasant four-season community with affordable housing, opportunities for spousal employment, and close proximity to large urban centers and rural environs. Submit curriculum vitae, a short statement of research interests, and the names and addresses of three references to: Dr. Fu-Li Yu, Ph.D., Head, Department of Biomedical Sciences, University of Illinois College of Medicine at Rockford, 1601 Parkview Avenue, Rockford, IL 61107-1897. Applications will be reviewed starting February 15, 2001

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

DEAN SEARCH Carnegie Mellon University Mellon College of Science

The Mellon College of Science of Carnegie Mellon University invites nominations for Dean. The College has four academic departments: Biological Sciences, Chemistry, Mathematical Science Foundation Science and Technology Center for Light Microscope Imaging and Biotechnology, the Pittsburgh NMR Center for Biomedical Research, the Pittsburgh Supercomputing Center, the Center for Nonlinear Analysis, the Center for Macromolecular Engineering, the Center for Computational Finance, and is a participant in the Center for the Neural Basis of Cognition. The College has 144 tenure-track faculty, 93 special faculty, 167 graduate students, and 545 undergraduate majors.

To be assured full consideration, nominations and applications should be submitted by February 28, 2001. More details about the position, including the nomination procedure, may be found at website: http://www.cmu.edu/mcs/deanSearchAd.html.

POSITIONS OPEN

BIOINFORMATICS University of Alberta

The Department of Biological Sciences in the Faculty of Science is a broadly based department with strong research groups in molecular and evolutionary biology. We invite applications for a position in bioinformatics at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level. Applicants should have expertise in the development and use of computational tools that address questions of fundamental biological importance and have outstanding potential for excellence in teaching. The research of our 75 faculty members and 260 graduate students is supported by excellent infrastructure, including world-class computational facilities, a molecular biology service unit, and a campuswide proteomics initiative (for additional information, see website: http://www.biology. ualberta.ca/). We have recently formalized links between the Department of Biological Sciences and the Department of Computing Science by implementing an undergraduate teaching program in bioinformatics. These two departments are each looking for a Scientist (see also website: http://www.cs.ualberta. ca/jobs/) whose collaborative approach to research will drive the development of a graduate-level teaching program. Candidates should forward curriculum vitae, list of publications, reprints of their three most significant publications, a brief research plan, and statement of teaching interests to: Dr. G. J. Taylor, Chair, Department of Biological Sciences, CW 405 Biological Sciences Building, University of Alberta, Edmonton, Alberta T6G 2E9 Canada. Applicants must also arrange for three letters of reference to be sent to the Chair. Closing date: February 16, 2001. The effective date of employment will be July 1, 2001. The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIPP). The University of Alberta hires on the basis of merit. We are committed to the principle of Equity in Employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and aboriginal persons. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. If suitable Canadian citizens and permanent residents cannot be found, other individuals will be considered.

DIRECTOR OF RESEARCH

National Medical Society located in Baltimore, Maryland, is seeking a Director of Research to initiate and implement a new program to increase funding for urologic research. The successful candidate will serve as liaison with federal, nonfederal, and special interest groups in urology research funding and will work in conjunction with the Research Council to disseminate new information and initiatives. We are interested in a Ph.D. in a medically related science with personal research experience with federal funding and who is familiar with the NIH grants application process. The candidate must have highly effective personnel management and interactive skills with diverse individuals as well as a proven ability to express ideas both orally and in writing. Send résumé to: Debbie Scoblick, PHR, Director of Administration, American Urological Association, 1120 North Charles Street, Baltimore, MD 21201. FAX: 410-468-1836; email: Scoblick@auanet.org.

POSTDOCTORAL POSITION University of Colorado, Boulder

Available immediately to study molecular basis of oxygen sensing and role of heme proteins in oxygenregulated gene expression in eukaryotes. Candidates should have a Ph.D. in biochemistry or molecular biology and experience in gene expression. Experience with recombinant DNA techniques, yeast molecular genetics, or protein biochemistry required. Send curriculum vitae along with names of three references to: Dr. R. O. Poyton, Department of Molecular, Cellular, and Developmental Biology, University of Colorado, Boulder, CO 80309. Email: Poyton@spot.Colorado.EDU.

POSITIONS OPEN

CLINICAL LABORATORY SCIENCES FACULTY MEMBER University of Kansas Medical Center Department of Clinical Laboratory Sciences School of Allied Health

The Department of Clinical Laboratory Sciences, School of Allied Health invites applications for a clinical laboratory sciences faculty member (tenure track, 12-month appointment) beginning summer or fall 2001. The successful candidate will contribute to research in molecular biology or molecular aspects of a clinically relevant specialty. Teaching responsibilities will inlcude molecular techniques and a clinical specialty area. Ph.D. (A.B.D. would be considered) and experience in a clinical laboratory is required. Professional certification (NCA, ASCP, ASM, etc.) and completed postdoctoral experience is desirable. Faculty rank will be commensurate with qualifications. Review of applications begins February 15, 2001, and will continue until the position is filled. Send curriculum vitae and contact information for three references to:

Roxanne Mettenburg, MPH, MT(ASCP) Department of Clinical Laboratory Sciences, 1014 KUH University of Kansas Medical Center 3901 Rainbow Boulevard Kansas City, KS 66160-7608 Telephone: 913-588-5220; FAX: 913-588-5222 E-mail: rmettenburg@kumc.edu

Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF MICROBIOLOGY

The Department of Natural Sciences at the University of Houston-Downtown (UHD) seeks an Assistant Professor for an anticipated tenure-track position to begin September 1, 2001. This position includes teaching and research emphasis in environmental microbiology or microbial ecology. Teaching responsibilities will include courses in introductory biology and microbiology plus upper-level courses in the candidate's area of expertise. Applicants must have a Ph.D. in microbiology or closely related area, the desire and ability to direct undergraduate research projects, good communication skills, and some undergraduate teaching experience in microbiology. UHD is an urban, primarily undergraduate institution with an enrollment of 8,900, located adjacent to the central business district of Houston. The Department offers degree programs in biology, biotechnology, chemistry, microbiology, and physics. Applicants should send curriculum vitae, statement of research interests and teaching philosophy, and three letters of reference to: Chair, Microbiology Search Committee. University of Houston-Downtown, Suite N813, One Main Street, Houston, TX 77002-1001. Application deadline is February 5, 2001. UHD is an Affirmative Action/Equal Opportunity Employer.

CHIEF OF NEUROLOGY AT DARTMOUTH

The Dartmouth-Hitchcock Medical Center is seeking a Board-certified Neurologist as Chief of the Section of Neurology. This Physician will lead the clinical, educational, and research missions of a comprehensive academic program. We hope to recruit a nationally recognized leader in clinical neurology who also has a track record of competitively funded research. The selected applicant will hold senior rank at Dartmouth Medical School. We hope that the successful candidate will help to integrate the clinical and basic neurological sciences within the greater neuroscience community at Dartmouth College. Applicants should send a brief letter and curriculum vitae to: David W. Roberts, M.D., Chief, Section of Neurosurgery, Dartmouth-Hitchcock Medical Center, Lebanon, NH 03756. FAX: 603-650-4547. Dartmouth-Hitchcock Medical Center is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority groups.
CURATOR

The Natural History Museum of Los Angeles County has an immediate opening for a Full, Associate or Assistant Curator to undertake research and collection programs in Cenozoic-aged terrestrial mammals of North America. The nearly half-million specimens of the Museum's Department of Vertebrate Paleontology include a world-class collection of Late Tertiary and Quaternary mammals, with special strength in material from the western United States. Extensive Rancho La Brea collections are administered in a nearby facility (Page Museum).

We seek an individual who will implement a strong, internationally recognized, collections-based research program. Candidates with interests in micromammals are particularly encouraged to apply. The successful candidate will be expected to establish a field program, develop the collections, contribute to the Museum's public programs (education and exhibits), and become successful in obtaining grants to assist in the support of his or her research and the Museum's collection. A Ph.D. in an appropriate disciplines) is required.

Applicants should send a curriculum vitae, statement of interest, and the names and addresses of three references by April 15, 2001, to: Chairman, Curator Search Committee, Department of Vertebrate Paleontology, 900 Exposition Boulevard, Los Angeles, CA 90007, USA.



Children's Hospital Medical

Faculty Position Molecular or Cellular Immunologist

The Division of Immunobiology at the Children's Hospital Medical Center in Cincinnati, Ohio invites applications for a full-

time, tenure track faculty position as part of a recent expansion in the area of immunology. Research interests may include cytokine gene regulation, mechanisms of immune tolerance, innate immunity, mucosal immunity, transplant immunology, and complement biology — but high quality research into any aspect of human and/or murine immunology will be the prime consideration. Successful candidates will be expected to establish a highly innovative program of extramurally funded research, to participate in graduate student training, and to establish collaborative relationships with other faculty within the research and clinical community at CHMC. Applicants must have a Ph.D. or M.D. and relevant postdoctoral experience. Academic rank will be determined by candidate's credentials and experience. Excellent start-up packages and competitive salaries are available to successful candidates.

To apply, send a curriculum vitae, statement of research interests and the names and addresses of three references to:

Marsha Wills-Karp, Ph.D. Division of Immunobiology The Children's Hospital Research Foundation 3333 Burnet Avenue Cincinnati, OH 45229-3039

Children's Hospital Medical Center is an Affirmative Action/ Equal Opportunity Employer. Women and minorities are encouraged to apply.

Molecular Microbiologist Microbial Genomics and Ecology

Scientists and engineers at ORNL conduct basic and applied research and development to create scientific knowledge and technological solutions that strengthen the nation's leadership in key areas of science; increase the availability of clean, abundant energy; restore and protect the environment; and contribute to national security. **ORNL** also provides an environment that encourages collaborative research and development, and promotes access to the Laboratory's facilities by researchers from other research organizations, industry and academia. To learn more about opportunities at ORNL, see our Web site at: http://www. ornl.gov/

The Microbial Genomics and Ecology Group in the Environmental Sciences Division (ESD) at the Oak Ridge National Laboratory is seeking a highly qualified Molecular Microbiologist to contribute to research on microbial functional genomics and the quantification and functioning of microorganisms in the environment. ESD currently has several investigators and numerous DOE-funded projects using state-of-the-art technology, including microarrays for the analysis of microbial physiology and communities. We are seeking an experienced researcher to conduct laboratory and field-scale research on microbial physiology and microbial ecology using modern molecular methods in the Division's wellequipped laboratories. The applicant should have demonstrated skills and knowledge in analysis of DNA sequences, DNA sequencing, development of PCR probes and primers, isolation of DNA from environmental samples, cloning and genetic engineering of bacteria, and developing and using DNA microarraybased genomic technology for analyzing

The position requires a PhD in microbiology or molecular biology with a background in physiology, and skills and experience in allied areas. The successful applicant will have experience in laboratory and field investigations of microbial genomics, microbial diversity, bioremediation and DNA repair. Experience writing successful grants and a significant publication record are expected. The applicant will work with other staff members in developing an interdisciplinary research program targeting the needs of the DOE. The position requires a highly motivated investigator who is comfortable working in a team setting and has experience in the supervision of students and technicians meeting programmatic objectives.

microbial community structure.

Qualified candidates are invited to send a current resume and a list of three or more references to: Dr. Anthony V. Palumbo, Environmental Sciences Division, PO Box 2008, Dept. SCI, Oak Ridge National Laboratory, Oak Ridge, TN 37831-6038; e-mail: palumboav@ornl.gov

For more information, please visit our Web sites at:

http://www.ornl.gov http://www.esd.ornl.gov http://www.esd.ornl.gov/programs/microbes/

ORNL, a multipurpose research facility managed by UT-Battelle, LLC for the US Department of Energy, is an equal opportunity employer committed to building and maintaining a diverse workforce.



College of Engineering

Faculty Positions Biology, Bioengineering, and Chemistry

Franklin W. Olin

The Franklin W. Olin College of Engineering is a new institution that strives to provide the best engineering education to the world's brightest and most enterprising students in an environment enriched by continuous innovation. The College is seeking exceptional faculty dedicated to exemplary undergraduate teaching and committed to innovation and intellectual vitality through one or more creative endeavors including research, curriculum development, entrepreneurship, authoring, and technology commercialization.

Faculty are expected to become inspirational undergraduate teachers with nationally visible achievements in their fields. Faculty will be involved in the development, continual evolution and implementation of a multidisciplinary curriculum. We seek biology, bioengineering, and chemistry faculty (in all subdisciplines) who offer a creative vision of the intersection between their areas of expertise and the mission of Olin College. We encourage interested individuals to explore Olin College through our website.

The Franklin W. Olin College of Engineering was established by a major commitment from the F. W. Olin Foundation. An entirely new campus is currently under construction in Needham, MA. The first students will matriculate in Fall 2001. Access to programs at local institutions of higher education and industry along Boston's Route 128 high-technology corridor will enrich the opportunities available to Olin faculty and students.

To apply, please send an application letter describing your teaching, research and other professional goals and accomplishments with a current resume to: **Bio/Bioeng/Chem Faculty Search**, c/o Dr. David V. Kerns, Jr., Provost, Franklin W. Olin College of Engineering, 1735 Great Plain Ave., Needham, MA, 02492-1245. Email: facultysearch@olin.edu

Applications and nominations will be considered until all open positions are filled.

The Franklin W. Olin College of Engineering is an Equal Opportunity Employer.

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Chair of Biological Chemistry UCLA School of Medicine

The UCLA School of Medicine invites applications for Chair of the Department of Biological Chemistry to replace Dr. Elizabeth Neufeld, who is stepping down from this position after 17 years.

The candidates should have an exceptional record of research accomplishment in biochemistry or a related discipline. The Department has international stature in a number of areas, including structural biology, gene transcription, developmental biology & cell signaling. The Department enjoys close ties with clinical programs and other basic science units in the UCLA School of Medicine, as well as with academic units in the UCLA College of Letters and Science. The College is located immediately adjacent to the School of Medicine. The Department participates in teaching medical, dental, graduate and undergraduate students.

The position provides a unique opportunity to define biological chemistry in the 21st century. Nominations, inquiries, letters of interest and curricula vitae should be sent to Biological Chemistry Search c/o Jeanette Lim, UCLA School of Medicine, Box 951722, Los Angeles, California 90095-1722, or to any member of the search committee: Arnold Berk, Irvin Chen, Peter Edwards, Debora Farber, Harvey Herschman, Louis Ignarro, Emil Reisler and Lutz Birnbaumer (Chair). UCLA is an Equal Opportunity/Affirmative Action Employer.

THE NATIONAL ACADEMIES Advisers to the Nation on Science, Engineering, and Medicine

THE NATIONAL RESEARCH COUNCIL is accepting applications for a Postdoctoral Research Associateship Award

tenable at the NASA John C. Stennis Space Center, MS

Applicants are sought for a competitive award to be offered for research to

be conducted in the Geospace Applications and Development Directorate at

the National Aeronautics and Space Administration's Stennis Space Center.

The awardee will work independently on a project of his/her own design

that addresses remote sensing applications of coastal (Case 2) waters, development and validation of bio-optical properties (algorithms) derived from ocean color, and analysis of data for calibration-validation program. Duration of award is one year renewable in annual increments for a total of three years maximum. Award includes annual stipend of \$43,000 for recent Ph.D. recipients. Stipend is appropriately higher for more experienced investigators. Additional provisions include support for relocation and professional travel and an available health insurance program. Postmark deadlines for Application are April 15, August 15 and January 15. For further information contact: Dr. Richard L. Miller. NASA, Geospace Applications and Development Directorate MA00, BLDG, 1100, Stennis Space Center, MS 35929 TEL: (601) 688-1904 FAX: (601) 688-1777 EMAIL: richard.miller@ssc.nasa.gov Application materials can be obtained from the NRC Web site at http://national-academies.org/rap For questions or assistance, contact: The Associateship Programs, National Research Council 2101 Constitution Avenue NW, (TJ2114/M3), Washington, DC 20418 TEL: (202) 334-2760 FAX: (202) 334-2759 EMAIL: rap@nas.edu



Postdoctoral Research Opportunities Program in Tissue Remodeling and Cancer Center for Cell Biology and Cancer Research Albany Medical College

The **Center for Cell Biology and Cancer Research** seeks candidates for its postdoctoral research-training program in "Tissue Remodeling and Cancer." The Albany Medical College offers a unique programmatic environment to study the relationship of extracellular matrix, growth factors and cytokines to cell functions important in tissue remodeling processes that accompany wound healing or tumor progression. The College has recently expanded its commitment to interdisciplinary studies. Postdoctoral fellows enter into an atmosphere that ensures continued professional growth; the opportunity for career promotion is available for qualified candidates. Excellent financial compensation and benefits are provided. The following faculty are members of this program:

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Paula McKeown-Longo Paul Higgins	Extracellular matrix and cell growth behavior Growth factor/matrix interactions and gene regulation	
Susan LaFlamme	Integrin signaling in cell adhesion	
Kevin Pumiglia	VEGF signal transduction and anti-angiogenic gene therapy	
John Jeffrey	Cytokine control of interstitial collagenase expression	
Mike DiPersio	Integrin modulation of metalloprotease activity	
Gang Liu	Cytoskeletal proteins in cell polarity and tumor metastasis	
Livingston Van De Water	Regulation of tissue repair by extracellular matrix proteins	
Paula P Center for (Albany	surriculum vitae and names of three references to: J. McKeown-Longo, Ph.D. rofessor and Director Cell Biology & Cancer Research Medical College (MC-165) New Scotland Avenue Albany, NY 12208	
The Albany Medical College is an Equal Opportunity, Affirmative Action Employer.		

Endowed Chairs in Cancer Biology or Infectious Disease Research

SOUTHERN RESEARCH INSTITUTE, a not-for-profit research organization, and an affiliate of the University of Alabama at Birmingham (UAB), has annual revenues of approximately \$50 million, and employs approximately 600 professional, technical, and support personnel. Four anti-cancer drugs discovered by Institute researchers are now used in the clinic and a fifth drug protects patients against the side effects of chemo- and radiotherapy. Other new anti-cancer drugs from SRI are in development or undergoing clinical trials. Our researchers are also searching for new agents to fight a variety of bacterial, viral and fungal infectious organisms and are especially knowledgeable in the design and synthesis of agents to combat the opportunistic infections that afflict AIDS patients. Our Drug Discovery Division is particularly interested in attracting scientists who use molecular biology in their research and have a desire to join a dynamic organization that takes an interdisciplinary approach to converting basic research into new FDA-approved drugs.

To expand the Institute's ongoing efforts in these areas, we are seeking applicants who are currently directing a nationally or internationally recognized research program in either of these disciplines and have proven competence in securing extramural funding. Scientists selected for these endowed positions will be instrumental in shaping the Institute's future efforts in these targeted areas. Therefore, successful candidates will be expected to have a strong record of accomplishment as evidenced by publications in leading scientific journals or positions on federal peer review and advisory committees. Successful applicants will have also demonstrated the ability to work collaboratively and to lead interactive programs that will include other Institute scientists specializing in medicinal chemistry, biochemistry, experimental therapeutics, toxicology, pharmacology, cell biology and immunology, molecular oncology and protein crystallography.

As part of the large biomedical research community in Birmingham, we are committed to providing a stimulating and rewarding work environment. We offer generous benefits, modern equipment and facilities, and an extensive technical library. Close proximity to UAB allows for appointments as graduate teaching faculty and interactions with clinical and academic personnel who are members of the UAB basic science departments, Comprehensive Cancer Center, Cell Matrix and Adhesion Center, Center for AIDS Research, and Center for Biophysical Sciences and Engineering. Birmingham has a high standard of living afforded by a moderate climate, beautiful, wooded terrain, outstanding residential communities and schools, world-class healthcare, and a vibrant arts and entertainment scene. Its cost of living is at or below the national average, as are healthcare and housing costs.



SOUTHERN RESEARCH

Application letters should be accompanied by a curriculum vitae, names and addresses of three references, and a summary of current research activities and support. The material should be addressed to Dr. John A. Secrist III, Vice President, Drug Discovery Division, Southern Research Institute, P.O. Box 55305, Birmingham, AL 35255-5305. Must refer to Position #847.

Southern Research Institute is an Affirmative Action/Equal Opportunity Employer.



Macromolecular Crystallography Laboratory Postdoctoral Fellowships

Macromolecular Crystallography Laboratory (MCL), National Cancer Institute, National Institutes of Health, has immediate openings for Postdoctoral Fellows. Openings are available in the Protein Structure Section (A. Wlodawer) for a candidate with strong background in experimental crystallography to study retroviral integrases, and for a candidate with protein expression/purification experience and with interest in learning crystallography, to investigate several enzymes relevant to cancer and/or AIDS. The Synchrotron Radiation Section (Z. Dauter), located at Brookhaven National Laboratory, Upton, NY, has an opening for a candidate with interests in developing novel methods of structure determination. The Protein Engineering Section (D. Waugh) has an opening for a postdoctoral fellow with strong crystallography skills to investigate the structural basis of virulence mechanisms in potential agents of bioterrorism.

We have excellent facilities for biochemistry, crystallization, data collection, and computing, as well as assured access to the NIH synchrotron beamline X9b at Brookhaven. More information about MCL can be found at http://nmrweb.ncifcrf.gov/MCL.

Ideal candidates will be less than three years after their Ph.D. and have practical experience in protein crystallography, but experience in protein expression and purification only is sufficient for one of the openings. Salary range is \$31,500-\$34,000 per year, depending on the Ph.D. date. NIH is an Equal Opportunity Employer.

Please send CV and three letters of recommendation to:

Ms. Lisa Virts Administrative Resource Center National Cancer Institute at Frederick P.O. Box B, Frederick, MD 21702 e-mail virtsl@ncifcrf.gov, fax (301) 846-6053



Animal Developmental Biologist Tenure-Track Position

The Department of Biology at the University of Minnesota Duluth (UMD) invites applications for a tenure-track, nine-month Assistant Professor position in animal developmental biology starting January 2002.

Expectations include: establishing a vigorous externally funded research program; teaching an animal development course with laboratory, a core or advanced specialty course, and a team-taught introductory biology course; undergraduate and graduate student advisement; and service. The opportunity exists for collaboration with researchers at the UMD School of Medicine, EPA Mid-Continent Research Laboratory, and UMD Natural Resources Research Institute. Construction of a new state-of-the-art research/teaching laboratory facility is anticipated to begin 2002.

Essential qualifications: Ph.D. or equivalent degree in the biological sciences; post-doctoral training and research experience in molecular/cellular approaches used to address fundamental questions concerned with the development of animal systems; evidence of potential for achievement in teaching and research; strong oral and written communication skills; and at least one peer reviewed publication.

Review of complete applications will begin on March 1, 2001 and will continue until the position is filled. Send letter of application, curriculum vitae, brief statements of teaching and research experience and interests, up to three refereed publications and arrange to have three letters of reference sent to:

Dr. Conrad E. Firling, Chair Developmental Biologist Search Committee Department of Biology University of Minnesota, Duluth 10 University Drive Duluth, Minnesota 55812-2496 Email: cfirling@d.umn.edu Tel: 218-726-7270 Fax: 218-726-8142

Visit UMD at www.d.umn.edu. The University of Minnesota is an equal opportunity educator and employer.

Interested in Functional Genomics?

Functional genomics and the post-genomic sequencing era are frequently mentioned in the literature and popular press. Do you ever wonder where to train in functional genomics programs? When realizing that functional genomics offered huge research opportunities and the potential to revolutionize clinical medicine. The Medical College of Wisconsin embarked 4 years ago to develop the infrastructure for functional genomics (bioinformatics, genetic epidemiology, genomics, microarrays, sequencing and transgenic/knockouts). Currently, there are functional genomic grants funded at the RO1 (over 20) and Program levels including a Program in Genomic Applications from the NHLBI, the Rat Genome Database and two SCORs and two PPGs. In addition, a new multidisciplinary center has been established, the Human and Molecular Genetics Center (HMGC). This center, in conjunction with the Cardiovascular Research Center and the Cancer Center, work with the 28 clinical and basic science departments on campus to provide a powerful platform for functional genomics. In addition, we have developed training programs for graduate students, Post-Doctoral Fellows and Clinical Fellows in functional genomics.

If you are interested in joining the faculty or entering a training program in one of the functional genomic areas, please send us your curriculum vitae, a description of your research interests and 3 references. Become part of the fourth fastest growing research program amongst all US medical schools.



PROFESSOR AND CHAIRPERSON Pharmacology

Texas Tech University School of Medicine invites applicants for the position of Professor and Chairperson of Pharmacology. The Department of Pharmacology is located in Lubbock, Texas. The School of Medicine has many outstanding professional and academic opportunities available along with a growing research focus and commitment to expansion of its research funding and capabilities. Candidates must possess a Ph.D. and/or M.D. degree. The chair must be dedicated to promoting and developing research and teaching missions. A competitive package will be offered.

Interested individuals should submit letters of application, C.V., and the names of three references to:



Randy Schiffer, M.D. Professor and Chairman Department of Neuropsychiatry and Behavioral Sciences 3601 4th Street Lubbock, Tx 79430 806/743-2784 806/743-2820 ext.250 somrbs@ttuhsc.edu

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College of Engineering University of California, Davis

Faculty Positions in Biomedical Engineering

The College of Engineering at UC Davis invites applications from qualified candidates of all ranks for two tenured or tenuretrack faculty positions in biomedical engineering (BME). Senior candidates should have an outstanding international research reputation in biomedical engineering and a track record of interdisciplinary collaboration. Junior candidates should have outstanding research potential. A Ph.D. degree in biomedical engineering or related discipline is required. Particular areas of research interest include biomedical imaging, including chemical probes and radiopharmaceutical development, cellular and tissue engineering, and biomaterials. BME will be located in a new facility with a Genomics Center and Center for Molecular Medicine. Therefore candidates whose research impacts functional genomics, a campus-wide initiative, are encouraged to apply. The College of Engineering has formed a new Division of Biomedical Engineering that is expected to expand significantly over the next few years. The Davis campus is the third largest in the University of California system. UC Davis ranks among the nation's top 20 universities in research funding and has been rated as one of the top five "up and coming" universities in the country. We seek applicants with a strong engineering or physical sciences background to teach core undergraduate and graduate courses and help establish innovative multidisciplinary BME curricula

Davis is a pleasant, family-oriented community in a college-town setting with excellent public schools and a mild climate. Davis is ideally located for many recreational, cultural, and professional activities. It is just 15 miles from California's capital city of Sacramento and is within easy driving distance of the Sierra Nevada Mountains, San Francisco, Berkeley, Silicon Valley, wine country, and the Pacific Coastal areas.

Interested individuals should forward their resume, a summary of teaching and research plans, and the names of three to five professional references to:

Katherine W. Ferrara Professor and Chair Division of Biomedical Engineering University of California One Shields Avenue Davis, CA 95616-5294

Screening of applications will begin on January 5, 2001. To ensure full consideration, applications must be received before January 31, 2001. The positions will remain open until filled. The UC Davis College of Engineering is committed to building a diverse faculty, staff, and student body as it responds to the changing population and educational needs of California and the nation.

The University of California is an affirmative action/equal opportunity employer.

http://www.engr.ucdavis.edu



We're looking for

senior scientist [MöIndal]

The Discovery Unit at AstraZeneca R&D, Mölndal Sweden, is responsible for identifying candidate drugs in the Cardiovascular/ Gastrointestinal Research Area. Within this unit the Lead Discovery group plays a key role, working with biological targets identified as being important in disease processes and identifying and characterising molecules (lead compounds) from which optimisation to candidate drugs can occur. This group works in close collaboration with other disciplines within the Research Area including Disease Area scientists.

We are currently seeking a Senior Scientist to join the Lead Discovery group at Department of Cell Biology & Biochemistry in Mölndal. You will play a key role in the Lead Discovery group, being responsible for a number of Lead Discovery targets ensuring that biologically relevant assays are developed and used to identify and progress compounds in the early stages of Drug Discovery. You will be expected to contribute actively to defining the strategy taken for new targets and for the development of techniques within the Lead Discovery group.

You are an enthusiastic, well-motivated scientist, ideally with a number of year's post-doctoral experience of drug discovery. You will have a solid background in cell biology and/or biochemistry preferably with detailed knowledge in the field of G-protein coupled receptors. The ability to supervise the work of other

bench scientists and to take a leading role in the development of a dynamic group is essential. You should be able to communicate and collaborate effectively with groups outside Lead Discovery.

For additional information please contact Jan Fryklund, phone +46 (0)31 776 17 25 or David Keeling, phone +46 (0)31 776 15 28 at Department of Cell Biology & Biochemistry in Mölndal.

Please send your application, marked "257/00 Senior Scientist" no later than January 22, 2001 to: AstraZeneca R&D Mölndal, Human Resources, Victoria Persson, SE-431 83 Mölndal, Sweden.

Further information regarding this and other available jobs can be found on our website. You can also e-mail your application:

www.astrazeneca.se



AstraZeneca is one of the world's leading pharmaceutical companies with approximately 50,000 employees. In Sweden, about 10,000 people work for the company in pharmaceutical research, production and marketing.

MEETINGS



Vector Targeting Strategies for Therapeutic Gene Delivery

March 15 - 18 abstracts by: January 17 organized by: David T. Curiel, Wayne Marasco, Stephen Russell • Engineering Target Improvements • Yeast Surface Display • Microarray Technology • Protein-Protein Interactions • Target Definition - Peptides • Differential Expression Screening • Protein Micro-Arrays • Transcriptional Targeting • Transductional Targeting / Herpes Simplex Vectors • Imaging of Gene Transfer

Stem & Progenitor Cells: Biology & Applications

March 22 - 25 abstracts by: January 17 organized by: David Anderson, Richard Gardner, Daniel Marshak • Introduction To Stem & Progenitor Cells • Stem Cell Properties • Signal Transduction In Lineage Commitment • Neuronal Stem Cells • Hematopoiesis & Vasculogenesis • Tissue Regeneration From Stem Cells

Other CSHL Meetings Spring 2001 • Telomeres & Telomerase

Learning & Memory
 Proteolysis & Biological Control
 Genome Sequencing & Biology
 Tyrosine Phosphorylation & Cell Signaling

 Retroviruses
 66th Symposium: The Ribosome

Fall 2001

Yeast Cell Biology
Eukaryotic mRNA Processing
Mechanisms of Eukaryotic Transcription

Eukaryotic DNA Replication

Microbial Pathogenesis & Host Response

Programmed Cell Death
Integrating Genome Sequence,

Sequence Variation & Gene Expression

Neurobiology of Drosophila

Molecular Approaches to Vaccine Design

Physiological Genomics & Rat Models

For additional information, please visit us at www.cshil.org/meetings Cold Spring Harbor Laboratory Meetings & Courses Programs 1 Bungtown Road Cold Spring Harbor, N.Y. 11724 Phone: (516) 367-6346 Email: meetings@cshi org



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Pleins feux sur la France au début de l'an 2001 :

Pour la première fois, Science publiera un rapport publicitaire sur les carrières scientifiques en France. 16 Février

Pour tout renseignement complémentaire, contactez :

Bonnie Lofton Science International 82-88 Hills Road Cambridge CB2 I LQ Royaume-Uni Tél : +44 (0) 1223 326 526 Fax : +44 (0) 1223 326 532 Mel : BPLofton@science-int.co.uk

Nous adressons nos meilleurs voeux pour l'année 2001 à tous nos clients basés en France, notamment:

Aventis, BDDP Corporate, CNRS, Euregenethy, European School of Haematology, European Synchrotron, Ecole Normale Supérieure, la Fondation Mérieux, IDM, INSERM, Institut Pasteur, Media System, Novartis, Pierre Fabre, Publival, Sanofi-Synthelabo, Servier et UNESCO.

You'll find a creative and challenging environment

We're looking for

director of CNS & pain discovery alliances [Södertälje]

The Global Research Area CNS & Pain Control consists of three centres of drug discovery excellence in Montreal, Canada; Södertälje, Sweden; and Wilmington, USA, comprising a total of close to 600 staff. The Research Area pursues discovery of new therapeutic principles in the fields of psychiatry, neurology and analgesia. The Research Area works alongside Development functions and the Therapeutic Areas for CNS and for Pain Control, respectively. External alliances with academic partners, biotech companies and other pharmaceutical companies as well as in-licensing of compounds in different stages of the discovery and development process are key components to our Discovery strategy. Within the Research Area, two Directors manage these external alliances.

We are looking for a Director to this function reporting directly to the Head of the Research Area. The position will be based in Södertälje, Sweden but operates globally. The Directors work together with the global management team to formulate the externalisation strategy for the Research Area. In addition, the role encompasses the evaluations of a wide range of opportunities; alliances, technologies, negotiations and transactions. Close interactions with the Licensing department are part of the process. The successful candidate will have a scientific background (PhD), preferably in Neuroscience. He/she should be extrovert with good networking and communication skills. Experience from externalisation in the pharmaceutical business or from smaller companies is regarded an extra merit.

For further information, please contact Christer Köhler +46 8 553 245 33 or Hans Hultberg, +46 8 553 270 15. Union representatives are Desmond Lake-Bakaar +46 8 553 274 13 and Peter Nyman +46 8 553 256 08.

Please send your application, marked "Director of CNS & Pain Discovery Alliances – 765", to AstraZeneca R&D Södertälje, Human Resources, Pia Fager, 151 85 Södertälje, no later than 22 January.

Further information regarding this and other available jobs can be found on our website. You can also e-mail your application:

www.astrazeneca.se



'Haste makes waste

AstraZeneca is one of the world's leading pharmaceutical companies with approximately 50,000 employees. In Sweden, about 10,000 people work for the company in pharmaceutical research, production and marketing.

ASSISTANT/ASSOCIATE PROFESSOR (TENURE TRACK)

The Department of Medicine, Division of Hematology/Oncology and the Department of Otolaryngology at the University of Pittsburgh Cancer Institute are searching for a Scientist (Ph.D. or equivalent) with expertise in molecular studies of signal transduction of epidermal growth factor receptor and its downstream signaling pathways in head and neck cancer. Experience in head and neck cancer research and animal studies with nude mice and/or transgenic mice is preferred. The appointee will be expected to participate in an intensive team effort of research on translational molecular studies in head and neck cancer. The appointee is expected to develop as an independent Investigator and to obtain external funding. Salary will be commensurate with experience. Candidates should forward curriculum vitae, summary of research interests, and three letters of recommendation to:

Jeff A. Walker, M.B.A., Administrator Hematology/Oncology Department of Medicine, University of Pittsburgh N723 MUH, 200 Lothrop Street Pittsburgh, PA 15213 FAX: 412-692-2757 E-mail: walkerja@msx.upmc.edu

The deadline for applications is March 1, 2001. The University of Pittsburgh is an Equal Opportunity/ Affirmative Action Employer. Minorities and women are encouraged to apply.

DIRECTOR, MOUSE TRANSGENICS FA-CILITY: Eastern Virginia Medical School seeks a qualified Ph.D., M.D./Ph.D., or M.D. Scientist to direct and assist with the development of a new mouse transgenics facility. The applicant will also be expected to develop an independent, extramurally funded research program. Faculty appointment will be commensurate with experience at the ASSISTANT/AS-SOCIATE PROFESSOR level in a basic biomedical science department best suited to the applicant's scientific and professional experience. Additionally, the applicant will be encouraged to participate in collaborative research in one of five interdepartmental research focus groups: Cancer, Cardiovascular and Renal, Endocrinology, Neuroscience and Aging, and Virology. Please send curriculum vitae; statement of research interests; and names, addresses, telephone numbers, and e-mail addresses of three references to:

William F. Glass II, M.D., Ph.D., Chair Transgenics Search Committee Eastern Virginia Medical School P.O. Box 1980 Norfolk, VA 23501

Eastern Virginia Medical School is an Affirmative Action/ Equal Opportunity Employer.

DIRECTOR of the Robert B. Annis Water Resources Institute: Grand Valley State University. From its new \$5 million location at the Lake Michigan Center, the Institute provides unique opportunities for aquatic and environmental research, education, and outreach. The Director works with senior program managers and a staff of 37 full- and part-time employees. This administrative position may include a tenure-track faculty appointment. Responsibilities: management of a multidisciplinary group of Scientists, pursuit of external grant funding, and liaison with federal and state agencies and other units of the University. Qualifications: Doctorate in a relevant science, scientific managerial experience, excellent communication skills, and a proven history of developing and sustaining externally funded research programs. See website: www4.gvsu.edu/wri for more infor-mation. Send letter of application; résumé; and names, telephone numbers, and e-mail addresses for three professional references to: AWRI Search, Dr. P. Douglas Kindschi, Dean of Science and Math-ematics, 312 Padnos Hall, Allendale, MI 49401. Initial review will begin February 9, 2001, with applications accepted until the position is filled. Grand Valley State University is an Affirmative Action/Equal Opportunity Institution.

POSITIONS OPEN

MOLECULAR GENETICS University of Alberta

The Department of Biological Sciences in the Faculty of Science is a broadly based biology department with strong research groups in molecular biology and genetics. We invite applications for a position at the ASSISTANT PROFESSOR level in molecular genetics with an emphasis on gene expression. This appointment will be made under the auspices of the Canada Research Chairs Program. Applicants should have research expertise addressing questions of fundamental biological importance and have outstanding potential for excellence in teaching. The research of our 75 faculty members and 260 graduate students is supported by excellent facilities including a molecular biology service unit; a fully equipped microscopy unit; and new campuswide initiatives in genomics, proteomics, and bioinformatics. For additional information about the Department, see website: http:// www.biology.ualberta.ca/. Candidates should for-ward curriculum vitae, list of publications, reprints of their three most significant publications, a brief research plan, and statement of teaching interests to: Dr. G. J. Taylor, Chair, Department of Biological Sciences, CW 405 Biological Sciences Building, University of Alberta, Edmonton, Alberta T6G 2E9 Canada. Applicants must also arrange for three letters of reference to be sent to the Chair. Closing date: February 16, 2001. The effective date of employment will be July 1, 2001. The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIPP). The University of Alberta hires on the basis of merit. We are committed to the principle of Equality in Employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and aboriginal persons. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. If suitable Canadian citizens and permanent residents cannot be found, other individuals will be considered.

TENURE-TRACK ASSISTANT PROFESSOR POSITION Animal Biotechnology

The Department of Animal Sciences at Rutgers University invites applications for a tenure-track Assistant Professor position beginning in fall 2001. The Department seeks applicants capable of establishing a nationally recognized, externally funded research program in animal biotechnology using genomics, proteomics, gene therapy, bioinformatics, or other innovative molecular approaches and who will contribute to the mission of The New Jersey Agricultural Experiment Station and work with interdisciplinary teams. The successful applicant is expected to develop excellence in teaching. Applicants must have a Ph.D. or equivalent degree and postdoctoral experience with training in molecular biology, animal genetics, gene therapy, or bioinformatics. Applicants should submit a letter of application; statement of research and teaching interests; detailed curriculum vitae; and names, addresses, telephone numbers, and e-mail addresses of three references to: Chair of Search Committee, Department of Animal Science, 84 Lipman Drive, Rutgers, The State University of New Jersey, New Brunswick, NJ 08901-8525. E-mail: jesse@aesop.rutgers.edu. Review of completed applications will begin February 15, 2001, and will continue until the position is filled. Rutgers University is an Equal Opportunity/Affirmative Action Employer.

Tenure-track **ASSISTANT PROFESSOR** of statistics with research interests and training in bioinformatics or statistical genomics, starting August 2001. Ph.D. in statistics or related field required. For complete job description, see website: www.stat.uga. edu. Send letters of application, résumé, and four letters of reference to: Genomics Search Committee, Department of Statistics, University of Georgia, Athens, GA 30602. Review begins February 15, 2001. Affimative Action/Equal Opportunity Employer. Applications from women and minorities are encouraged.

POSITIONS OPEN

ENVIRONMENTAL ORGANIC CHEMIST

San Francisco Estuary Institute, an environmental monitoring and research institute in Richmond, California, is offering a one-year term position for an Environmental Organic Chemist, with possible extension on securing additional funding. Master's or higher degree preferred; the main requirement is experience in GC/MS identification of environmental organics. Initially the Chemist will review the literature for organic contaminants recently identified in environmental samples and look for them in archived electronic GC/MS data for San Francisco Bay samples. Salary will be commensurate with experience. This position is described in more detail at website: http://www.sfei.org. Questions should be directed to Robert Risebrough; e-mail: pelecanus@igc.org or Donald Yee; e-mail: donald@sfei.org. Applications including curriculum vitae can be sent by e-mail; three reference letters should be sent separately by mail to: Robert Risebrough, 2711 Piedmont Avenue, Berkeley, CA 94705. Applications received by January 24, 2001, will be given full consideration. Final selection will be made by February 7, 2001.

ASSISTANT PROFESSOR, BIOLOGY DEVELOPMENTAL BIOLOGIST

Develop and teach a general biology and developmental biology lecture/laboratory and other courses as required; participate in development of a Master's in biotechnology; develop an active research program involving undergraduates supported by external funding; participate in departmental and college committees and activities. Ph.D. in biology or related field and a strong commitment to undergraduate/graduate teaching, research, and service required; postdoctoral experience preferred. Salary: \$32,703 to \$57,049 commensurate with experience. For further information, see website: www.natsi.york.cuny. edu. Please reference Job Code: BIODEV. Send three copies of application (cover letter; résumé; and the names, addresses, and telephone numbers of three references), including position code, to: Ms. Kimberly Smith, York College, Room 2H05, 94-20, Guy R. Brewer Boulevard, Jamaica, NY 11451. FAX: 718-262-2717. Equal Opportunity Employer

ASSISTANT PROFESSOR/MOLECULAR BIOLOGIST

The Division of Nephrology at the Department of Medicine, University of Cincinnati is recruiting a RE-SEARCH ASSISTANT PROFESSOR with expertise in molecular biology. The applicant should have a Ph.D. or M.D. degree with strong skills in all aspects of molecular biology with possible expertise in generation of transgenic animal models. The successful candidate will be involved with established NIH programs in epithelial transport in kidney, pancreas, and other tissues. Competitive salary and fringe benefits will be offered. Applicants should submit curriculum vitae and names of three references to: Dr. M. Soleimani, Director, Division of Nephrology, University of Cincinnati Medical Center, 231 Albert Sabin Way, MSB 5502, Cincinnati, OH 45267-0585. E-mail: Manoocher.Soleimani@UC. Edu. The University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

RIPARIAN ECOLOGIST

Faculty position at the University of Idaho, Moscow, Idaho. ASSISTANT PROFESSOR in riparian ecology; academic year, tenure-track position. Telephone: 208-885-6337; FAX: 208-885-9080; e-mail: dbennett@uidaho.edu; website: http:// www.its.uidaho.edu/fishwild. Affinnative Action/ Equal Opportunity Employer and Educational Institution.

DEPUTY DIRECTOR

Construction Engineering Research Laboratory, Champaign, IL. Salary: S82,876 to \$107,738. Applications accepted until February 16, 2001. Information available from: Amy Miller; Telephone: 217-373-6772; website: www.cccer.army.mil. Forschungszentrum Jülich





This is the guiding principle for the 4200 staff members working at Germany's largest interdisciplinary research centre in the fields of "matter", "energy", "information", "life" and "environment". Our goal is top-class research in international competition with high-calibre personnel – women as well as men.

Most of our leading positions are occupied by men. This must change! For this purpose we have established our

Tenure-Track Programme for Women Scientists

according to the American model. The aim is to prepare highly qualified young women scientists for leading positions in the science sector.

Are you an outstandingly qualified, highly motivated and committed young woman scientist with a PhD in a scientific or technical subject and about three years' research experience? Would you like to qualify for a position as a professor or head of an institute without giving up the idea of having a family? Are you attracted by the idea of shaping the future within the framework of our interdisciplinary research and development programme? Are you able to work in a team, do you enjoy making contacts, can you guide employees, including young scientists?

This is your chance!

We offer you family-oriented working conditions, an excellent infrastructure with state-of-the-art equipment and an appropriate salary conforming to the Federal Collective Agreement for Public Employees (BAT). In the **Orientation Phase** (integration into the institute's research programme and development of your individual work profile) you will be offered a two-year fixed term contract. Long-term planning perspectives at an early stage are particulally important for women enabling them to combine career and family. At the beginning of the subsequent **Qualification Phase** (expanding and consolidating research and leadership experience) you will therefore already receive a permanent contract.

Deadline for applications: February 28, 2001.

You will find detailed information in the "Guidelines for Applicants" available from: Equal Opportunities Bureau, tel. ++49 24 61 61 20 05; fax ++49 24 61 61 81 71 E-mail: chancengleichheit@fz-juelich.de Internet: <u>http://www.fz-juelich.de</u> Equal opportunities are an integral part of our personnel policy. We were therefore the first research centre to receive the "TOTAL E-QUALITY" award.



TENURE-TRACK POSITION MICROBIAL GENETICS The University of Montana-Missoula

The Division of Biological Sciences (website: http://biology.umt.edu/dbs) invites applications for a tenure-track ASSISTANT PROFESSOR position in microbial genetics (start date August 2001). We seek an individual with research interests in the genetic basis of microbial interactions with other organisms or response to environmental conditions who will contribute to programmatic emphases that include microbial ecology, infectious pathogenesis, and molecular structure/function. The successful candidate will be expected to develop a vigorous, externally funded research program; mentor graduate and undergraduate students; and teach (advanced undergraduate course in microbial genetics, participation in undergraduate microbiology curriculum, and graduate course in area of specialty). Requirements are a Ph.D. in microbial genetics, microbiology, or related field; strong record of research accomplishments; postdoctoral experience; and teaching interest. Send letter of application, curriculum vitae, statement of research goals and teaching interests, and three letters of reference to: J. Gannon, Chair, Microbial Genet-icist Search Committee, Division of Biological Sciences, The University of Montana, Missoula, MT 59812. Telephone: 406-243-5122; FAX: 406-243-4184. Applications received by February 12, 2001, will receive full consideration (extended deadline) Equal Opportunity/Affirmative Action Employer.

TENURE-TRACK ASSISTANT PROFESSOR The Department of Biochemistry and Molecular Biophysics Washington University School of Medicine Professor Carl Frieden, Wittcoff Professor and Head

We invite applications from Scientists in the area of experimental single molecule studies. We offer an exceptionally interactive scientific environment, newly renovated laboratory space, and generous start-up funds for the successful candidate. Candidates should have an enthusiasm for participating in an interdisciplinary scientific community and an interest in graduate student teaching. The anticipated start date for this position is fall 2001. Applicants should submit curriculum vitae, selected reprints, a short summary of future research plans, and the names of three references by April 15, 2001, to:

Kathleen B. Hall, Ph.D. Chair, Faculty Search Committee Washington University School of Medicine Department of Biochemistry and Molecular Biophysics Box 8231, 660 South Euclid Avenue St. Louis, MO 63110

ANIMAL PHYSIOLOGIST

The Department of Biology at the University of South Dakota invites applications for an anticipated tenure-track faculty position available fall 2001 at the ASSISTANT PROFESSOR level. A Ph.D. is required and postdoctoral experience is preferred. Development of a strong research program and direction of graduate students is expected. Teaching includes comparative physiology, cell physiology, and courses in area of specialization. Excellence in teaching is expected, both in the classroom and in mentoring students outside the classroom. Research stengths within the Department include physiological responses to environmental stress; please see website: http:// www.usd.edu/biol for information about the Department. Submit curriculum vitae, cover letter, and names and addresses of three references to: David Swanson, Department of Biology, 414 East Clark Street, University of South Dakota, Vermillion, SD 57069-2390. Review of applications will begin February 15, 2001, and will continue until a suitable candidate is hired. Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN



NEUROVIROLOGY/NEUROSCIENCE Temple University Philadelphia, Pennsylvania

As part of a major expansion, the College of Science and Technology at Temple University invites applications for tenure-track faculty positions in the area of neurovirology/neuroscience. The faculty will be expected to conduct high-quality, funded research and to contribute to our educational mission at both the undergraduate and graduate levels. The level of academic appointment will be based on research and teaching experience. Applicants for ASSOCIATE PROFESSOR or PROFESSOR must have externally supported research programs and substantial publication records. Emphasis will be placed on the areas of molecular biology, genetics, and immunobiology of virus-induced CNS disease. Research focus in the area of viral pathogenesis including apoptosis, neuronal degeneration, and molecular tumorigenesis is preferred. Other relevant areas in neurobiology/neuroscience will also be considered. Applications should include curriculum vitae, publication list, and statements of research interests and teaching experience. Please include names, addresses, and telephone numbers of four references. Materials should be addressed to: Dr. Shohreh Amini, Chair, Neurovirology/ Neuroscience Search Committee, College of Science and Technology, Room 409 Barton Hall, Temple University, Philadelphia, PA 19122. Additional information can be found at websites: www. temple.edu/CNVCB or www.temple.edu/CST. Temple University is an Equal Opportunity/Affirmative Action Employer. Applications from women and members of underrepresented minorities are encouraged.

TENURE-TRACK FACULTY POSITION IN NEUROSCIENCE The Medical College of Ohio

The Department of Anatomy and Neurobiology at the Medical College of Ohio invites applications from outstanding candidates for a tenure-track faculty position. Faculty rank is open but preference will be given to those applying at the **ASSISTANT PRO-FESSOR** level. We seek a candidate using molecular, cellular, systems, or biophysical approaches to investigate fundamental questions in neuroscience that complement the interests of other faculty members. Teaching responsibilities will be in medical history and graduate neuroscience courses. Applicants with an independent research program and proven ability to obtain extramural funding will be strongly preferred.

The candidate should have a Ph.D. or M.D./Ph.D. and at least three years of postdoctoral experience. The Medical College of Ohio and the Department of Anatomy and Neurobiology offer excellent facilities with a competitive start-up package for salary, equipment, and laboratory space. Candidates should send curriculum vitae, statement of research interests, and three letters of recommendation to: Dr. Marthe Howard, Department of Anatomy and Neurobiology, Medical College of Ohio, 3000 Arlington Avenue, Toledo, OH 43614. Review of applications will begin on March 15, 2001, and will continue until the position is filled. The Medical College of Ohio is an Equal Opportunity/Affinnative Action Employer.

ASSISTANT PROFESSOR/nongame wildlife biology. Tenure track; nine month; 50% teaching and 50% research in the Department of Aquaculture, Fisheries, and Wildlife, College of Agriculture, Forestry, and Life Sciences, Clemson University. Minimum qualifications include a Ph.D. in wildlife biology or a related field. For complete description, see website: www.clemson.edu/AFW or contact: Dr. Tim Fendley, AFW, G08 Lehotsky Hall, Box 340362, Clemson, SC 29632-0362. Telephone: 864-656-5329; e-mail: tfndly@clemson.edu.

POSITIONS OPEN

TENURE-TRACK POSITION CNS BIOCHEMIST The University of Montana

The Division of Biological Sciences (website: http://biology.umt.edu/dbs) invites applications tenure-track ASSISTANT/ASSOCIATE for a tenure-track ASSISIAN1/ASSOCIATE PROFESSOR position in biochemistry (start date August 2001). Expectations include developing a vigorous, externally funded research program in the biochemistry of the nervous system with emphasis on membrane biochemistry, transport, signal transduction, and/or neuronal pathogenesis; teaching courses in biochemistry and specialty areas; and mentoring graduate and undergraduate students. The successful candidate will be an active member of and contribute to programs in the Division and in a newly funded NIH Center for Biomedical Excellence (COBRE) in Structural and Functional Neurosciences at The University of Montana (website: http://www.umt. edu/csfn). Research in the center focuses on CNS protein structure/function as related to signal transduction, transport, pathogenesis, and neurodegeneration. Competitive start-up package. Requirements are a Ph.D., strong record of research accomplishments, postdoctoral experience, and teaching interest. Send letter of application, curriculum vitae, statement of research goals and teaching interests, and three letters of reference to: M. Minnick, Chair, Biochemist Search Committee, Division of Biological Sciences, The University of Montana, Missoula, MT 59812. Telephone: 406-243-5122; FAX: 406-243-4184. Applications received by February 12, 2001, will receive full consideration (extended deadline). Equal Opportunity/Affirmative Action/ Employer

TENURE-TRACK POSITION NEUROTOXICOLOGIST The University of Montana

The Department of Pharmaceutical Sciences is seeking applications for a Neurotoxicologist with expertise in molecular mechanisms of neurodegeneration associated with environmental exposures or disease. The successful candidate will work jointly with the newly funded NIH Center for Biomedical Excellence (COBRE) in Structural and Functional Neurosciences (website: www.umt.edu/csfn) and the Center for Environmental Health Sciences (website: www.umt.edu/cehs) within the Department. Both Centers are expanding their faculty and staff, so the new faculty member will be part of a growing team of INVESTIGATORS working with state-of-the-art equipment and be provided a highly competitive start-up package. Areas of interest within the focus area of CNS protein structure/function include but are not limited to metal toxicity, oxidant stress, excitotoxicity, and neuroendocrine toxicity. Requirements are a Doctoral degree, strong record of research accomplishments, postdoctoral experience, and teaching interest. Send letter of application, curriculum vitae, statement of research goals and teaching interests, and three letters of reference to: Andrij Holian, Chair, Neurotoxicologist Search Committee, Department of Pharmaceutical Sciences, The University of Montana, Missoula, MT 59812. Telephone: 406-243-4018; FAX: 406-243-2807. Screening of applications will begin February 12, 2001, and continue until the position is filled. Equal Opportunity/Affirmative Action/Employer

FACULTY POSITIONS

Columbia University College of Physicians and Surgeons invites applications by outstanding Investigators in the field of immunology. We are seeking candidates who combine molecular and cellular approaches to study the immune system. Appointments will be made at the level of **ASSISTANT**, **ASSOCI-ATE**, and **FULL PROFESSOR**. Please send a letter, curriculum vitae, and names of three references to: **Ms. Edie Shumansky**, **Department of Microbiology**, **Columbia University**, **701 West 168th Street**, **New York**, **NY 10032**. Columbia University is an Affirmative Action/Equal Opportunity Employer.



HUMAN FRONTIER SCIENCE PROGRAM (HFSP)

Bureaux Europe, 20 place des Halles, 67080 STRASBOURG Cedex, FRANCE

Research Grant office: Tel: +33 (0)3 88 21 51 26 Fax: +33 (0)3 88 32 88 97 E-mail: grant@hfsp.org Web site: http://www.hfsp.org

CALL FOR LETTERS OF INTENT TO APPLY FOR A RESEARCH GRANT FOR 2002 AWARD YEAR (Deadline for receipt of letter of intent is 30 March 2001)

The new HFSP research grant program places special emphasis on **novel**, **innovative**, **interdisciplinary approaches to basic research** focused on the elucidation of complex mechanisms of living organisms. The general areas in which applications will be considered are the neurosciences and molecular approaches to biological functions, with the involvement of other disciplines such as chemistry, physics, mathematics, computer science and engineering. Significant new ideas, techniques and discoveries often arise at the boundaries between disciplines. To stimulate novel, daring ideas and innovative approaches, preliminary results are not required in research grant applications. Applicants are expected to develop new lines of research through the collaboration; projects must be distinct from applicants' other research funded by other sources. HFSP supports only international, collaborative teams, with an emphasis on encouraging scientists early in their careers.

A new application procedure has now been introduced for research grants: International teams of scientists interested in submitting applications for support must first submit a letter of intent online via the HFSP web site. The guidelines for potential applicants and further instructions are available on the HFSP web site (www.hfsp.org).

Research grants provide support for basic research (*up to 3 years*) carried out jointly by research teams in different countries. The principal applicant must be from one of the member countries^{*}. Preference is given to intercontinental teams. The size of the team should normally be 2 - 4 members with not more than one member from any one country.

TWO TYPES OF GRANT ARE AVAILABLE:

Young Investigators' Grants are for teams of scientists who are all within 5 years of establishing an independent laboratory and within 10 years of obtaining their PhDs. Successful teams will receive a standard amount of \$250,000 per year for the whole team.

Program Grants may be applied for by independent scientists at all stages of their careers, although the participation of younger scientists is especially encouraged. Up to \$500,000 may be applied for per year for the whole team, including approximately \$100,000 per team member per year plus some additional funds for essential equipment related to the collaboration.

*Current member countries are Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Italy, Japan, Luxembourg, the Netherlands, Portugal, the Republic of Ireland, Spain, Sweden, Switzerland, the United Kingdom and the United States.

Deadline for Receipt of Letters of Intent 30 MARCH 2001

(invitations to submit full applications will be issued at the end of June 2001)

Note: This deadline applies only to Research Grants. The Long-term Fellowship deadline will continue to be 1 September 2001 and the call for applications will appear in May 2001.

The guidelines are available on the HFSP web site (www.hfsp.org)



SENIOR RESEARCH SCIENTIST

Luna Innovations, one of the fastest-growing companies in Virginia, seeks a candidate to direct research and development of advanced biosensors and chemical films within a creative and dynamic environment. The candidate will be responsible for understanding opportunities, fostering creative thought, distilling insights into research projects, and guiding these projects to completion. Some travel and customer interface will be required.

Ideal candidate will have a Ph.D. or M.S. in biochemistry or a related discipline with experience in the fields of analytical, organic, and/or polymer chemistry. More than five years of minimum experience in the management of multidisciplinary projects preferred. Experience within technical areas related to reactive polymer films, hydrogels, dendrimers, immunoassays, solid phase chemistry immobilization techniques and analytical instrumentation, and within program areas related to project management with a demonstrated ability to secure research and development funding is strongly desired. Excellent communication skills required as is a familiarity with GLP.

Excellent compensation, including performancebased stock options and comprehensive benefits package including medical, dental, and 401(k) plans. These are detailed on our website: www.lunainnovations. com.

If interested, send résumé to: Human Resources, P.O. Box 11704, Blacksburg, VA 24062-1704. E-mail: engebritsonl@lunainnovations.com. Equal Opportunity Employer/Affirmative Action.

FACULTY POSITION Director, Center of Bioinformatics and Computational Biology

Duke University has embarked on a greater than \$200 million investment in the Institute for Genome Sciences and Policy. Among the areas to be included in this effort is the Center for Bioinformatics and Computational Biology, for which we are seeking a Director. The successful candidate will be an established **RESEARCHER** in bioinformatics and/or computational biology and possess managerial skills that will enable him/her to direct the activities of the Center.

The Center of Bioinformatics and Computational Biology at Duke University is a cooperative effort of the College of Arts and Sciences, the School of Engineering, and the School of Medicine. It is developing undergraduate, graduate, and postdoctoral programs and coordinating research activities in multiple areas.

He/she will control resources used to attract new faculty in bioinformatics and computational biology to campus, will coordinate campus activities with similar efforts at other local universities and with private industries in the Triangle, and will administer the Postdoctoral Fellowship and graduate programs.

Interested applicants should submit curriculum vitae, list of references, and cover letter summarizing research interests to: John Harer, Vice Provost for Academic Affairs, Duke University, Box 90034, Durham, NC 27708. Applications should be submitted by April 1, 2001, but the search will continue until the position is filled.

Duke University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS are available to study molecular biology of rat Leydig cells. Recent Ph.D. with experience in molecular biology and/or protein biochemistry required. Send résumé and three references to: Tu Lin, M.D., Professor and Director, Division of Endocrinology, University of South Carolina School of Medicine, Medical Library Building, Suite 316, Columbia, SC 29208. E-mail: lin@med.sc.edu. USC is an Affirmative Action/ Equal Opportunity Employer.

POSITIONS OPEN

The United States Department of Agriculture, Cooperative State Research, Education, and Extension Service (CSREES), seeks qualified candidates for four positions with CSREES Integrated Programs including the Initiative for Future Agriculture and Food Systems (IFAFS) and the Integrated Research, Education, and Extension Competitive Grants Program (406). The purpose of IFAFS and 406 is to administer grants for high-priority research, education, and extension. Successful candidates will have training and/ or experience in biological or social sciences or agricultural engineering related to one or more of the following: genomics, biotechnology, food and nutrition, natural resources and precision agriculture, farm efficiency and profitability, water quality, pest management, or food safety. Candidates must be U.S. citizens. Available positions are as follows:

(1) One DIVISION DIRECTOR (GS-15) responsible for scientific and administrative leadership of Integrated Programs. Duties include developing and implementing programs, policies, and procedures for Integrated Programs; developing program descriptions and requests for proposals; budget accountability; administering and managing federal grants; and representing the Integrated Programs before major scientific and educational bodies. The incumbent will also provide direct administrative supervision of the Integrated Programs staff.

 (2) Two PROGRAM DIRECTORS (GS-13/ 14) responsible for program leadership and policy implementation of specified programs within the Integrated area. Duties include management and oversight of the peer review process, postaward management of funded projects, analyzing and evaluating program effectiveness, and liaison with the scientific community and other groups.
 (3) One ASSISTANT PROGRAM DIRECTOR

(3) One ASSISTANT PROGRAM DIRECTOR (GS-11/12) to assist with development and implementation of programs, policies, and procedures for IFAFS. The incumbent will also serve as an information source to applicants, grantees, and other groups about IFAFS goals, policies, and practices. Closing date is February 5, 2001. Applicants are

Closing date is February 5, 2001. Applicants are strongly encouraged to address the knowledge, skills, and abilities listed in the vacancy announcements. Contact: **Dr. Sally Rockey; Telephone: 202-401-1761; e-mail: srockey@reeusda.gov** for more information. Application procedures and forms are available from: **The Human Resources Division; Telephone: 202-720-6130; website: http://www. reeusda.gov/hrd/vacancy.htm.** USDA is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS are available to study the molecular mechanism and regulation of the ARF-MDM2-p53 tumor suppression pathway and the functional interplay of this pathway with cell cycle regulation and tumor development. All projects will take biochemical and molecular approaches and may employ knockout/knock-in mice. Experience in molecular biology and biochemistry is required. Interested parties should send complete curriculum vitae and the names and addresses of three references to: Dr. Yanping Zhang, Department of Molecular and Cellular Oncology, Box 108, University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030-4095. Email: ypzhang@mdanderson.org.

The University of Texas M. D. Anderson Cancer Center is an Equal Opportunity Employer and has a smoke-free environment.

BIOCHEMIST POSITION

ASSISTANT or ASSOCIATE; tenure track for fall 2001. We seek excellent teachers who will develop active reserch to complement a multidisciplinary Ph.D. program. Send curriculum vitae, research plans, equipment needs, teaching philosophy, and three letters of evaluation to: Patrick Jones, Chair, Department of Chemistry, University of the Pacific, Stockton, CA 95211. Website: http:// chemistry.cop.uop.edu/. Commences fall 2001 pending final budgetary approval. The University of the Pacific is an Equal Opportunity/Affirmative Action Employer encouraging excellence through diversity.





DEPARTMENT OF AGRICULTURE (USDA) Agricultural Research Service (ARS)

SUPERVISORY MICROBIOLOGIST (RE-SEARCH LEADER), GS-14/15, Beltsville, Maryland. The Agricultural Research Service is seeking applications for the Research Leader of the Animal . Waste Pathogen Laboratory. The mission of the laboratory is to identify, determine sources, and reduce transmission of pathogenic enteric microorganisms that affect the health of livestock and can also be transmitted to humans by contaminated food and water. In addition to supervisory responsibilities, the Leader will have a personal research assignment related to one or more aspects of pathogen identification, epidemiology, and/or control. U.S. citizenship required. Applications must be submitted by the closing date. For copy of vacancy announcement and/or forms, Telephone: 301-504-1484 or view Announcement Number ARS-X1E-1069 on website: www.ars. usda.gov. ARS is an Equal Opportunity Provider and Employer.

DIRECTOR DIVISION OF NEUROPATHOLOGY DEPARTMENT OF PATHOLOGY The University of Alabama at Birmingham

The Division of Neuropathology at the University of Alabama at Birmingham (UAB) has an opening for a full-time, tenure-track or tenured Director to be filled at the level of ASSOCIATE or FULL PRO-FESSOR. Salary and rank will be commensurate with experience and background. The Division, one of five within the growing Department of Pathology, presently has four faculty and an RRC-approved Fellowship. Its missions include research, teaching, and service. Existing investigations are in the areas of dementia, neurooncology, nerve regeneration, and translational research in neurobiology. These programs are funded at over \$1 million annually in direct costs. The UAB campus ranks among the top 20 U.S. institutions in NIH-funded support. Its research environment is highly dynamic, interactive, and collegial, and rapid program growth is encouraged. Research is further facilitated by the presence of outstanding centers and core services such as advanced microscopy, molecular genetics, free radical biology, gene therapy, cancer research, tissue banks, and macromolecular structure. The city of Birmingham adds to the attractiveness of this position with its diverse cultural resources, mild climate, and gracious social community.

Candidates should have an outstanding research program, subspecialty training and Boards in neuropathology, and the experience to lead a talented group of Neuropathologists. To apply, submit comprehensive curriculum vitae, statement of research interests, and the names of at least three references to: Dr. John A. Smith, Chair for the Search Committee, The Department of Pathology, UAB, WP P230, 619 19th Street South, Birmingham, AL 35249. UAB is an Affirmative Action/Equal Opportunity Employer. Women and minority applicants are encouraged to apply.

SENIOR RESEARCH ASSOCIATE OR RESEARCH ASSISTANT PROFESSOR

There is an immediate position available for a Senior Research Associate or Research Assistant Professor. Molecular immunologists interested in gene sequencing and immune response with a background and experience in gene expression, techniques, and cloning should apply. Send curriculum vitae and names of three references to: Dr. Leslie P. Weiner, Department of Neurology, University of Southern California, Keck School of Medicine, 1975 Zonal Avenue, KAM 410, Los Angeles, CA 90033. FAX: 323-442-3015; e-mail: weiner@hsc.usc.edu. Equal Opportunity Employer.

International Senior Research Fellowships in Biomedical Science

Australia/India/New Zealand/South Africa

The Trust wishes to invite applications for five year senior research fellowships in biomedical science to be held in Australia, India, New Zealand or South Africa to commence in 2002.

Eligibility

The fellowships are for outstanding researchers, either medically qualified or science graduates, who wish to establish a research career in an Australian, Indian, New Zealand or South African academic institution. Candidates should have between five and ten years' research experience at postdoctoral level or equivalent and have a substantial record of publications in their chosen area of research in leading international journals. Applicants need not be nationals of the country where they wish to hold their fellowships. However, it is expected that candidates will have spent a minimum period of three years of their postdoctoral (or equivalent) research career working outside their chosen country. Applications will be accepted from those who are currently overseas or who have returned to the country where the fellowship will be held. Applicants for Australia or New Zealand who have been in the country for more than two years at the closing date for full applications are not eligible.

The salary offered will be according to age and experience and on appropriate academic scales. The essential costs of the research programmes will also be



e Trust is a Registered Charity, No. 210183, and its mission is The Wellco omote and foster research with the aim of improving human and animal health

MRC to Open New Cell Biology Unit

The Medical Research Council (MRC) is to set up a new Cell Biology Unit under the directorship of Professor Alan Hall FRS. The new Unit will be established early in 2001 within the Laboratory for Molecular Cell Biology (LMCB) at University College London (UCL). The LMCB is à multi-disciplinary collaboration between the MRC and UCL, with modern laboratory space and state of the art core facilities.

We are now seeking new group leaders for the Cell Biology Unit. Current areas of interest within the LMCB include the cytoskeleton, receptor signalling, membrane traffic and proliferation/differentiation control. We are looking to strengthen these areas, but also to expand into other areas of molecular cell biology. We are keen to increase the number of groups using model organisms to address important aspects of cell biology. Career appointments are available for candidates with an established international reputation, while career-track appointments will be offered to scientists at an earlier career stage who have demonstrated potential. Salary will be negotiable, and relocation expenses will be payable where appropriate.

For further information or to register an interest, please contact Professor Alan Hall by telephone on +44(0) 20 7679 7909 or send your CV to him at MRC Laboratory for Molecular Cell Biology, University College London, Gower Street, London WCIE 6BT or as an e-mail attachment to alan.hall@ucl.ac.uk

'Leading Science for Better Health' The Medical Research Council is an Equal Opportunities Employer and operates a strict no smoking policy.



provided, including research expenses, equipment and research personnel if appropriate. Fellows in South Africa and India will be eligible to apply for project and programme support from the Trust at the end of their fellowships.

Application Procedure

• Candidates are required to complete a preliminary application form which can be obtained from the Wellcome Trust Office or the Wellcome Trust Web site at www.wellcome.ac.uk. The form should be returned to the Wellcome Trust by 27 April 2001. Late submissions will not be accepted.

· Short-listed candidates will be notified in writing and invited to submit a full application in early July. These must be returned to the Wellcome Trust by 3 September 2001.

. Those selected for interview will be informed in writing in January 2002 and the interviews will take place in March 2002.

Enquiries and requests for preliminary application forms may be directed to: International Biomedical Programme (SRF), The Wellcome Trust, 183 Euston Road, London, NW1 2BE United Kingdom.

Tel: +44 (0)20 7611 8410/8764. Fax: +44 (0)20 7611 8373. E-mail: international@wellcome.ac.uk Web: www.wellcome.ac.uk



University of Heidelberg Faculty of Biology

International Masters Programme **Molecular and Cellular Biology**

The Faculty of Biology at the University of Heidelberg is now accepting applications for an International Masters Programme in Molecular and Cellular Biology (MCB) starting in October 2001. The programme is aimed at students who hold a first degree in Biology, Biochemistry, Biotechnology, Chemistry or Medicine (e.g. Bachelors degree or equivalent to the German "Vor-Diplom" plus 1 year). The complete programme consists of three semesters: a two semester teaching programme and one semester for work on a Masters level thesis. Students who demonstrate proficiency in research will have the opportunity to continue their studies to a doctoral degree (approximately 3 years full-time).

The teaching programme includes the following topics in:

- · Biochemistry: proteins, membranes, enzymology, cell metabolism. biophysical chemistry, biotechnology, bioinformatics, plant physiology
- Molecular Biology: gene expression, developmental biology, virology
- microbiology, genomics and proteomics Cell Biology: general molecular cell biology, neurobiology, immunology. molecular medicine

Courses will be taught in small groups and offered in a range of formats. including lectures, tutorials, seminars and practicals. A special emphasis will be placed on research-oriented and laboratory courses. While English is the language of instruction, supplementary courses will be offered in German and English language.

For further information and application forms please visit our homepage http://www.zmbh.uni-heidelberg.de/mcb or contact:

Programme Coordinator, MCB Masters Programme, ZMBH, University of Heidelberg, Im Neuenheimer Feld 282, D-69120 Heidelberg, Germany, Fax: +49 6221 546824, email: mcb@zmbh.uni-heidelberg.de

Deadline for submission of applications: 28 February 2001

CEDARS-SINAI MEDICAL CENTER

POSTDOCTORAL POSITIONS are available at the Cedars–Sinai Prostate Cancer Center to study molecular mechanisms involved in prostate cancer tumor growth. Specific areas of research will include microarray analysis of gene expression in xenograft model systems, molecular analysis of drug mechanisms, and/or the evaluation of new approaches toward antineoplastic therapy. Candidates should have a Ph.D. or M.D. degree and less than five years of postdoctoral experience. Background in molecular biology is preferred.

Send curriculum vitae with a list of publications, a brief description of research experience, and names and addresses of three references to:

Dr. David B. Agus, Research Director, Prostate Cancer Center, Cedars-Sinai Medical Center, 8631 West Third Street, Suite 1001E, Los Angeles, CA 90048.

RESEARCH ASSOCIATE

We are seeking a Research Associate for the Division of Neonatology at Mount Sinai Medical Center, Miami Beach, Florida. The research focus is directed towards the mechanisms leading to hemodynamic changes resulting from periodic acceleration and the associated production of vasoactive substances. The candidate must have a strong background in cardiopulmonary physiology; a biochemistry background is desirable. Small and large animal surgical skills are required. The candidate must have experience in hemodynamic measurements, biochemical techniques, and data analysis. Excellent writing skills are a necessity. Candidates with Ph.D. or D.V.M. will be given preference. However, individuals with a Master's degree with significant training will also be considered. Salary commensurate with experience. Contact: Jose A. Adams, M.D.; e-mail: TONY@MSMC.COM; FAX: 305-674-2306.

NEUROSCIENCE POSTDOCTORAL

Position is available for a Ph.D./M.D. to study spinal mechanisms of pain. Projects open include behavioral, intra- and extracellular neurophysiological studies both *in vitro* and *in vivo* in rodents and psychophysical studies in humans with chemotherapyinduced neuropathic pain. Candidates should send curriculum vitae and a list of at least three references to: Patrick M. Dougherty, Ph.D., The Department of Anesthesiology, The University Of Texas M.D. Anderson Cancer Center, 1515 Holcombe #42, Houston, TX 77030-4009. E-mail: pdougherty@ mdanderson.org; FAX: 713-745-2956.

A SENIOR RESEARCH ASSOCIATE/RE-SEARCH SCHOLAR position is available immediately to study molecular mechanism of tumorigenesis involving tumor suppressor genes and oncogenes. Please send curriculum vitae with names and telephone numbers of three references to: Anne T'Ang, Ph.D., Assistant Professor, University of Southern California, Children's Hospital Los Angeles, 4650 Sunset Boulevard, Mail Stop 94, Los Angeles, CA 90027. E-mail: atang@chla.usc.edu.

USC/CHLA is an Affirmative Action/Equal Opportunity Employer.

A POSTDOCTORAL POSITION is available to study the function and regulation of the MDM2 oncogene (*JBC* 274:15271; *Oncogene* 19:232). A Ph.D. degree and strong background in molecular biology and biochemistry are required. Please send curriculum vitae and support letters to: Dr. Jiandong Chen, H. Lee Moffitt Cancer Center, 12902 Magnolia Drive, Tampa, FL 33612. E-mail: jchen@moffitt. usf.edu. The University of South Florida is an Affirmative Action/Equal Access/Equal Opportunity Institution.

POSITIONS OPEN

MANAGER, MICROARRAY FACILITY

Children's Research Institute and the Department of Pediatrics at The Ohio State University seek a dynamic Scientist to establish and operate a microarray core facility. Children's Research Institute is a freestanding 132,000-square-foot facility adjacent to Columbus Children's Hospital, which has well-established programs in mouse and human genetics, gene therapy, and vaccine development as well as bacterial pathogenesis and genomics.

The successful candidate must have a Ph.D. (or M.S. with experience) in molecular biology or a related field with expertise with microarrays and related technologies.

Appointment will be made at the **RESEARCH SCIENTIST** level (nontenure track). Excellent benefits and salary based on experience. Applicants should e-mail curriculum vitae and the names of three references to: **Dr. Robert Munson, Children's Research Institute, Room W430, 700 Children's Drive, Columbus, OH 43205. E-mail: munsonr@ pediatrics.ohio-state.edu.**

DIRECTOR CARDIAC PATHOLOGY

Boston Children's Hospital seeks Director of Cardiac Pathology to join the faculty of Harvard Medical School. The Director will lead education programs in pediatric cardiac pathology, direct the cardiac pathology service and the world-renowned Cardiac Registry, and participate in clinical and scientific cardiac programs. There are unparalleled opportunities for research in congenital heart disease including potential for collaborations in development and molecular cardiology with Investigators in multiple Harvardaffiliated institutions. We seek an individual with experience in pediatric cardiac pathology and Board certification in pathology or pediatric cardiology. Interested individuals should send curriculum vitae to; Douglas C. Anthony, M.D., Pathology, Chil-dren's Hospital, 300 Longwood Avenue, Boston, MA 02115

Children's Hospital and Harvard are Equal Opportunity Employers. Women and minorities are encouraged to apply.

SCIENCE WRITER

Cultural research institution has excellent MAN-AGER-LEVEL opportunity for Science Writer to work closely with senior development and science staff, develop strategies for science campaign, and write proposals and reports related to campaign initiatives. Plant science background preferred. Excellent writing, editing, and communications skills and Bachelor's degree required. Send résumé with salary requirements to:

Recruiter, SW The New York Botanical Garden 200th Street and Kazimiroff Boulevard Bronx, NY 10458-5126 E-mail: jchoy-hughes@nybg.org FAX: 718-220-6504

Affirmative Action/Equal Opportunity Employer; Minority/Female/Disabled/Veteran.

SCIENTIFIC ADVISOR/SCIENTIST to analyze scientific data and draft biotechnology patent applications directed to a wide variety of fields including disease and drug response genes, biallelic markers, and more. The candidate will also interact with Scientists, management, outside counsel, and corporate partners. Candidate should possess a Ph.D. in life sciences (preferably molecular biology, cell biology, genetics, or immunology). Excellent scientific, verbal, and technical writing skills required. Please visit our website: www.genxy.com. Please send, FAX, or email brief description of research experience, curriculum vitae, and names of three references to: GENSET Corporation, Human Resources Department, 875 Prospect Street, Number 206, La Ĵolla, CA 92037, Attention: Job Code Scientific Advisor-BSP. FAX: 858-551-3001; e-mail: hr@genxy.com.

POSITIONS OPEN

ASSISTANT PROFESSOR POSITION

The Institute of Human Virology, University of Maryland Medical Biotechnology Institute, University of Maryland system, invites applications for a ten-ure-track faculty position at the **ASSISTANT PRO**-FESSOR level. Candidates with expertise in constructing and analyzing transgenic rats using trans-genes derived from HIV-1 or from the human CD4 gene. Desirable areas of demonstrable expertise include investigation of the effects of the HIV-1 transgene on immune functions and other cellular activities at the molecular level, making transgenic rats containing other HIV-1 constructs to determine which viral genes mediate the observed pathologies, and constructing human CD4 transgenic rats to try to obtain a small animal that can be infected with HIV-1. The successful candidate should have a record of success in constructing transgenic animals, especially rats, and should have veterinary experience. Some molecular biology experience is desirable.

Please send curriculum vitae, research interest statement, and names of three references to: Search Committee, F3-0104, Institute of Human Virology, Medical Biotechnology Research Facility, University System of Maryland, 725 West Lombard Street, Baltimore, MD 21201. Filing deadline for this position is January 31, 2001.

The University of Maryland Biotechnology Institute is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and candidates with disabilities are encouraged to apply.

MOLECULAR GENETICIST Cancer Research Center of Hawaii University of Hawaii

The Cancer Research Center of Hawaii, an NCIdesignated cancer center at the University of Hawaii, invites applications for a tenure-track position at the ASSISTANT or ASSOCIATE PROFESSOR (RE-SEARCHER) level in the area of molecular genetics of cancer. The successful applicant will be expected to establish an independent research program that will complement existing research in the cancer etiology program. The unique ethnic composition of Hawaii and the availability of large biorepositories at the Center provide for excellent opportunities for populationbased research. Minimum requirements: M.D. or Ph.D. degree and a record of active research and publications in the field of molecular genetics. Rank and salary commensurate with qualifications and experience. To apply, send letter of application, curriculum vitae, statement of research interests, and the names and addresses of three references to: Robert V. Cooney, Ph.D., Assistant Director, Cancer Re-search Center of Hawaii, 1236 Lauhala Street, Honolulu, HI 96813. Telephone: 808-586-2968; website: www.hawaii.edu/crch; e-mail: personnel@ crch.hawaii.edu. Closing date: Position will remain open until filled; however, first review of applications will begin April 15, 2001. Equal Employment Opportunity/Affinnative Action

STAFF SCIENTIST Fred Hutchinson Cancer Research Center

Areas of interest include *in vitro* hemopoiesis, signal transduction, and programmed cell death. The candidate should have experience with *in vitro* cell culture systems, standard techniques of RNA/DNA and protein analyses, the use of gene transduction vectors, and should be familiar with computer software required for the search of databases and data analyses. An interest in murine models would be welcome. The successful candidate will work with several postdoctorates and will report to the laboratory director. Send cover letter and curriculum vitae to:

Fred Hutchinson Cancer Research Center Human Resources (Number SD-11748) 1300 Valley Street Scattle, WA 98109 FAX: 206-667-4051 TTY: 206-667-6861 E-mail: jobresponses@fhcrc.org Website: www.fhcrc.org

FHCRC is an Equal Opportunity Employer committed to workforce diversity.

11th International Congress of Immunology 22-27 July 2001, Stockholm, Sweden

IUIS SSI

Deadline for submission of abstracts: February 1, 2001 www.ici2001.org

GLOBAL OPPORTUNITIES

Vice-President Research and Development New Zealand Biotechnology Startup Immunology, Virology, Peptide Chemistry

Based in Auckland, New Zealand and with products in pre-clinical and clinical trial stages our client is now expanding its focus to its broader drug platform and the commercial opportunities which arise from its progress to date.

This is a new appointment for a leading global scientist with specialist expertise in peptide chemistry, peptide screening and modification, modelling peptide binding to MHC receptors, antibodies and genomic database analysis. Naturally for such a position, skills should include strong oral presentation abilities, a broad international science network, a passion for immunobiology, as well as the focus and leadership to generate products for clinical development in a timely manner. It is important that the V-P is able to maximise the value of the collaborative relationships that have been established by the company with top groups in the US, Australia and New Zealand. Substantial travel to international conferences and collaborators are pre-requisites for this position, along with outstanding networking abilities within the scientific community.

New Zealand is becoming increasingly recognised globally for the quality of its biomedically oriented science and technology. The environment offers a superior quality of life for career and personal advancement.

Applications and expressions of interest should be addressed confidentially to *Maurice C Ellett*, Managing Director, SIGNIUM International, P.O. Box 4046, AUCKLAND, NEW ZEALAND mellett@executivesearch.co.nz, Fax: +64-9-309 0885



Registration: \$175 (Non-refundable / transferable), includes meals.

For additional program, hotel and registration information, please visit the colloquium web site (www.nas.edu/nas/colloquia). Inquiries may be addressed via e-mail (colloquia@nas.edu). Space for this meeting is limited, so please register early.

NATIONAL SCIENCE FOUNDATION

NSF Division of Biological Infrastructure (DBI), the Division of Environmental Biology (DEB), the Division of Integrative Biology and Neuroscience (IBN), and the Division of Molecular and Cellular Biosciences (MCB) seek qualified applicants to serve as **PROGRAM DIRECTORS** under the provision of NSF's rotational program in the areas listed below.

Responsibilities include research proposal evaluation, budget development, and scientific planning. Broad knowledge and specific research accomplishment are key qualifications. Positions will be filled on a one-or-two-year rotational/temporary basis beginning late summer/early fall 2001. The current salary range is \$71,954 to \$112,141; qualification requirements are a Ph.D. or equivalent experience plus six or more years of independent research experience beyond the Ph.D.

For general information about NSF programs in the biological sciences, consult the NSF website: http://www.nsf.gov. For information re DBI programs, call: Dr. Machi F. Dilworth; Telephone: 703-292-8470; re DEB programs, call: Dr. Terry Yates; Telephone: 703-292-8480; re IBN programs, call: Dr. Grace Wyngaard; Telephone: 703-292-8420; or re MCB programs, call: Dr. Maryanna Henkart; Telephone: 703-292-8440.

Applicants must submit a résumé or other application format of choice. Applications must specify the job title for which you are applying and should include the following information: country of citizenship; information about education, including major and type and year of degree(s); complete information about experiences related to this job, including job titles, duties and accomplishments, employer's name and telephone number, starting and ending dates and year, and salary to: National Science Foundation, Staffing and Classification Branch, Suite 315, 4201 Wilson Boulevard, Arlington, VA 22230, Attention: Sybil Smith.

Hearing-impaired individuals should **Telephone**: **703-292-8044**. NSF is an Equal Opportunity Employer.

The Center for Scientific Review, NIH, announces possible openings for a SCIENTIFIC REVIEW ADMINISTRATOR for a study section within the Division of Molecular and Cellular Mechanisms. The individual must have a broad knowledge of the area of bioinformatics with a strong background in any of the areas of biochemistry, biophysics, cell biology, genetics, immunology, microbiology, or neurosciences. The salary will be commensurate with experience. The applicant must have a Ph.D. or equivalent degree (or a combination of equivalent training and experience), postdoctoral independent research and administrative experience, and a record of research accomplishment. A recruitment/relocation bonus may be available. For further information, send e-mail to: laingc@csr.nih. gov.

NIH is an Equal Opportunity Employer. Selection for any position will be based on merit with no discrimination for nonmerit reasons such as race, color, sex, national origin, marital status, handicap, age, sexual orientation, or membership/nonmembership in an employee organization.

ASSOCIATE RESEARCH SCIENTIST DEPARTMENT OF NEUROLOGY Columbia University

An NIH-funded position is available in a laboratory studying presynaptic proteins that modulate transmiter release including alpha-synuclein, presynaptic auto- and heteroreceptors, and second messenger systems. The preferred candidate should hold an M.D. or Ph.D. and be an accomplished Electrophysiologist with experience in electrochemical measurements of neurotransmitter release. Please refer to laboratory's website: www.columbia.edu/~ds43/. Application, including curriculum vitae, three references, and a description of research interests and experience, should be sent to: Dr. David Sulzer, Assistant Professor, Columbia University, 650 West 168th Street, BB-305, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

COMPUTATIONAL CHEMIST

We are currently seeking an individual to join our company as a Computational Chemist. The Computational Chemist will join an exciting team developing a next-generation, Web-based tool for predicitive analysis of *in vivo* and *in vitro* pharmaceutical drug properties from calculated molecular descriptors.

The successful candidate is required to have a background in physical chemistry with an understanding of the mechanisms of molecular interactions, techniques of conformational sampling, and optimization algorithms. The successful candidate's skills should include SAR modeling, data mining techniques, 3-D pharmacophore descriptors, MSI Cerius2 SDK, and software development. Pharmaceutical industry or postdoctoral experience of one to four years is desired. In addition, the successful candidate will have scientific degree qualifications (preferably Ph.D.) in computational chemistry, excellent interpersonal skills, exceptional analytical skills, a high degree of self-motivation, and the ability to work as a proactive team member.

Cerep offers a competitive total compensation package as well as a dynamic and collegial work environment. Please send your confidential cover letter and curriculum vitae with salary requirements to the following address: **E-mail: n.legresley@cerep.com**. To learn more about Cerep, please visit our **website: http://www.cerep.com**. Cerep is an Equal Opportunity Employer.

BIOMOLECULAR NMR

The Wadsworth Center invites applications for a **STAFF SCIENTIST POSITION** to establish and maintain a vigorous, extramurally funded research program in macromolecular structure and function. The successful candidate will join an active group of Structural Biologists in the fields of NMR, X-ray crystallography, and cryoelectron microscopy. He or she will receive a competitive salary and start-up package and will be eligible for concurrent faculty appointment at appropriate rank in the Department of Biomedical Sciences, State University of New York at Albany. The Wadsworth NMR facility is equipped with Bruker Avance 500 and 600 MHz spectrometers with cryoprobe capability on order. The Wadsworth Center (website: www.wadsworth.org) is a participating institution in the New York Structural Biology Center in New York City, scheduled to open in the summer of 2001, which will house multiple high-field spectrometers. Interested Scientists should submit curriculum vitae; summary of past and future research; and three letters of reference by February 28, 2001, to: Dr. David LeMaster, NMR Search Committee, Wadsworth Center, Empire State Plaza, Box 509, Albany, NY 12201-0509. The Wadsworth Center is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

PROGRAM OFFICER

The Humane Society of the United States seeks Program Officer for animal research issues. Focus on issues involving use of animals in education and training programs, outreach efforts to students on animal research issues, and promotion of higher educational courses. Qualifications: advanced degree with experience in life sciences, strong writing and speaking skills, and ability to travel. Salary in the low \$40,000 range. Send cover letter with résumé to: The HSUS, Attention: HR/PO, 700 Professional Drive, Gaithersburg, MD 20879. FAX: 301-548-7701; e-mail: Iboan@hsus.org.

RESEARCH ASSOCIATE: M.D./Ph.D. Study mechanisms underlying temporal lobe epilepsy. Electrophysiology, histochemistry, imaging experience desirable. Salary commensurate with experience. Information at website: http: //www.usuhs.mil/ pha. Send curriculum vitae, three references to: Dr. Suzanne Bausch, Uniformed Services University of the Health Sciences Pharmacology Department, 4301 Jones Bridge Road, Bethesda, MD 20814-4799. E-mail: sbausch@usuhs.mil. Affirmative Action/Equal Opportunity Employer. Must be United States difzen or pennanent resident.

POSITIONS OPEN

DIRECTOR OF COMPUTATIONAL CHEMISTRY CEREP, INC.

We are currently seeking an individual to join our company as the Director of Computational Chemistry. The Director of Computational Chemistry will play a leadership role in computational chemistry for pharmacology-related informatics in joining an exciting team developing a next-generation, Webbased tool for predicitve analysis of in vivo and in vitro pharmaceutical drug properties from calculated mo-lecular descriptors. The company's informatics projects generate large, high-quality data sets specif ically for model development. Modeling efforts focus on relationships between molecular features, in vitro biological activity, and in vivo biological effects. The Director of Computational Chemistry's primary responsibilities will include directing research strategy (modeling and data gathering); developing predictive models from large in vitro and in vivo data sets; managing Statisticians, Biologists, Chemists, Pharmacologists, and software developers; and playing a key role in corporate collaborations.

Preference will be given to candidates with a Ph.D. in chemistry and a successful track record in computational chemistry and drug discovery. Special consideration will be given to candidates with in-depth understanding of the relationships between *in wiro* and *in vivo* models. Excellent management and communication skills as well as exceptional analytical skills, a high degree of self-motivation, and ability to work as a proactive team member are required.

Cerep offers a competitive total compensation package as well as a dynamic and collegial work environment. Please send your confidential cover letter and curriculum vitae with salary requirements to the following address: E-mail: n.legresley@cerep.com. To learn more about Cerep, please visit our website: http://www.cerep.com.

Cerep is an Equal Opportunity Employer.

NIH-funded POSTDOCTORAL POSITIONS are available in the Department of Pharmaceutical Sciences to study signal transduction pathways for neurohumoral peptides that modulate cardiac electrical and contractile function. The project involves patch clamp, RT-PCR, and Western and Northern blot techniques. Candidates should have a recent Ph.D. and strong background in cardiac research. Send curriculum vitae and three letters of recommendation to: Drs. Jesse Liu (e-mail: liushi@uams.edu) or Richard Kennedy (e-mail: KennedyRichardH@ uams.edu), Department of Pharmaceutical Sciences, 4301 West Markham Street, MS 522-3, Little Rock, AR 72205.

POSTDOCTORAL POSITIONS in molecular neurobiology available immediately to create mouse models to study pathoneurophysiology of movement disorders and to study activity-dependent synaptic development using tissue-specific knockout technology. Experience in molecular biology, biochemistry, cell culture, or *in vivo/*whole cell recording is desirable. Contact: Dr. Yuqing Li, 3347 Beckman Institute, University of Illinois at Urbana-Champaign, 405 North Mathews Avenue, Urbana, IL 61801. Telephone: 217-244-1614; FAX: 217-244-5180; website: http://www.beckman.uiuc.edu/faculty/ yli.html; e-mail: y-li4@uiuc.edu.

POSTDOCTORAL/INDUSTRIAL POSITIONS in molecular biology/biochemistry in genomicsbased biosynthetic pathway engineering for production of biochemicals and pharmaceuticals. Research involves genomic data application, cloning and expression of novel enzymes, and production through fermentation. The position starts as postdoctoral research with a possibility to transfer to a biotechnology company. Please send curriculum vitae to e-mail: **pwang@chem.wayne.edu. Webpage:** //wang.chem. wayne.edu. Wayne State University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

I.N.R.A.

French National Institute for Agronomic Research is looking for two project leaders with expertise in plant genetics and genomics and experience in management.

• Project leader in grapevine genetics and breeding (Montpellier):

The candidate will establish an independent research programme on grapevine/Uncinula necator interactions. He (she) will contribute to launching an innovative and exciting national programme of grapevine genomics. He (she) should be able to lead and motivate a team of ca. 20 people in Montpellier working on genetic resources management and genetic analysis of complex traits of grapevine and stimulate collaborations with other INRA laboratories working on this species.

• Project leader in pea seed quality (Dijon):

The candidate will establish an independent research programme on pea seed formation and quality, using the appropriate plant model system(s), in collaboration with other groups located at INRA Dijon. As the Director of the Dijon Laboratory, he (she) will coordinate the on-going research programmes involved in pea seed quality (storage proteins, nutritional value, influence of environmental factors). He (she) will also contribute to the development of collaborations within INRA and with breeding companies.

Salaries for these tenured positions are from 15 880FF to 23 255FF per month dependent on experience, with an annual premium of 4 800FF. INRA is a government-funded research Institute. The positions are open to French and non-French citizens. For further particulars and application details, please contact Chantal David, david@paris.inra.fr, INRA, DRH, 147 rue de l'Universite, 75338 Paris Cedex 07, France. Tel: (33)1 42 75 94 80, Fax: (33)1 42 75 90 39 Informal enquiries can be made to Hélène Lucas, lucas@versailles.inra.fr, Tel: (33)1 30 83 31 71.



Hamburg Outstation

CALL FOR SYNCHROTRON BEAM TIME IN STRUCTURAL BIOLOGY 2001

EMBL

The EMBL Outstation in Hamburg, Germany, is located at the DORIS storage ring, DESY. There will be about 30 weeks of beam time in 2001, starting on February 12, 2001. The Outstation currently operates four beam lines for protein crystallography (PX), one for scattering and diffraction experiments on non-crystalline systems (SAXS) and one for X-ray absorption spectroscopy (XAS):

		Wavelength/	
		Energy	Detector
X31	PX	tuneable	MAR-IP (345 mm)
X11	PX	0.91 Å	MAR-CCD (165 mm)
BW7A	РХ	tuneable	MAR-CCD (165 mm)
BW7B	PX	0.83 Å	MAR-IP (345 mm)
X33	SAXS	1.5 Å	Position sensitive gas detector
EXAFS	XAS	6 to 20 KeV	13 element Ge detector

The deadline for this call for proposals is January 29th, 2001. The external Priorities Committee will assess the proposals. Beam proposal forms are available through the World Wide Web (http://www.embl-hamburg.de). The application and offer for beamtime will be on a "Research Group" basis.

Further information can be obtained by Email to **beam@embl-hamburg.de (PX), koch@embl-hamburg.de (SAXS)** and **wolfram@embl-hamburg.de (XAS)**.

The access to the EMBL Hamburg facility is supported by the IHP- Access to Research Infrastructures Programme of the European Union (contract number: HPRI-1999-CT-00017). Users from the EU member states and associated states are eligible for financial support. The support typically covers travel and accomodation expenses.



The department of physics invites applications for a **full professorship (Grade C4)** in experimental physics in the field of **Global and/or Planetary Atmosphere Research.**

The successful candidate is expected to establish and lead a research team which has its emphasis on the investigation (measurements and modelling) of the atmosphere of the Earth and/or the planets. Cooperation with the existing research group for space research as well as with the environmental research groups of the chemistry department is expected. The position involves the teaching of basic courses in experimental physics.

Besides the general requirements for appointment as a Professor within the government service of the State of Nordrhein-Westfalen the following or equivalent competencies are required:

- a PhD degree in physics
- several years of experience in research
- an "Habilitation" or equivalent scientific qualification

The closing date for application is 5 March 2001. Please send your applications including curriculum vitae, list of publications, and summary of teaching experience to the following address:

Dekan des Fachbereichs Physik Bergische Universität-Gesamthochschule Wuppertal D-42097 Wuppertal Germany UNIVERSITY OF OXFORD

Insititute of Biological Anthropology In association with St John's College

Five-Year Fixed-term University Lectureship in Population Genetics

Biological Anthropology wishes to build upon existing strengths in population and evolutionary genetics by appointing an outstanding candidate in population genetics. In addition to a broad multi-disciplinary background the successful candidate will have a solid training in population genetics (not necessarily in humans) and will develop either a laboratory based, or a theory based, programme that will use molecular data to investigate evolutionary questions about human populations and/or address questions of relevance to genetic epidemiology.

The Institute of Biological Anthropology has a well equipped suite of modern molecular biology laboratories, located in the University's Biosciences area, plus extensive computing facilities. The University salary will be on the age-related scale for University Lecturers without tutorial Fellowships of £18,731 to £36,740 per annum. A supernumerary fellowship at St John's College may be available.

The post will commence on or before 1 October 2001.

Applications (12 copies or, for overseas candidates, one only) should be sent to Professor Ryk Ward, Institute of Biological Anthropology, 58 Banbury Road, Oxford OX2 6QS, tel: 01865 274700, fax: 01865 274699, e-mail: ryk.ward@bioanth.ox.ac.uk, from whom potential applicants are encouraged to obtain the further particulars of both the University and the College posts. Applications should include a CV, a statement of teaching interests and research objectives, one set of representative reprints, and the names and contact details of three referees, whom they should ask to write direct to Professor Ward by the closing date. The closing date for applications is 9 February 2001.

The University is an Equal Opportunities Employer.

Targeted Genetics Corporation, a leading gene therapy company, seeks the following:

ANALYTICAL SCIENTIST

Our Analytical Methods Department has a position requiring expertise in analytical technologies (HPLC, FPLC, capillary electrophoresis, mass spectrometry, and other spectrometric techniques) as well as experience with lipid, protein, and/or DNA. This position requires strong background in biology and chemistry (Ph.D. or M.S.) with relevant experience in analytical technologies and instrumentation. Strong writing, communication, and managerial skills required. The person will be working as part of a larger team and will interact consistently with other groups in the company as well as contractors and academic and industrial collaborators.

STAFF SCIENTIST, RESEARCH

Our Product Discovery Group currently has an opening for a qualified and highly motivated Molecular/Cell Biologist. The successful applicant will participate in team efforts to discover innovative gene-based therapeutics using viral and nonviral gene delivery systems. Applicants must have Ph.D. degree with several years of postdoctoral experience in molecular/cellular biology or related science. Expertise in working with small animal models of disease desired.

For more information, please visit the Careers section of our website: www.targetedgenetics.com. For consideration, please forward your curriculum vitae/résumé to:

> Targeted Genetics Corporation 1100 Olive Way #100 Seattle, WA 98101 FAX: 206-521-4782 E-mail: careers@targen.com

Equal Opportunity Employer.

RESEARCH ASSOCIATE POSITION studying synaptic organization and neural plasticity of spinal interneurons. Electrophysiology, immunocytochemistry, and confocal microscopy will be employed in isolated spinal cord preparations. Ph.D. or equivalent degree is required with experience in patch clamp methodology. This is an annual-year, fixed-term appointment. Review of applications will begin March 15, 2001, and continue until position is filled. Interested applicants should submit curriculum vitae and names of three references to: Dr. Stephen P. Schneider, Department of Physiology, 508 West Fee Hall, Michigan State University, East Lansing, MI 48824. E-mail: Schnei98@msu.edu; FAX: 517-353-9764. MSU is an Affirmative Action/Equal Opportunity Institution.

RESEARCH SCIENTIST positions available in microbial pathogenesis to study anthrax pathogenesis and vaccine development. The program is focused on the identification and molecular characterization of microbial virulence determinants and their mechanisms of action using *in vitro* cell culture and animal models. Position requires Ph.D. and U.S. *citizenship*. Experience in cell and/or molecular biology, bioinformatics, and animal experimentation desirable. Interested applicants should send their curriculum vitae, statement of research interests, and names of three references to: Dr. Arthur M. Friedlander, U.S. Army Medical Research Institute of Infectious Diseases, 1425 Porter Street, Frederick, MD 21702. FAX: 301-619-2152; e-mail: arthur. friedlander@amedd.army.mil.

Highly intelligent, exceptionally competent individual with strong scientific (though not necessarily medical) background sought by prominent Manhattan family to research and coordinate family medical and health care issues on a full-time basis. Act as liaison with leading medical researchers and consultants in academia and industry, assuming top-level responsibility for all technical, financial, and administrative affairs but without direct responsibility for patient care. Ph.D. or M.D. a plus but not essential. Highly attractive compensation. Résumé and compensation history to: Box 98, 1200 New York Avenue, Room 911, Washington, DC 20005. POSITIONS OPEN



The Louisiana State University Health Sciences Center Gene Therapy Program in conjunction with the Louisiana Gene Therapy Research Consortium, is recruiting for two faculty positions at the ASSIST-ANT PROFESSOR level in the Departments of Medicine Gene Therapy Program. Areas of particular interest are in stem cells and animal modeling of gene delivery/therapy. Please send curriculum vitae to: Dr. Jay K. Kolls, Director, LSUHSC Gene Therapy Program, Room 601, CSRB, 533 Bolivar Street, New Orleans, LA 70112. E-mail: jkolls@lsuhsc. edu. LSUHSC is an Equal Employment Opportunity/Affitmative Action Employer.

BIOMEDICAL ENGINEERING FACULTY POSITION IN BIOMEMS Division of Engineering and Applied Sciences Harvard University

Applications and nominations are invited for a **TENURE-TRACK FACULTY POSITION** in biomedical engineering. The primary areas of interest are experimental micro- and nanoscale devices and phenomena and their application to medicine and biology. Candidates should have an engineering focus and an outstanding research record. Responsibilities include active participation in Harvard's undergraduate degree program in engineering as well as in research and teaching at the graduate level. A Ph.D. is required.

Harvard has a long record of accomplishment in the application of technology to health care. A significant expansion of Harvard's biomedical engineering program is now underway including new faculty positions, increased graduate admissions, and closer links between the Division of Engineering and Applied Sciences and the Harvard Medical School. New faculty will also be eligible for appointment in the Harvard-MIT Division of Health Sciences and Technology. Further information about the Division of Engineering and Applied Sciences is available at website: http://www.deas.harvard.edu.

Applicants should submit curriculum vitae; a statement of research and teaching interests; and the names, addresses (including e-mail), and telephone numbers of at least three references by March 15, 2001, to:

Biomedical Engineering Faculty Search Division of Engineering and Applied Sciences Harvard University Pierce Hall 309 Cambridge, MA 02138 E-mail: biomed@deas.harvard.edu

Harvard is an Equal Opportunity/Affirmative Action Employer. We welcome applications from qualified women and minority group members.

EMBRYOLOGIST

The Center for Molecular and Structural Biology and the Hollings Cancer Center seek a motivated individual in the area of transgenics. The individual will work closely with personnel in the knockout and transgenic facilities at Medical University of South Carolina. This person will be involved in all embryo manipulation techniques leading to the generation of knockout and/or transgenic mice. Requires skilled competence with animal husbandry, embryo isolation, and manipulation techniques. Position available for **RESEARCH SPECIALIST III** or higher dependent on degree(s) and years of experience. Please submit curriculum vitae and at least two letters of recommendation to: Karen Fulghum, Business Manager, Medical University of South Carolina, CMSB, HCC 333, 86 Jonathan Lucas Street, P.O. Box 250956, Charleston, SC 29425. E-mail: fulghumk@musc.edu.

POSITIONS OPEN

STAFF FELLOW POSITIONS Office of Therapeutics Research and Review Center for Biologics Evaluation and Research Food and Drug Administration

The Division of Therapeutic Products and the Division of Cellular and Gene Therapies are searching for Staff Fellow candidates to fill two positions. The candidates will be part of the NCI-FDA Microarray and Tissue Proteomics Initiative. In addition to the work described below, both positions require the candidates to perform regulatory activities pertaining to therapeutic proteins or cellular and gene therapy products. The initial appointments are for two years and may be extended up to seven years by mutual agreement. Candidates must be U.S. citizens or resident aliens eligible for citizenship within four years. Salary is commensurate with experience and training. Laboratories are located on the NIH campus. Candidates should send applications to: 1401 Rockville Pike, Suite 200 North, Rockville, MD 20852-1448 with attention to the appropriate Principal Investigator contact listed below

cDNA MICROARRAY PROGRAM

The laboratory is searching for a candidate to prepare custom cDNA arrays, perform hybridization, scan and interpret results, and manage the microarray research laboratory. The successful candidate will collaborate with other CBER Scientists to help generate cDNA/oligonucleotide arrays and interpret results. The candidate should have a Ph.D., M.D., or M.D.-Ph.D. and at least three years of postdoctoral experience in molecular biology with emphasis in tumor biology and microarray technology. **Contact: Raj Puri, M.D., Ph.D., HFM-530**.

PROTEOMICS PROGRAM

The laboratory is searching for a candidate to prepare protein, drug, and antibody arrays as well as perform Western blots and 2D-PAGE. The successful candidate will collaborate with other Scientists within the NCI-FDA Tissue Proteomics Initiative consortium. The candidate should have a Ph.D., M.D., or M.D.-Ph.D. and at least three years of postdoctoral experience in protein chemistry and/or proteomics with an emphasis on signal transduction research experience. **Contact: Emmanuel Petricoin, Ph.D., HFM-538**.

POSTDOCTORAL POSITION available to use molecular genetic approaches to study issues relating to how genomic stability is maintained in manumalian cells, including how genetic recombination is regulated by DNA mismatch repair. Experience in molecular biology required. Mammalian cell culture experience preferred. Send curriculum vitae with bibliography, description of research experience, and names and addresses of three references to: Dr. Alan S. Waldman, Department of Biological Sciences, Coker Life Sciences Building, University of South Carolina, Columbia, SC 29208. E-mail: awaldman@ sc.edu.

SCIENTIST, POSTDOCTORAL, RESEARCH ASSOCIATE/ASSISTANT

Pangene is a privately held, genomics-based pharmaceutical drug company commericializing DNA repair products and genomic services. We recruit exceptional candidates for cancer, transgenics, genetics, and genomics programs. Our homologous recombination-based technology produces proprietary pharmaceutical products focused on DNA repair regulating drugs for cancer and integrates genomics services for pharmaceutical, biotechnology, and partners. E-mail résumés to: hr@pangene.com and visit website: www.pangene.com.

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ANNOUNCEMENTS



Announcing an Intensive Summer Workshop at the Santa Fe Institute

Mathematical Models in Molecular and Cellular Biology Coordinated by Lee Segel, Weizmann Institute of Science

July 29 - Aug 10, 2001 Santa Fe, NM

This workshop focuses on concrete examples of how mathematical modeling can improve biological understanding, based on a required course of the same name for first-year graduate students in the biological sciences at the Weizmann Institute of Science.

For graduate students, postdoctoral, or junior faculty members in the biological sciences. Also welcome will be theorists, such as applied mathematicians or physicists, who are interested in preparing themselves to teach a course in modeling for biologists. Enrollment is limited. There is no tuition. Housing per day, including two meals, will be \$67. Support for living expenses will be considered if funds are not available from other sources.

Prerequisites: Biology participants should have been exposed to a year of calculus. It is helpful, but not essential, if the theorists who attend have some understanding of the elements of biology.

How to Apply: Send a current resume with publications list (if any), statement of current research interests, and two letters of recommendation from scientists who know your work. Include your email address and fax number. Send only complete application packages by postal mail to:

Mathematical Models in Biology Santa Fe Institute 1399 Hyde Park Road Santa Fe, New Mexico 87501 USA

Application Deadline: February 26, 2001

Women, minorities, and students from developing countries are encouraged to apply. For additional information, including text and course overview, please visit our website, http://www.santafe.edu/sfi/research/focus/compPhysics/ projects/mathmaticalModels.html

Announcement Regarding Entrustment of an Industrial Science and Technology Research and Development Project

The New Energy and Industrial Technology Development Organization (NEDO) is planning to launch a new research and development project in FY 2001 based on funds provided by the Ministry of Economy, International Trade and Industry (METI) of Japan.

The name of this new research and development project is: "Organic Materials Technology for a Solid-State Injection Laser".

NEDO is planning to invite applications from organizations interested in participating in the above project. It is planned that a public announcement calling for applications will be made on January 16, 2001. Details regarding application procedures, a project outline and the date and place of the explanatory meeting will be posted on NEDO's homepage (http://www.nedo.go.jp) and announced in Keizai Sangyo Koho on January 16, 2001.

Key Technology Development Department Fax: 81-3-3987-9394 New Energy and Industrial Technology Development Organization (NEDO) Sunshine Building 60 29F 3-1-1, Higashi-Ikebukuro Toshima-ku, Tokyo, Japan

DARWIN FELLOW

The Graduate Program in Organismic and Evolutionary Biology at University of Massachusetts Amherst announces a **POSTDOCTORAL RE-SEARCH/LECTURESHIP** in organismic and evolutionary biology. More than 80 faculty members in 10 departments are committed to the study of organismic and evolutionary biology, offering unique training and research opportunities for recent Ph.D.s. Our two-year lecture/research position allows independent research with a faculty member and experience developing and teaching a one-semester undergraduate biology course. Position subject to availability of funds. First-year salary: \$29,000. Second-year salary: \$31,000.

To apply, send curriculum vitae, three letters of reference, statements of research and teaching interests, and letter of support from your proposed University of Massachusetts Amherst faculty sponsor. A list of faculty and additional information is available at website: www.bio.umass.edu/oeb. Mail materials to: Darwin Fellow, OEB/Morrill Science Center, University of Massachusetts, Amherst, MA 01003. Telephone: 413-545-0928; E-mail: darwin@ bio.umass.edu. Application review begins February 23, 2001. Position remains open until successful candidate is selected. Start date: September 1, 2001. The University of Massachusetts Amherst is an Affirmative Action/ Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

POSTDOCTORAL POSITIONS in functional genomics are available. Particular emphasis will be given to genomewide studies of signaling networks, DNA-protein interaction, and bioinformatics. Candidates should have a recent Ph.D. degree in molecular biology or have proven experience in informatics.

Please send research experience, curriculum vitae, and three references to: Dr. C. Wilson Xu, Sloan-Kettering Institute and Graduate School of Medical Sciences of Cornell University, 1275 York Avenue, Box 362, New York, NY 10021. FAX: 212-794-4342; e-mail: w-xu@ski.mskcc.org.

POSTDOCTORAL POSITIONS are available immediately to study the genes involved in signal transduction pathways in cancer cells and/or to develop preclinical/clinical liposomal formulations of anticancer drugs. Recent Ph.D. with experience in molecular biology/biochemistry and/or pharmacology is desirable. Please send curriculum vitae and the names of three references to: **Prafulla Gokhale**, **Ph.D.**, **Department of Radiation Medicine**, **Georgetown University Medical Center**, Room **E207**, The Research Building, 3970 Reservoir Road, N.W., Washington, DC 20007. E-mail: gokhalep@georgetown.edu.

POSTDOCTORAL POSITIONS to study transcriptional regulation of genes involved in lipid biosynthesis and adipocyte differentiation. Research areas include (1) molecular function and regulation of factors (including pref–1) that control adipocyte differentiation and (2) hormonal/nutritional regulation of lipogenic gene transcription. Send curriculum vitae and names of references to: Dr. Hei Sook Sul, Department of Nutritional Sciences and Toxicology, 119 Morgan Hall, University of California, Berkeley, CA 94720-3104. FAX: 510-642-0535; e-mail: hsul@nature.berkeley.edu.

NIH-funded **POSTDOCTORATE POSITION** to study fungal pathogenesis. Recently awarded Ph.D. with strong molecular biology background and good computing skills preferred. The position provides competitive salary, benefits, and opportunities for professional growth. Send curriculum vitae to: Dr. S. Chaturvedi, Mycology Laboratory, Wadsworth Center, 120 New Scotland Avenue, Albany, NY 12201-2002. E-mail: schaturv@wadsworth.org. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITION. Research includes the molecular analysis of the actions of vitamin A and retinoic acid in cell growth control and cell differentiation. Some molecular biology experience preferred. Send curriculum vitae, names of three references, and a statement of research interests to: Dr. Lorraine J. Gudas, Chairman, Department of Pharmacology, Weill Medical College of Cornell University (formerly Cornell University Medical College), 1300 York Avenue, New York, NY 10021. FAX: 212-746-8858. An Equal Opportunity Employer/Affirmative Action; Minorities/Females/Disabled//Ceterans.

POSTDOCTORAL POSITIONS in bacterial pathogenesis. Two positions available to study the molecular pathogenesis of *Clilamydia trachomatis*. Genomic-level focus to investigate host-microbial interactions including attachment and invasion of mammalian cells and the role of host immune response in immunity and disease. Recent Ph.D. or M.D. graduates with productive research background in microbiology, cell biology, and/or immunology are encouraged to apply. Send curriculum vitae and names of references to: Dr. Richard S. Stephens, School of Public Health, 140 Warren Hall, University of California, Berkeley, CA 94720-7360.

Two **POSTDOCTORAL POSITIONS** are available immediately to join an NIH-funded program aimed to identify and functionally characterize genes that cause mental retardation. Candidates with a recent Ph.D. or with one to two years of postdoctoral experience, preferably in molecular biology and gene mapping, are encouraged to send curriculum vitae and three letters of reference to: Dr. Anand K. Srivastava, J.C. Self Research Institute of Human Genetics, Greenwood Genetic Center, 1 Gregor Mendel Circle, Greenwood, SC 29646 U.S.A. FAX: 864-388-1808; e-mail: anand@ggc.org. GGC is an Equal Opportunity Employer.

POSTDOCTORAL POSITION in allergy and inflammation laboratory to study inhibitory receptors expressed on mast cells and other immune system cells (*JBC* 274:5791). Candidates should have a strong background in immunologic and/or inflammation models in mice. Send curriculum vitae and contact information for three references to: Howard R. Katz, Ph.D., Harvard Medical School/Brigham & Women's Hospital, Divison of Rheumatology, Immunology, and Allergy, 1 Jimmy Fund Way, Room 628A, Boston, MA 02115. E-mail: hrkatz@mbcrr.harvard.edu.

POSTDOCTORAL POSITIONS are available. The successful candidates should have primary research interests in the study of cellular signaling networks. The experience in methods to study protein function and interactions between signaling pathways is required. Please send curriculum vitae and names of three references to: YouMing Lu, Ph.D., 2029/ Health Sciences Center, University of Calgary, 3330 Hospital Drive N.W., Calgary, Alberta T2N 4N1 Canada. E-mail: luy@ucalgary.ca.

POSTDOCTORAL/RESEARCH ASSOCI-ATE POSITION for a Ph.D. to conduct studies on the trafficking of vesicle transporters. Project involves the use of mutagenesis and chimeras to clucidate sorting signals. Experience in molecular biology and cell culturing desirable. Send curriculum vitae and names of three references to: Dr. Louis Hersh, Department of Biochemistry, MS607, University of Kentucky, Lexington, KY 40536-0084. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP in molecular imaging. Immediate Postdoctoral Fellowship at the Beth Israel Deaconess Medical Center/Harvard Medical School, Boston, Massachusetts. Must have previous molecular biology experience. Will train in ligand discovery techniques, ligand functionalization, and *in vivo* imaging. Submit curriculum vitae via e-mail: jfrangio@caregroup.harvard.edu.

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POSITIONS OPEN

NATIONAL RESEARCH COUNCIL POSTDOCTORAL RESEARCH AWARDS AT THE NASA LANGLEY RESEARCH CENTER

The National Research Council is accepting applications for Postdoctoral Research Associateship awards for work to be conducted at NASA's Langley Research Center in Hampton, Virginia.

One award is for research in synthetic organic polymer chemistry in materials development for applications in aeronautics and space. *Qualified applicants must be U.S. citizens* and have a Ph.D. in organic or polymer chemistry with extensive graduate coursework in organic synthesis. Applicants also must have experience in synthetic methods to make monomers and other compounds utilized in polymer synthesis. Experience with modern methods of isolation, purification, and characterization of organic compounds is essential. Opportunities exist for patents, publishing, presenting research, and interacting with members of both the academic and industrial communities. For further details on this research opportunity, contact:

> Dr. Diane Stoakley, Senior Scientist Structures and Materials Competency NASA Langley Research Center Hampton, VA 23681 E-mail: d.m.stoakley@larc.nasa.gov Telephone: 767-864-4246 FAX: 757-864-8343

The second award is for interdisciplinary postdoctoral research. Qualified applicants must be U.S. citizens and have a Ph.D. with a background in organic/ materials chemistry. Applicants must also have solid experience in organic synthesis to prepare monomers, polymers, inorganic-organic hybrid materials, and nanocomposite materials. Opportunities exist for patents, publishing, presentations, and interaction with members of both the academic and industrial communities. Applicants must submit academic transcripts and three letters of recommendation to the following point of contact:

> Dr. Robin E. Southward NASA Langley Research Center 6A West Taylor Street Hampton, VA 23681 Telephone: 757-864-4998 FAX: 757-864-8343 E-mail: r.e.southward@larc.nasa.gov

Awards are for one year with the potential for renewal for a total of three years maximum.

Annual stipend begins at \$49,500 for recent Ph.D. recipients and is higher for additional experience. Awards also include relocation, professional travel, and health insurance.

Applications should be submitted directly to the NRC with postmark deadlines of April 15 and August 15, 2001, and January 15, 2002. Application materials may be obtained from the NRC website: http://www.national-academies.org/rap.

For questions or assistance, contact:

Associateship Programs National Research Council 2101 Constitution Avenue, N.W., TJ 2114/NL Washington, DC 20418 Telephone: 202-334-2760 FAX: 202-334-2759 E-mail: rap@nas.edu

Two **POSTDOCTORAL FELLOWSHIPS**. Position One: Candidate will join an ongoing investigation on the effects of urolithiasis on renal physiology, focusing on the interactions of calcium and oxalate transport as well as identifying the response cascades during induction of urolithiasis. Position Two: Candidate will work on a new project in prostate cancer and inflammation. Experience in immunology highly desirable. In addition to a well-equipped laboratory, there is ready access to several state-of-the-art core facilities, etc. Send curriculum vitae and contact information for three references to: **S. R. Marengo**, **Ph.D., Jim and Eilleen Dicke Research Laboratory, Department of Urology, Case Western Reserve University, Cleveland, OH 44106-4931. E-mail: srm10@po.cwru.edu.**

POSTDOCTORAL POSITIONS

IN CHROMATIN STRUCTURE / EUKARYOTIC TRANSCRIPTION / SIGNAL TRANSDUCTION DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY,

COLORADO STATE UNIVERSITY, AND MOLECULAR BIOLOGY, COLORADO STATE UNIVERSITY, FT. COLLINS, CO 80523-1870 The BMB Department seeks applications for post doctoral positions in the following research areas:

Colorado

DRS. PAUL LAYBOURN and JENNIFER NYBORG, Transcriptional regulation of the human T- cell leukemia virus (HTLV-I) Tax protein in a chromatin context.

DR. KAROLIN LUGER, X-ray crystallography of macromolecular assemblies involved in transcription regulation and DNA compaction. DRS. KEVIN LUMB and LAURIE STARGELL, Structural, biochemical and

genetic studies on the mechanisms of transcription by RNA polymerase II. DR. MARVIN PAULE, Initiation mechanisms and growth regulation of ribosomal RNA gene transcription in eukaryotic cells.

DR. OLVE PEERSEN, Crystallographic and biophysical studies of telomere binding proteins and viral replication complexes.

DR. SCOTT SUMMERS, Regulation of insulin and growth factor signal transduction.

The BMB Department has considerable expertise in the areas of eukaryotic gene expression, structural biology and signal transduction. Our research programs are highly integrated, enabling extensive long-term collaborations between many of the research groups.

The laboratories are housed in a modern research building and are equipped with state-of-the-art facilities that include X-ray crystallography, NMR, CD, image analysis, and a core facility providing mass spectrometry and nucleic acid and peptide synthesis and sequencing services.

The Colorado State University campus is located on the front-range of the majestic Rocky Mountains, about 60 miles north of Denver. World class snow skiing, rock climbing, fishing, hiking, and cycling are all located a short distance from campus. Colorado enjoys over 300 days of sunshine each year.

For further information on faculty and their research interests, please see our web site at: www.bmb.colostate.edu.

Interested and highly motivated individuals with a Ph.D. in an appropriate area should send (email or regular mail) their complete CV and three letters of reference to the specific investigator listed above, by March 15, 2001 for full consideration. Limited funds are available for travel to interview. CSU is an EEO/AA Employer; E.O. Office: 101 Student Services.

DIRECTOR

MARINE/FRESHWATER BIOMEDICAL SCIENCES CENTER Oregon State University

Oregon State University (OSU) in Corvallis, OR, seeks a Director for its Marine/Freshwater Biomedical Sciences Center. This NIEHS-supported Center comprises a number of investigators representing three Colleges at OSU and two other Universities. The Center's mission is to foster creative scientific activity among a diverse faculty that share a common interest in the development of the rainbow trout and other aquatic species for the study of carcinogenesis and its modulation by dietary and environmental factors and the chemistry and pharmacology of bioactive natural products from marine sources. The appointee will direct a vigorous, externally funded research program and will organize multiinvestigator research initiatives that build upon existing strengths and pursue new opportunities. The Director serves under the Vice Provost for Research and directs an administrative and technical staff that provides research facilities and services for the Center. Professorial rank will be assigned depending upon qualifications. Salary and start-up package will be competitive and commensurate with the appointee's experience and qualifications. OSU, a Land, Sea and Space Grant University, is ranked as a Carnegie Doctoral/Research-Extensive institution

MINIMUM QUALIFICATIONS: Ph.D. in biological, biochemical, biomedical, toxicological or environmental sciences discipline; a distinguished record of scientific publications and evidence of scientific impact (citations and awards); evidence of leadership and experience in leading complex multidisciplinary programs; proven history of extramural funding through federal, foundation, and/or industry grants; and evidence of ability to communicate and interact effectively with colleagues, University administrators, students and the public.

To apply, send a complete *curriculum vitae*, statement of research interests, and the names, addresses and phone numbers of four references to: **Professor Paul** Jepson, Chair, MFBSC Search Committee, Integrated Plant Protection Center, Cordley Hall, Oregon State University, Corvallis, OR 97331. Phone: (541) 737-4733; FAX: (541) 737-3643; e-mail jepsonp@bcc.orst.edu.

CLOSING DATE: To ensure full consideration, all application materials must be received by April 1, 2001. Oregon State University is an Equal Employment/ Affirmative Action Employer.

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www.sciencecareers.org

STEM CELL BIOLOGY Research Associates & Technicians

The Gene Therapy Laboratories Norris Cancer Center University of Southern California Los Angeles

We are actively seeking personnel to contribute to a research program aimed at understanding stem cell biology and the identification of novel growth regulatory proteins. Five positions are currently available:

Research Associates with a Ph.D. or Master's degree and a minimum of 2 years experience in:

(1). Protein purification and characterization using FPLC (Requisition #H07365).

(2). Molecular biology, especially cDNA library construction, screening and data analysis (Requisition #H07366).

Research Lab Specialists/Technicians with a Master's or Bachelor's degree and a minimum of 2 years experience in:

(3). Gene cloning, protein expression and cDNA library screening, additional small animal experience is preferable (Requisition #H07367).

(4). Cell biology, *in vitro* assay development and small animal handling, particularly relating to hematology or immunology (Requisition #H07363/#H07364).

(5). Flow cytometry, specific experience with the Cytomation MoFlo Cytometer is preferred (Requisition #H06849).

Applicants should state the position(s) of interest, and send a complete CV, together with contact information for three references to **W. French Anderson, M.D.**, Director, Gene Therapy Laboratories, Norris Cancer Center, Room 6316, USC Keck School of Medicine, 1441 Eastlake Avenue, Los Angeles, CA 90033.

ATHEROSCLEROSIS RESEARCH PROGRAM Veterans Affairs Health Care System Long Beach, California University of California, Irvine

Three **POSTDOCTORAL RESEARCH POSI-TIONS** are available in the area of lipid and lipoprotein metabolism and mitogenic signal transduction related to atherosclerotic vascular disease. Experiences in some of the following areas are desirable: cellular and molecular approaches in lipoprotein metabolism including receptor biology, tyrosine kinase receptor signaling, cell cycle, and cellular transfection with DNA constructs or antisense oligos.

Please send curriculum vitae and names of three references to:

Drs. V. S. Kamanna or M. L. Kashyap VA Health Care System (151) 5901 East Seventh Street Long Beach, CA 90822 Telephone: 562-494-5820; FAX: 562-494-5675 E-mail: vaijinath.kamanna@med.va.gov

POSTDOCTORAL POSITIONS in the Center for Bioactive Materials and Tissue Engineering, University of Pennsylvania available immediately to work with **Drs. R. Composto, P. Ducheyne, P. Leboy**, or **I. M. Shapiro** on one of the following projects: (1) modeling bioactive surfaces with self-assembled monolayers, (2) cell biology and tissue engineering of the nucleus pulposus, and (3) activation of stem cell differentiation by bioactive ceramics.

A Ph.D. in bioengineering, material science, biochemistry, or molecular biology is required. Send curriculum vitae and names of three references to: Michele Taylor, Department of Biochemistry, 541 Levy Building, 4010 Locust Street, Philadelphia, PA 19104-6003. E-mail: mtaylor@biochem. dental.upenn.edu. University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH POSITION

Postdoctoral research positions are available in an NIH-funded laboratory to study basic signaling mechanisms underlying airway epithelial cell cytokine expression and smooth muscle proliferation. Ph.D. degree and strong training in biochemistry required. Experience in molecular biology (PCR, cloning, mutagenesis) is highly desirable. Send résumé and three letters of reference to: Marc B. Hershenson, M.D., University of Chicago, Department of Pediatrics, 5841 South Maryland Avenue, MC 4064, Chicago, IL 60637-1470. E-mail: mhershen@midway. uchicago.edu. The University of Chicago and its Medical Center are Affirmative Action/Equal Opportunity Employers. Applications from women and minority groups are encouraged.

POSTDOCTORAL FELLOWSHIP MOLECULAR PARASITOLOGY

Funds are available for a three-year Postdoctoral Fellowship to develop eukaryotic expression systems for the production of recombinant enzymes and protein antigens from parasitic helminths (*Immunol. Rev.* 171:163–171, 1999). Applicants should have a Ph.D. degree (or its equivalent) in either biochemistry or molecular biology and should send their curriculum vitae with names of two references to: Dr. James Ashcom, Department of Microbiology and Tropical Medicine, George Washington University Medical Center, Ross Hall, Room 723, 2300 Eye Street, N.W., Washington, DC. GWU is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION is available immediately to study calcium sparks and spikes in cardiac excitation-contraction coupling using patch clamp and confocal fluorescence imaging techniques. Experience in electrophysiology in cardiac myocytes preferred. Send curriculum vitae and three references to: James S.K. Sham, Ph.D., Division of Pulmonary and Critical Care Medicine, Johns Hopkins School of Medicine, Johns Hopkins Asthma and Allergy Center, Baltimore, MD 21224. FAX: 410-550-2612; e-mail: jsks@welchlink.welch.jhu.edu.

POSITIONS OPEN

POSTDOCTORAL POSITION

Postdoctoral position available for a recent graduate with Ph.D. or M.D. degree to join a dynamic research team engaged in the study of the coreceptor function of CD8 and antigen recognition of TCR, in particular the impact of CD8 in T cell development.

A highly motivated individual with expertise in cellular immunology is encouraged to apply. Experience in transgenic animal technology is a plus. Please send a résumé and the names of three references to:

Hsiu-Ching Chang, Ph.D. Dana-Farber Cancer Institute 44 Binney Street, Dana 610 Boston, MA 02115 FAX: 617-632-3351 E-mail: hsiu-ching_chang@ dfci.harvard.edu

Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP TEACHER-RESEARCHER

The Biology Department at Morehouse College and the Center for Behavioral Neuroscience invite applications for a Teacher-Researcher Postdoctoral Fellowship lasting from two to five years. Applicants should have a Ph.D. and an interest in teaching introductory classes in a liberal arts setting. The position involves half-time teaching and half-time research in the laboratory of a faculty member at Morehouse College or another institution associated with the Center for Behavioral Neuroscience. For more information on the college, department, and Center for Behavioral Neuroscience, please visit our websites: http://www.morehouse.edu/Biology/bio.htm and http://www.cbn-atl.org. Interested applicants should send curriculum vitae, a short statement of research interests including suggested mentors, a graduate transcript, and contact information for three references to: Dr. Melissa Harrington, Department of Biology, Morehouse College, 830 Westview Drive, Atlanta, GA 30314. Evaluation of candidates will begin March 5, 2001. Morehouse College is an Equal Opportunity Employer.

POSTDOCTORAL POSITION

An NIH-funded Postdoctoral position is available immediately to study the immunopathogenesis of JC virus in progressive multifocal leukoencephalopathy (PML), a demyelinating disease of the brain occurring in immunosuppressed individuals. Our laboratory is investigating (1) the cellular immune response against JC virus, (2) the viral determinants of JC virus neurotropism and neurovirulence, and (3) animal models of PML in mice and nonhuman primates. Experience in molecular and cellular biology is desired. Applicants should submit curriculum vitae, summary of research experience, and addresses of three references to: Igor J. Koralnik, M.D., Director, HIV/Neurology Center, Beth Israel Deaconess Medical Center, Research East-120, 330 Brookline Avenue, Boston, MA 02215. E-mail: ikoralni@caregroup. harvard.edu. Harvard University is an Affirmative Action/ Equal Opportunity Employer.

POSTDOCTORAL POSITION ION CHANNEL RESEARCH

The mechanism of ion permeation through voltage-gated ion channels is being pursued at the molecular and cellular level. Current projects are focused on interactions of polyamines and conotoxins with various Na-channel isoforms. Recent Ph.D. graduates with a background and interest in electrophysiology, biophysics, and molecular biology are welcome to apply. Please contact: Dr. Edward Moczydlowski, Department of Pharmacology, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06620-8066. E-mail: edward.moczydlowski@ vale.edu.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP IMMUNOCHEMISTRY AND MOLECULAR PARASITOLOGY

Funds are available for a three-year Postdoctoral Fellowship to develop and characterize monoclonal antibodies directed against the active site of enzymes from parasitic helminths (*Immunol. Rev.* 171:163–171, 1999). Applicants should have a Ph.D. degree (or its equivalent) in either biochemistry or immunochemistry and should send their curriculum vitae with names of two references to: Dr. Peter Hotez, Department of Microbiology and Tropical Medicine, George Washington University Medical Center, Ross Hall, Room 736, 2300 Eye Street, N.W., Washington, DC. GWU is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION MOLECULAR AGING University of Michigan

A Postdoctoral position is available for studies of T cell activation in aged mice. The project involves analysis of interactions of membrane lipids and cytoskeletal proteins with protein kinase pathways. A strong background in molecular cell biology is required. Send curriculum vitae, brief statement of research interests, and contact information for three references to: Richard Miller, University of Michigan, Box 0940, 5316 CCGCB, Ann Arbor, MI 48109. An Equal Opportunity Employer.

POSTDOCTORAL POSITION G PROTEIN SIGNAL TRANSDUCTION Yale University

Projects include biochemical and molecular genetic analysis of G protein structure-function relationships (Mol. Phannacol. 57:1081, 2000) and use of fluorescent G protein subunits and receptors to monitor signal transduction in viro (J. Biology Chem., in press, 2000). Please send curriculum vitae, a statement of research interests, and the names of three references to: Dr. Catherine Berlot, Department of Cellular and Molecular Physiology, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06520-8026. E-mail: catherine.berlot@yale.edu.

POSTDOCTORAL POSITIONS available to investigate the molecular pathogenesis of cardiovascular diseases and to develop gene-based strategies for their prevention and treatment. Experimental systems include viral vector-mediated gene transfer in blood vessels of adult animals and generation of transgenic mice with germ line targeting to the artery wall. Positions available immediately. Please send a summary of research experience, curriculum vitae, and the names of three references to: Dr. David A. Dichek, Department of Medicine, Division of Cardiology, Box 356422, University of Washington, Seattle, WA 98195-6422. E-mail: ddichek@u.washington. edu.

POSTDOCTORAL POSITION

Postdoctoral position available on NIH-funded project to study cellular and pharmacological basis of oromotor coordination in the brain stem. Microinfusion, chronic recording, and experimental neuroanatomical approaches. JCN 427:124–138, 2000; Exp. Brain Res. 130:78–92, 2000. Send curriculum vitae and names of three references to: Dr. Joseph Travers, College of Dentistry, Ohio State University, 305 West 12th Avenue, P.O. Box 182357, Columbus, OH 43218-2357. E-mail: Travers.1@ osu.edu.

POSTDOCTORAL POSITION is available to study the molecular processes regulating the degradation of ER drug-metabolizing enzymes using molecular and proteomic approaches. A strong background in protein biochemistry and function preferred. Contact: Rick Zangar, P7-56, Pacific Northwest National Laboratory, Richland, WA 99352. E-mail: richard.zangar@pnl.gov.

POSTDOCTORAL POSITION AT EMORY Intracellular Signaling

NIH-funded Postdoctoral position available to study the intracellular signaling initiated by the angiotensin II receptor (AT1), a seven-transmembrane receptor. Angiotensin II stimulates several different signaling pathways via protein tyrosane phosphorylation (*Nature* **375**:247–250, 1995; *JBC* **271**:10329–10333, 1996). This project is to understand how a seventransmembrane receptor leads to the activation of the JAK-STAT pathway in response to angiotensin II. In particular, ligand-mediated STAT nuclear translocation is an area of active study. The project will include technical analysis using protein biochemistry and molecular biology. The applicant should have a Ph.D. or M.D. with experience in molecular biology or intracellular signaling. Applicants will be interviewed at Emory. Reply by mail or FAX to:

Ken Bernstein, M.D. WMB 7107A, Department of Pathology Emory University Atlanta, GA 30322 FAX: 404-712-9625

Emory is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available to study one of two projects. One project involves the study of cell:cell and cell:substrate interactions during corneal wound healing and eye development. A second project involves the identification and characterization of corneal epithelial stem cell markers. Both positions require a strong background in cellular and molecular biology. Send curriculum vitae, research interests, and three letters of recommendation to: Dr. Mary Ann Stepp, Department of Anatomy and Cell Biology, The George Washington University Medical Center, 2300 Eye Street, N.W., Washington, DC 20037.

ANNOUNCEMENTS

INTERNSHIPS NASA PLANETARY BIOLOGY

The Marine Biological Laboratory, Woods Hole, Massachusetts, invites applications from graduate students and seniors accepted to graduate programs for internships to explore scientific questions of global scale about the planet Earth. Interns will receive awards of \$2,200 plus travel to participate in research at NASA centers and collaborating institutions for approximately eight weeks. Typical intern programs include global ecology, remote sensing, microbial ecology, biomineralization, and origin and early evolution of life. Application deadline: March 1, 2001. For information/applications, contact: Michael Dolan, Planetary Biology Internship, Department of Geosciences, Box 35820, University of Massas chusetts, Amherst, MA 01003-5820. E-mail: pbi@geo.umass.edu. Telephone: 413-545-3223.

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EUROPEAN OPPORTUNITIES

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GLOBAL OPPORTUNITIES

FACULTY POSITION The Victor Chang Cardiac Research Institute

Applications are invited from Scientists or Clinician-Scientists for a faculty position at the **ASSIST-ANT PROFESSOR/LECTURER-SENIOR LEC-TURER** level. Applicants will be expected to hold an M.D. or Ph.D. with relevant postdoctoral training and to show exceptional potential for developing an internationally recognized, well-funded research program that is highly competitive for peer-reviewed funding.

Candidates with a distinguished record in any area of cardiovascular science will be given serious consideration, although those that apply the tools and concepts of molecular, cell and/or developmental biology, enzymology, biophysics, or structural biology to understanding basic biological processes are encouraged to apply.

The appointee will be provided with financial support to enable a high-quality program to be rapidly established and will be eligible for an academic appointment at the University of New South Wales. Details of the Institute, its programs, and faculty are available at **website: www.victorchang.com.au**.

Applicants should send curriculum vitae, the names of three references, and a statement of current and anticipated research achievements and directions to: Professor Robert M. Graham, Executive Director, VCCRI, 384 Victoria Street, Darlinghurst, Sydney, NSW 2010 Australia. FAX: 612-9295-8501; e-mail: b.graham@victorchang.unsw.edu.au.

STAFF SCIENTIST POSITION POHANG ACCELERATOR LABORATORY Pohang University of Science and Technology Pohang 790-784, Korea

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POSTDOCTORAL FELLOWSHIP POSITIONS

The Victor Chang Cardiac Research Institute Applications are invited for Postdoctoral positions within the Institute's molecular cardiology unit for research into the molecular structure and activation mechanisms of and signaling by G protein-coupled receptors and into the cellular and molecular biology of cardiac and skeletal muscle hypertrophy. Applicants will be expected to hold an M.D. or Ph.D. and to have a record of high-quality training. Expertise in receptor pharmacology/biology, molecular and cellular biology, and/or protein biochemistry is highly desirable. Details of the Institute are available at website: www. victorchang.com.au.

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