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- FAK
- P130^{Cas}

Related Materials and Products:

- Now Available — Cell Adhesion Mailer with Information About the Entire BD Transduction Laboratories Cell Adhesion Product Line
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- BD RiboQuant™ — A Novel Molecular Application for Monitoring Genes Associated with Cell Adhesion

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For more information regarding BD Transduction Laboratories™ products, please call 1-800-227-4063, or fax to 1-606-259-1413. For more information regarding BD RiboQuant™, please call 1-800-848-6227.

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NEW PRODUCTS

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RNase Away, DNA Away, and Counts Away make up a full line of decontaminants for use on a variety of surfaces and labware. They are non-abrasive and diethyl pyrocarbonate-free for safe removal of ribonuclease, DNA, and radioisotope contamination from laboratory plastics and glass that cannot otherwise be autoclaved. They are all non-toxic and easily wiped or rinsed away, leaving surfaces and instruments residue-free.

Molecular BioProducts

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AUTOMATED PLASMID DNA PURIFICATION METHOD

The purification of plasmid DNA can be fully automated by using Qiagen's QIAwell 96 Ultra Kit and Beckman Coulter's Biomek 2000 Laboratory Automation Workstation. The method, which runs with no human intervention, completes the purification of 96 samples in approximately 1.5 hours. DNA recovery, purity, and suitability for cycle sequencing are comparable with manual results.

Beckman Coulter

For more information call 800-742-2345 or **circle 144** on the Reader Service Card

CYTOTOXICITY ASSAY KIT

The CytoScan Cytotoxicity Assay Kit is a convenient test for high-throughput screening of cell death and cytotoxicity of test compounds. The kit allows users to quickly identify compounds having cytotoxic effects. The test involves a 96-well colorimetric assay. It requires only the use of a standard plate reader, and results can be quantitated.

Geno Technology

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SPECTROSCOPY ACCESSORY

The Collector II is a flexible DRIFTS (diffuse reflectance infrared Fourier transform spectroscopy) accessory for infrared analysis of solid and powdered samples. The DRIFTS technique eliminates the need for time-consuming preparation of potassium

Spectra-Tech

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bromide pellets for infrared transmission measurements. Because atmospheric carbon dioxide and water vapor can obscure peaks of interest and complicate spectral subtractions, the Collector II's design seals the accessory from atmospheric effects. The device fits into the spectrometer with the cover open and maintains purge while samples are changed.

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CMT-GAPS coated slides are for researchers who want to print their own microarrays with consistent, high-quality results. The slides are the first product in a line of Corning Microarray Technology (CMT) and feature a gamma-amino-propyl-silane (GAPS) surface chemistry that enables the even attachment of DNA. The bar-coded,

Corning Science Products

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25-mm by 75-mm glass slides make use of a proprietary coating process that offers sensitivity, consistency, and reliability along with uniform spot morphology, high DNA retention, and an enhanced signal-to-noise ratio.

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The Axioskop 2 microscope features high-resolution images with all contrasting techniques, outstanding ergonomics, and fast, dependable image analysis and docu-

Carl Zeiss

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mentation. A new reflector turret and condenser allow faster and easier changeover between microscopy techniques. The universal condenser with seven individually loadable pockets provides optimum specimen illumination with all techniques and throughout the magnification range from 1.25X to 100X.

PCR CLEAN-UP KIT

The UltraClean PCR Clean-Up Kit allows the user to purify polymerase chain reaction (PCR) products directly from a reaction without running an agarose gel first. A specially designed spin filter is used to selectively bind the PCR product. Unwanted reaction components pass through the filter. The PCR product is then eluted from the spin filter. The procedure takes only 3 min.

Mo Bio Laboratories

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SIGNAL AMPLIFICATION TECHNOLOGY

The TSA Plus System features patented signal amplification technology that enhances the sensitivity of chromogenic detection for in situ hybridization (ISH) without the need for polymerase chain reaction (PCR), while retaining resolution. The system is biotin-free and is optimized for use with popular digoxigenin probe labeling systems. The system provides results more quickly than radioactive ISH, with equivalent sensitivity. Compared with PCR-based techniques in nonradioactive ISH procedures, the system offers faster results with superior resolution; it requires no special equipment; and protocols are simpler and less time consuming. TSA Plus also works in immunohistochemistry protocols.

NEN Life Science Products

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Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS of any products or materials mentioned is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Reader Service Card and placing it in a mailbox. U.S. postage is free.

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Meetings Department
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Washington, DC 20036

TELEPHONE 202-942-9261

FACSIMILE 202-942-9340

E-MAIL MeetingsInfo@asmusa.org

INTERNET www.asmusa.org/mtgsrc/Enterococci.htm

SCIENTIFIC ORGANIZERS

Michael S. Gilmore
The University of Oklahoma
Health Sciences Center

Don B. Clewell
The University of Michigan

David M. Shlaes
Wyeth-Ayerst Research

ABSTRACT DEADLINE:

DECEMBER 1, 1999

REGISTRATION DEADLINE:

JANUARY 27, 2000

SCIENTIFIC SESSION TOPICS

Molecular Biology/Genome/
Plasmids/Transposons

Molecular Mechanisms of DNA Exchange

Enterococcal Resistance-
The View from the Clinic

Glycopeptide Resistance in Enterococci

Factors Contributing to the
Virulence of Enterococci

Role of the Enterococcal
Cell Wall in Modulating

Enterococci at Ecological Crossroads

Public Policy and Private Sector
Response to the Enterococcal Problem

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A S M C O N F E R E N C E

Macromolecular Transport Across Cellular Membranes

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Savannah, Georgia



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American Society for Microbiology
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E-MAIL MeetingsInfo@asmusa.org

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Health Sciences Center

ABSTRACT DEADLINE:

FEBRUARY 28, 2000

REGISTRATION DEADLINE:

APRIL 28, 2000

CONFIRMED SPEAKERS INCLUDE:

David Andrews Chris Nicchitta

Jeff Brodsky Nikolaus Pfanner

Arnold Driessen Hidde Ploegh

Edward Fisher Tom Rapoport

Reid Gilmore Colin Robinson

Steve Gould Karin Römisch

Koreaki Ito Daniel Schnell

Rob Jensen Suresh Subramani

Art Johnson Steve Theg

Carla Koehler Phil Thomas

Ron Kopito Beth Traxler

Susan Michaelis Peter Walter

Mary Moore Susan Went

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POSITIONS OPEN



HEAD, DEPARTMENT OF AGRONOMY Purdue University

Purdue University's nationally and internationally recognized Agronomy Department is seeking a dynamic head with a creative vision for plant, soil, and environmental sciences. The department is housed in newly-remodeled offices, laboratories, and greenhouses, and has excellent field research capabilities near campus and at locations across the state. The department's annual budget is approximately \$9.5 million, with more than \$4 million from extramural sources. Additional information about the department can be obtained at website: <http://www.agry.purdue.edu>. **Qualifications:** The successful candidate must have an outstanding record of scholarly achievement and a demonstrated commitment to excellence in research, teaching, and extension. Excellent interpersonal, communication, decision-making, and administrative skills are required. The person must be skilled in building teams and in managing interdisciplinary research, extension, and education programs. Candidates must have an earned doctoral degree and be eligible for tenure at the rank of professor. Qualified persons should submit a letter of application; a statement of research, teaching, extension, and administrative philosophy; and complete curriculum vitae with addresses and telephone numbers of five references. Applications will be reviewed beginning December 1, 1999, and review will continue until the position is filled. Send applications, nominations, and inquiries to:

Professor Robert Nielsen, Co-Chair
Department of Agronomy
Head Search Committee
1140 AGAD Building
Purdue University
West Lafayette, IL 47907-1140
Telephone: 765-494-5456
FAX: 765-494-7420

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FACULTY POSITIONS IN BIOLOGY

The Department of Biology at William Paterson University invites applications for two tenure-track positions at the ASSISTANT PROFESSOR level. (1) Animal Molecular Geneticist: We seek applicants with recent experience and training in animal molecular genetics. The successful candidate is expected to teach graduate and undergraduate courses, including the required genetics course for biology and biotechnology majors, as well as advanced courses in his/her specific area of expertise. (2) Mammalian Physiologist: We seek applicants with training in mammalian physiology using rodent models. The successful candidate will share responsibility for teaching both introductory and advanced courses to biology, nursing, and physical education majors. Candidates for each position must be able to develop an innovative research program involving undergraduate and graduate students within the existing facilities of the department, which include a well-equipped biotechnology laboratory and an extensive, established mouse laboratory. Ph.D. required. Postdoctoral research and some teaching experience expected. Positions available September 1, 2000. The William Paterson University of New Jersey offers B.S. and M.S. degrees in biology and biotechnology. Applicants should submit a curriculum vitae, statement of research interests, and names, addresses, and telephone numbers of three (3) references to: Dr. Jane R. Voos, Chair, Department of Biology, William Paterson University, 300 Pompton Road, Wayne, NJ 07470. Closing date for applications is February 15, 2000. *William Paterson University of New Jersey, on a 250-acre suburban campus 20 miles from New York City, is an accredited state university and an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

CHEMISTRY FACULTY: Lake Superior State University (LSSU) is seeking applicants for an academic year (nine-month) tenure-track position in Environmental Chemistry/Environmental Science, beginning September 2000. Teaching responsibilities may include introductory and advanced environmental courses, support courses in chemistry, and others based on the applicant's interests and departmental needs. Additional duties include advising students and serving on committees. The position offers excellent opportunities to develop interdisciplinary undergraduate research programs within the university and in collaboration with State of Michigan and Province of Ontario organizations.

QUALIFICATIONS: An earned doctorate in chemistry, environmental science, or environmental engineering with an emphasis in environmental issues and applications, as well as a demonstrated commitment to undergraduate teaching and research is preferred. Graduate-level training in environmental organic chemistry is strongly preferred; a graduate degree in chemistry is required. Interdisciplinary teaching and research experience in environmental science, ecology, or GPS/GIS appropriate to the institution's undergraduate mission is highly desirable. Hands-on experience in scientific instrument operation and support are essential, as is a background in analytical procedures relevant to environmental monitoring including Environmental Protection Agency analytical methodologies. Excellent oral and written communication skills are also required.

Submit a letter of application, curriculum vitae, and a list of references to: **Chemistry Faculty Search, Human Resources Office, Lake Superior State University, 650 West Easterday Avenue, Sault Ste. Marie, MI 49783.** Application information can be sent to FAX: 906-635-2111 or to e-mail: humanresources@gw.lssu.edu. For additional information, contact the Human Resources Office at Telephone: 906-635-2213. Applications will be accepted until the position is filled.

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

TENURE-TRACK FACULTY POSITION EXPERIMENTAL BIOPHYSICS Rice University

The Physics Department at Rice University invites applications from persons with experimental research interests and expertise in the study of the physics of biological systems or materials at the level of tenure-track ASSISTANT PROFESSOR. Association with new university-wide initiatives in the biosciences and in nanoscale science and technology, affords multiple opportunities for interaction. Applicants should send a dossier that includes a curriculum vitae, a statement of research and teaching interests, a list of publications, and two or three selected reprints/preprints. Applicants should also arrange for three letters of reference to be sent to: H. W. Huang, Chair, Faculty Search Committee, Physics Department-MS 61, Rice University, P.O. Box 1892, Houston, TX 77251-1892. The appointments are available July 2000 or later. Review and interview will begin in January 2000. *Rice University is an Affirmative Action/Equal Opportunity Employer; women and underrepresented minorities are encouraged to apply.*

FACULTY POSITIONS IN BIOLOGY

Applications are invited for two tenure-track positions: 1) ASSISTANT PROFESSOR OF BIOLOGY—emphasis in physiological or evolutionary approach to plant ecology, 2) ASSISTANT PROFESSOR OF BIOLOGY and DIRECTOR OF ENVIRONMENTAL STUDIES AREA—emphasis in vertebrate ecology and conservation. For detailed information, contact the Department of Biology, California State University, 9001 Stockdale Highway, Bakersfield, CA 93311-1099. E-mail: epedroza@csubak.edu; website: <http://www.csub.edu/biology>; FAX: 661-665-6956; Telephone: 661-664-3089. *California State University, Bakersfield is an Affirmative Action/Equal Opportunity Employer.*



Sensor Research and Development Corporation

SRD is involved with fundamental R&D efforts associated with a wide variety of technologies applicable to chemical/biological sensor development. Principal focus lies in gas and liquid phase monitors using primarily semiconducting metal oxide chemiresistive and polymer based acoustic wave technologies. We have a strong academic partner at the University of Maine, with funding through a series of federal and industrial grants and contracts. Expansion of business has created the **immediate requirement** to fill recently established **senior level positions**.

Director of Science and Technology: Ph.D. or equivalent with min. 8 years experience in basic academic or industrial based research and 2 years experience in sensor development. This executive level position requires the ability to direct a multidisciplinary program, supervise all science and technology at SRD, establish corporate strategy for scientific activities, coordinate with the University of Maine, recruit for high skill positions, and represent SRD at program reviews and business meetings. Some opportunity to conduct independent research possible. Strong leadership and communication skills critical.

Analytical Chemist: Seasoned Ph.D. chemist with min. 7 years research experience in gas chromatography and mass spectroscopy. Analytical surface chemistry or liquid spectroscopy background desirable. Successful record of project management to supervise several ongoing efforts, develop independent research programs, and provide analytical backup support as required.

Mechanical Engineer: Experienced Ph.D./MS mechanical engineer with min. 7 years work in gas flow dynamics and heat transfer. Solid background in MEMS technology and nanofabrication a strong plus. Successful record of project management to supervise several ongoing efforts, develop independent research programs, and provide mechanical engineering support as required.

Competitive salary commensurate with experience. Full benefits package, relocation assistance, opportunity to recruit additional resources to augment existing personnel. Job details on SRD homepage: www.srdcorp.com

Please respond to: **Director of Operations, SRD Corp., 5 Godfrey Drive, Orono, ME 04473 or email: resume@srdcorp.com**

Tenure Track Faculty Positions In Molecular Genetics

GEORGE WASHINGTON UNIVERSITY MEDICAL CENTER

The Department of Biochemistry and Molecular Biology is seeking individuals to nucleate a group whose research approach emphasizes functional genomics/bioinformatics. The individual selected would complement areas of research at the Medical Center in cardiovascular biology, emerging infectious diseases, immunology, molecular oncology and neurosciences.

The successful applicant will be expected to have an externally funded, active, independent research program. He or she will also be expected to participate in teaching basic and advanced molecular biology and genetics to both medical and graduate students.

The department is part of a multi-institutional research and training program that includes TIGR (The Institute for Genomic Research), Children's National Medical Center, and the Holland laboratory of the American Red Cross.

Faculty rank and salary will be commensurate with prior experience. Applicants with a Ph.D. and/or M.D. degree and postdoctoral experience should submit a *curriculum vitae*, a concise statement of research accomplishments and future plans; and the names, addresses and phone numbers of four references to:

**Prof. Ajit Kumar, Chair
Faculty Search Committee
Dept. of Biochemistry and Molecular Biology
The George Washington University Medical Center
2300 Eye St., N.W.
Washington, D.C. 20037**

Review of applications will begin Dec. 18, 1999 and continue until the positions are filled.

The George Washington University is an Equal Opportunity/Affirmative Action Employer.



UNIVERSITY OF CALIFORNIA, SANTA CRUZ

Nominations and applications are invited for the position of

Dean Jack Baskin School of Engineering

Situated on the edge of Silicon Valley, The Jack Baskin School of Engineering (<http://www.cse.ucsc.edu>) was established in 1997 to provide research programs and curricula in computer and communications related disciplines, as well as emerging technologies, and to enable the University of California to respond to the changing demands of society and the high-tech global marketplace. Over the next decade, the School of Engineering is poised to grow nearly three-fold from its current base of four academic programs (Comp. Sci., Comp. Eng., Applied Math., and Elec. Eng.), and 33 faculty.

The Dean will provide the intellectual, academic, and administrative leadership in the instructional and research mission of the School of Engineering and the planned growth of new programs. The successful candidate must possess an outstanding record of teaching and scholarly achievement appropriate for appointment as a full Professor in the UC system and demonstrated achievement in establishing successful partnerships with industry, government and other institutions of higher education.

For a detailed description, see <http://www2.ucsc.edu/ahr/soe.html>. Review of applications and nominations will start 2/1/2000. The position will remain open until filled.

UCSC is an EEO/AA employer.



UNIVERSITY OF CALIFORNIA, SANTA CRUZ

The University of California at Santa Cruz invites nominations and applications for the newly created position of

Vice Chancellor of Research (VCR)

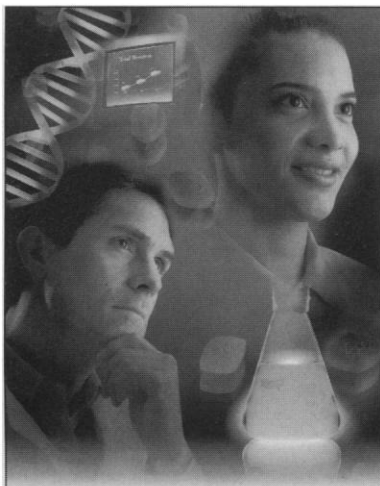
As a member of the Chancellor's Cabinet, the VCR provides the executive leadership to maintain and strengthen the institution's research excellence and infrastructure. This position is an unprecedented opportunity for an individual with vision and creativity to build on existing excellence and expand UCSC's capacity for innovative, interdisciplinary, and large-scale programs.

The Santa Cruz campus of the University of California has long been recognized as an outstanding research university with an uncommon commitment to undergraduate education. UCSC is the site of the newly established NSF Science and Technology Center in Adaptive Optics, and home to outstanding organized and multi-campus research units and centers of focused research activity. Over the past decade annual grants and contracts funding to the campus has increased 255% to its current level of \$51 million. This growth is expected to continue due to planned increases in student enrollment, expansion of campus facilities and addition of faculty.

The successful candidate must possess a strong record of leadership in research and scholarship, as well as demonstrated experience in research administration, the development of collaborative research ventures, and the ability to work with state and federal agencies and other research sponsors. The VCR must have the academic credentials appropriate for appointment as a full Professor in the UC system.

For a detailed description and application guidelines, see <http://www2.ucsc.edu/ahr/vcr.html>. Review of applications will start 2/1/2000. The position will remain open until filled.

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Assistant Scientist/Scientist Bioprocess Development

You will be involved in the development of production methods and analytical test procedures for viral and bacterial vaccines. This will include implementing new technologies and developing in-line analytical test procedures and downstream processing in strict compliance with USDA and EU regulatory requirements under GLP standards. Requires a BS in Biology, Biotechnology or Biochemistry and 0-3 years relevant experience; MS in Biology, Biotechnology, or Biochemistry desired. Ad Code: 9930187SCI

The selected candidates for the following positions will participate in the development and validation of new bioanalytical, immunological and chemical assays for viral/bacterial vaccines. Both positions require proficiency in sterile techniques, cell culture, assay development and basic

laboratory training in an appropriate field. Background developing diagnostic and serological reagents/tests, experience with infectious agents, and familiarity with GLPs are desired.

Assistant Scientist/Scientist Bacteriology/Virology

Requires a BS in Biology, Biochemistry or Biotechnology and 1-3 years relevant experience or an MS and 6+ years experience. Experience with animal health vaccines, knowledge of mammalian cell culture, medium optimization, ELISA, FA, potency assays, viral scale-up and viral purification, and basic techniques in molecular biology, protein separation, and chromatography are desired. Ad Code: 9930200SCI

Assistant Scientist/Scientist Microbiology

Requires a BS in Biology, Biotechnology or Biochemistry and 0-3 years relevant experience or an MS in Biology, Biotechnology or

Biochemistry. Experience with basic bioanalytical methods and the applied use of monoclonal antibodies and other test reagents will be expected in this role. Ad Code: 9904541SCI

We encourage all candidates to apply online through our web site at www.pfizer.com. If necessary, you may also mail your resume, indicating the appropriate Ad Code, to: Pfizer Inc, Central Research, c/o Aon Consulting, P.O. Box 25, Findlay, OH 45839. Pfizer is an equal opportunity employer.



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ORTHO BIOTECH

Scientist/Senior Scientist R&D Protein Development

In this position, you will play a major role in the process development and technology transfer of biopharmaceutical processes to GMP manufacturing. To qualify, you should have a strong background in protein structure and purification and excellent chromatography skills. You must be experienced in all phases of column chromatography, process yield improvement, impurity profiling, chromatography packing techniques, HPLC, IEF, and gel and capillary electrophoresis. Strong knowledge of protein stability, peptide mapping, carbohydrate analysis, Western Blot and ELISA assays is required. Experience and knowledge in virus/process validations and technical liaisons with biopharmaceutical and contract manufacturing are a plus.

To qualify for this position, you should have a Ph.D. in biochemistry or protein chemistry with 2+ years of industrial experience. A solid background in protein structure and characterization, as well as a strong knowledge/experience in glycoproteins is also necessary. Also, a BS or MS in biochemistry or chemistry with strong protein chemistry/biochemistry background and 4-6+ years' experience in protein chromatography and biopharmaceutical manufacturing may qualify. Excellent communication, interpersonal and computer skills are also very important.

As a valued team member, you'll receive a competitive salary and great benefits including medical/dental, a 401(k), a pension plan and a comprehensive wellness program. Please apply directly on-line at our web site www.jnj.com or forward a scannable resume, noting operating company as Ortho Biotech Inc. and Req. Code 992508SCI, to: Johnson & Johnson Recruiting, P.O. Box 16597, New Brunswick, NJ 08906-6597. Please note, resumes received electronically are reviewed within 24 hours. Mailed resumes are reviewed within 3 business days after receipt. We are an equal opportunity employer totally committed to diversity.

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Research Scientist



Amgen, a leading biopharmaceutical company, has an immediate opportunity within the Protein Chemistry group for a self-motivated, creative individual who will play a leadership role in developing biochemical assays that are amenable to high throughput screening.

Responsibilities will include coordination of target assay transfer from the Discovery Biology groups to HTS; identification, selection, and implementation of target appropriate assay readout technologies, reagents, and strategies.

The ideal candidate will have a Ph.D. in Biochemistry or a related discipline with 1-5 year's pharmaceutical industry experience. We require a broad understanding of enzymology, reaction kinetics, modern screening and automation technologies, as well as a demonstrated track record of successful assay development. Screening assay development and/or protein purification experience, specifically in the areas of Neurosciences, Oncology or Immunology, preferred.

We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center, and three weeks of vacation. For immediate consideration, please e-mail your ASCII text resume to **jobs@amgen.com Attn: Ad code 434** or mail to: **Amgen Staffing, Ad Code 434, P.O. Box 2569, Thousand Oaks, CA 91319-2569.** EEO/AA Employer M/F/D/V.

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Unilever is a leading consumer products company with world sales exceeding \$40 billion. Our Hair Care team supports our global business with a dominant position in much of Asia and Latin America, as well as a leading position in the United States behind such brands as Therma Silk, Finesse and Suave. Unilever's US laboratory employs over 300 scientists at our Edgewater, New Jersey location on the Hudson River, within 20 minutes of midtown Manhattan's diverse entertainment, arts and cultural resources.

Our success is built on innovation through collaborative scientific research and product development efforts, resulting in a consistent record of technological excellence. To support our continued success and growth, Unilever Research, US now offers new opportunities in the exciting world of Hair Science and Technology for high calibre individuals with expertise in the following areas:

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MS or PhD level with understanding of lipid bilayer properties, protein chemistry and biophysic/biophysical measurements. Prior experience working with hair skin is desirable.

Colloid Scientists/Physical Chemists

MS or PhD level with emphasis on surfactant science, polymer science, surface science, rheology and interactions in colloidal media.

Consumer Scientists

MS or PhD with experience in understanding consumer needs, habits, attitudes and product preference. Skill in interpretation of language and in evaluation of product performance with consumers.

Physical Organic Chemists or Color Chemists

MS or PhD with particular experience in bleach/oxidation chemistry, enzymatic redox chemistry, and expertise in chemistry taking place within composite solid or fibrous materials.

Physicists

PhD with expertise in light scattering behavior and the optical properties of composite materials.

Physicists/Measurement Scientists/ Material Scientists

MS or PhD level with expertise in developing new biophysical test methods or in making rigorous evaluation of the mechanical and optical properties of materials.

Psychologists

MS level with particular skill in development of sensory evaluation methods.

Unilever employees are totally committed to exceptional standards of performance, working together effectively with a willingness to embrace new ideas and learn continuously. We encourage our people to broaden their perspective and think beyond conventional scientific boundaries. We offer a competitive salary, flexible benefits and excellent opportunities for both personal and professional growth. If you would like to be a part of this dynamic team-based environment, we invite you to respond. For consideration please use position code HSS as the subject in your e-mail response or in the address on your envelope. Forward your resume to: Human Resources Dept., Unilever Research US, 45 River Road, Edgewater, NJ 07020 or E-Mail: job.mca@unilever.com We appreciate your interest in our company and will contact applicants who most closely meet our immediate requirements. Applicants must be authorized to work in the U.S.A. Unilever is an Equal Opportunity Employer m/f/d/v.



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Unilever Research

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and Unilever visit our Internet Web Site at <http://www.unilever.com>

Merck Research Laboratories, a world leader in biological and pharmaceutical research, has several excellent permanent and temporary full-time career opportunities available at our **Rahway, NJ** location (approximately 25 miles from New York City).

As a member of our **Immunology & Rheumatology Area**, you will be involved in studying leukocyte adhesion and trafficking. Research efforts will be aimed towards developing strategies to rapidly identify novel therapeutic compounds directed against leukocyte adhesion molecules.

ANIMAL PHARMACOLOGIST

Qualified candidates must possess a B.S., M.S., or equivalent in Biology, Physiology, Pharmacology, or a related discipline with at least 2 years of relevant laboratory experience. Candidates should have expertise in small animal handling, biochemical techniques, mammalian cell culture, and computer skills. Experience with in vivo models of inflammation is advantageous.

MOLECULAR BIOLOGIST

Qualified candidates must possess a B.S., M.S., or equivalent in Molecular Biology, Biochemistry, or a related discipline with at least 2 years of relevant laboratory experience. Candidates should have expertise in molecular biological techniques, biochemical techniques, mammalian cell culture, and computer skills. Proficiency in developing assays for high throughput screening is highly desired.

For both positions, the selected individuals will be highly motivated and will be expected to develop and contribute creative ideas towards designing research tools which are essential for early drug discovery efforts. A solid understanding of immunology and receptor biology is advantageous. In addition, candidates must possess the ability to work independently and as an integral member of a talented, interdisciplinary research team. Excellent communication, organizational, and problem-solving skills are also required.

Our salaries, benefits, and growth potential are excellent. Please send your resume, with 3 letters of reference, to: **Merck Research Laboratories, Human Resources, Ad# 112, P.O. Box 2000, RY80A-3, Rahway, NJ 07065.** We are an Equal Opportunity Employer, M/F/D/V.



The blueprint for success is here.

Lexicon Genetics is a genomics pharmaceutical company dedicated to the identification of new drugs through the rapid discovery of genes and their biologic function. Lexicon's LexGene™ Trap technology is a high-throughput gene trapping system that has allowed the company to identify thousands of novel human genes. The LexGene™ Trap technology has also propelled the development of OmniBank®, a proprietary library consisting of thousands of genetically altered mouse clones that are used to discover the biologic functions of genes as they relate to human disease.

Our rapidly expanding homologous recombination program efficiently generates custom alleles (e.g., subtle mutations, knock-in's, conditional mutations) in the mouse germ line using our proprietary KO system. The growth of this program has created the need to fill the following SCIENTIST positions:

SCIENTISTS

Defining Gene Function

Qualified candidates will possess a Ph.D. in Molecular Biology or related field, with proven expertise in animal cell culture, cDNA and genomic library manipulation, PCR, and computer proficiency. Experience in homologous recombination technology in ES cells and phenotypic analysis is an advantage. The demonstrated ability to handle multiple projects, supervisory experience, excellent communication skills and a team orientation are essential.

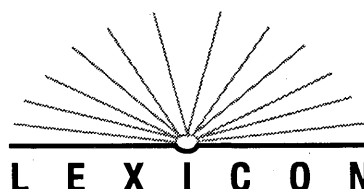
Lexicon Genetics employees enjoy a pleasant working environment in The Woodlands, TX located 30 miles north of Houston where a full range of cultural experiences awaits. We are interested in expanding our team with talented and motivated candidates. Lexicon provides an outstanding benefits package and rewarding career opportunities as well as 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) 364-3207
Email: resume@lexgen.com**

**For more information on our company please
visit our website at: www.lexgen.com**

E.O.E.





**The Mars Nutrition Research Council, Inc.
Postdoctoral Fellowship for
Phytochemicals and Human Health
Announcement for 2000**

The MNRC Postdoctoral Fellowship Award was created to encourage young scientists to focus their research on the investigation of the effects of functional food/food ingredients on human nutrition and health. The research should involve bioactive food components other than the traditional nutrients. The MNRC intends to fund two Fellows who have recently completed PhD or MD degrees. The MNRC plans to fund the fellowships for two years. Funding for the second year will be based upon demonstration of normal progress in the first year. Research should be carried out in the laboratories of established researchers, but the fellowship applicant and the host laboratory need not have previously conducted research on functional foods.

The criteria for selection will include quality of prior training and research, publications and abstracts of the applicant, the research proposal, and quality of the sponsoring institution/mentor.

Application and awards schedule:

2000 Applications Available November 15, 1999
Application Receipt Deadline February 1, 2000
Announcement of Awards March 15, 2000

To obtain an application form, please e-mail: hannum1@uiuc.edu
or write to: John W. Erdman, Jr., PhD
Executive Director
Mars Nutrition Research Council
P.O. Box 53
Urbana, IL 61803-0053

**FACULTY POSITIONS
DEPARTMENT OF HUMAN GENETICS**

A new Department of Human Genetics has been established at the University of Chicago, chaired by David H. Ledbetter, Ph.D. Strengths of the university genetics community include outstanding programs in cancer genetics, molecular cytogenetics, complex disease analysis, evolution and population genetics. We are recruiting tenure track faculty in broad areas of human genetics research, including (*but not limited to*) neurogenetics, cancer genetics, chromosome structure/function, and computational or experimental genomics. State-of-the-art research space is located in the new Institute for Molecular Medicine and generous start-up funds are available. Applicants must have a demonstrated ability to develop an independently funded research program of the highest caliber. Positions are open to Ph.D., M.D., or M.D./Ph.D. candidates. Individuals with ABMG board certification or eligibility are encouraged to apply. Although the search is primarily aimed at Assistant Professor level scientists, appointments at other levels, including senior appointments will be considered.

As we have several ads running concurrently, please indicate **junior faculty applicant** in the e-mail "subject" line by submitting a letter of interest, CV, a research statement, and the names and addresses of three references electronically (as Word or WordPerfect attachments) to:

Human Genetics Search Committee
recruit@genetics.bsd.uchicago.edu



THE UNIVERSITY OF CHICAGO

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Affirmative Action Employer.*

<http://www.genes.uchicago.edu>

CuraGen

Engineering Cures Through Genes

CURAGEN's rapid growth has created new career opportunities. Successful CuraGen employees have an entrepreneurial spirit, a passion for their work, and thrive in a challenging, team oriented environment. We are currently seeking exceptional individuals for the following positions:

Disease Gene Discovery

Directors - CNS Disorders & Autoimmune Disorders

Ph.D. and/or MD with a strong supervisory background to lead a team of talented scientists in the discovery and validation of targets and therapeutics in the field of neurologic and neuropsychiatric diseases (CNS Disorders - Job Code: 230-99) or inflammation and autoimmunity (Autoimmune Disorders - Job Code: 231-99). Candidates must have 5 years experience leading a team in the elucidation of pathways of CNS or autoimmune disorders and target validation. Extensive experience with genomics and molecular biology is required.

Disease Gene Discovery, Therapeutic Proteins

Research Scientist (Job Code: 166-99)

Ph.D. in biological field. Extensive experience with computational DNA and protein sequence analysis and exceptional organizational skills. Experience with one or more of the following: protein therapeutics, signal transduction, molecular biology, biochemistry, drug development, bioinformatics, differential gene expression analysis. You will develop strategies that utilize CuraGen's cutting edge functional genomics technologies to identify candidate therapeutic protein for development as new drugs.

Drug Development

Group Leader (Job Code: 234-99)

The successful candidate will have a Ph.D. and a minimum of 6 years post-doctoral experience in Molecular and Cell Biology. Previous industry experience demonstrating the ability to advance product candidates in the fields of Diabetes and Obesity, Cancer, Auto-Immunity and CMS Disorders is highly desirable. Individual will be responsible for the development of CuraGen's protein therapeutic and mAb lead molecules into clinical candidates.

Bioinformatics

Group Leaders - Gene Expression Profiling (Job Code: 55-99), Pharmacogenomics (Job Code: 57-99), Sequence Analysis (Job Code: 60-99)

Ph.D. in computer or biological sciences or strong track record and 2-5 years experience leading a product development team in the bioinformatics field. Must be able to define and implement the processes, analyses, and software for CuraGen's discovery services. Strong supervisory and management skills required.

Please send cover letter, resume/CV and 3 letters of recommendation and/or references.
CuraGen is an Equal Opportunity Employer.

**555 Long Wharf Drive
New Haven, CT 06511 USA
www.curagen.com
Email: jobs@curagen.com
1.888.GENOMICS**

UNIVERSITY OF MINNESOTA DULUTH
DEAN
COLLEGE OF SCIENCE AND ENGINEERING

Responsibilities: academic leadership of the College; administration and development of programs and resources; development and maintenance of community relationships and effective fund-raising strategies; maintenance of administrative relationships at UMD and within the University of Minnesota system.

The successful candidate must be able to: provide leadership to the College and work effectively with the faculty, staff, student body, and administrators within the University; encourage and promote cultural and human diversity in the College's faculty, staff, students, and curricula; develop external relations to support the College's programs; and demonstrate successful fund-raising abilities.

Essential qualifications: earned doctorate in a collegiate or related discipline; tenurable in a CSE department as full professor; three years of administrative experience. Five or more years administrative experience is desired. Applicants must have a proven record of administrative leadership and managerial experience including budgeting, personnel, and human relations; exhibit excellent communication skills; demonstrate appreciation for teaching, basic and applied research, and outreach; and be committed to the development of interdisciplinary programs.

College of Science and Engineering has ten departments: Aerospace Studies, Biology, Chemical Engineering, Chemistry, Computer Science, Electrical and Computer Engineering, Geology, Industrial Engineering, Mathematics and Statistics, and Physics offering 25 undergraduate majors and minors, 9 Master of Science programs and a Master of Industrial Safety. It collaborates with the School of Medicine, the Natural Resources Research Institute, and the Large Lakes Observatory. CSE enrolls 2000 undergraduate and 125 graduate students, and has 90 regular faculty positions and 41 civil service and professional staff.

The starting date is July 1, 2000. The position of Dean is a full-time, 12-month position with an initial appointment of three years. Salary is competitive and commensurate with credentials and experience.

Applications must include a letter expressing interest, experience, and strengths; a current resume; a personal statement detailing the applicant's accomplishments and philosophy concerning diversity; and the names, addresses, phone numbers and email addresses of three references who may be contacted. The committee will begin its review of complete applications on December 1, 1999 and will continue until the position is filled. Completed applications must be submitted to:

CSE Dean Search Committee
265 A.B. Anderson Hall
University of Minnesota Duluth
10 University Drive
Duluth, Minnesota 55812-2496
Telephone (218) 726-7253; Fax (218) 726-6386; email csedean@d.umn.edu
<http://www.d.umn.edu/cse>

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3M

Molecular Biologist

3M is seeking to enhance staffing in its Bioanalytical Technologies Project. Opportunity for a molecular biologist exists in contributing to product development programs at 3M Center located just outside of St. Paul, Minnesota.

The position requires a Ph.D. in molecular biology. Candidates with academic postdoctoral experience are encouraged to apply. Previous experience in industry is not required. A high level of proficiency with molecular biology techniques is expected. Familiarity with gene expression, cDNA library construction, and mutation analysis is desired.

Ability to work independently and as an integral member of an enthusiastic, interdisciplinary product development team is essential. Analytical and problem solving skills are key qualities.


3M provides an excellent benefits package with salary commensurate with experience. For confidential consideration please visit our web site at www.3m.com/us/careers and apply on line or submit two resumes (no phone calls or agencies please) to:

NAS Reply Service
Dept. 11MP73
Job #F01407
Riverview Office Tower
8009 34th Avenue South
Minneapolis, MN 55425-1619

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With a new state-of-the-art facility in Research Triangle Park, NC, Covance Biotechnology Services provides the biotechnology and pharmaceutical industry with world-class process development and cGMP manufacturing for recombinant products. Join us as we put our clients' products and your career onto the fast-track. We are currently recruiting for the following key position:

■ **MANUFACTURING SUPERVISOR, RECOVERY**
In this position, you will be responsible for supervising, scheduling, coordinating, and performing cGMP manufacturing operations. A BS or BA degree or equivalent (Science degree preferred) and 3+ years of experience in cGMP manufacturing of biologicals; or AA degree or equivalent (science training preferred) with 5+ years of experience in cGMP (pharmaceutical) manufacturing of biologicals is required. Experience with fermentation/recovery is preferred.

Please send resume to: Covance Biotechnology Services, Director—Human Resources, 3000 Weston Parkway, Cary, NC 27513; FAX: (919) 678-0555; E-mail: biotechcareers@covancebio.com Only those selected for further consideration will be contacted. PRINCIPALS ONLY. Covance is an equal opportunity employer.

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National Institute on Aging

BLSA DIRECTOR

**Intramural Research Program
National Institute on Aging/
Laboratory of Clinical Investigation
National Institutes of Health**

The NIA's Laboratory of Clinical Investigation is searching for a Director of the Baltimore Longitudinal Study of Aging (BLSA). The tenured position requires an M.D. or M.D., Ph.D., knowledgeable in aging or age-related research. Applicant should have senior leadership in biomedical or epidemiological science, understanding of strengths of long-term longitudinal study design, strong record of peer-reviewed extramural funding and outstanding publication record.

CHIEF, ENDOCRINE SECTION

**Intramural Research Program
National Institute on Aging/
Laboratory of Clinical Investigation
National Institutes of Health**

The NIA's Laboratory of Clinical Investigation is searching for physician-scientist for the position of Chief, Endocrine Section in the Laboratory of Clinical Investigation, NIA. The position requires an M.D. or M.D., Ph.D., with demonstrated national and international senior leadership in the area of endocrinology. Applicant must have strong record of peer-reviewed extramural funding, outstanding publication record and be knowledgeable in aging or age-related research.

Please submit a curriculum vitae, summary of current research, selected publications, and three letters of recommendation to:

**Mrs. Teri N. Stachowiak
Personnel Management Specialist
National Institute on Aging
5600 Nathan Shock Drive
Baltimore, MD 21224.**

Applications must be postmarked by 12/31/99

NIA is an Equal Employment Opportunity Employer

BIOTECHNOLOGY

Fully Funded - New Zealand Genomic Research

ViaLactia Biosciences, a *new* private-sector company with secure funding for at least 5 years has been established in Auckland, New Zealand. The research will be commercially focussed and profit driven. Genomic technologies will be applied to a range of outputs.

To build and lead a state-of-the-art bioinformatics platform we seek foundation scientists including **Bioinformaticians** possessing a PhD in biology, with appropriate computing and statistics experience. The appointees should also possess at least 3 years bioinformatics experience, a track record of achievements in this field, vision and leadership.

We also invite applications and expressions of interest from **Science Leaders** with PhDs in molecular biology, veterinary science, animal science or medicine to lead research groups in bovine genomics, functional genomics, plant genomics and downstream new product development.

We also seek a **General Manager Business Development** to create new business growth through the licensing, acquisition of products, and establishment of strategic alliances with the industry, collaborators and technology suppliers – a person with a successful record in these areas and a well-based knowledge of the relevant sciences.

Few international biotechnology companies are established in partnership with an industry of such focussed commitment, significant funding, and long range vision.

Address your enquiries to the confidential attention of Maurice C. Ellett, at:

**Signium International, P.O. Box 4046, Fax +64-9-30 90 885,
Auckland, New Zealand;
E-mail: [mellett@executivesearch.co.nz](mailto:mellet@executivesearch.co.nz)**

MOLECULAR SYSTEMATIC BIOLOGY

BIOLOGY DEPARTMENT

- The Department of Biology invites applications for a tenure-track position at the assistant professor level for Fall 2000. Preference will be given to candidates using molecular techniques to address problems of systematics, biogeography or geographically referenced phylogenies at population of highest taxonomic levels. Familiarity with wetland habitats or plant biodiversity, though not required, will be an added advantage. The candidate is expected to teach an undergraduate course in systematics, a graduate course in the area of specialization and to participate and teach in the General Education curriculum. The University has a strong faculty and very active research programs in environmental areas and doctoral programs in Environmental Biology and Environmental Sciences. The candidate is expected to contribute to the development of and strengthening of the doctoral program and to have an active research laboratory supported by extramural grants. Applicants should have a Ph.D. and postdoctoral (or equivalent professional) experience. Please submit a C.V., statement of teaching and research interests and goals, and 3 letters of reference to: **UMass Boston, Office of Human Resources, Search 830-255, 100 Morrissey Blvd., Boston, MA 02125.** Deadline for receipt of applications is December 24, 1999. For further information regarding this position, please email kamal.bawa@umb.edu. An Affirmative Action, Equal Opportunity, Title IX employer.

U Mass Boston

The University of Michigan Medical School

Post-doctoral positions are available to study the regulation of cytokine gene expression during lung inflammation and signal transduction activation products. A strong background in molecular biology and immunology is preferable. Applicants should have a Ph.D./M.D./D.V.M. or an equivalent degree. Applicants must be U.S. citizens or permanent residents. Send curriculum vitae and names, addresses and telephone numbers of 3 references to: **Peter A. Ward, M.D., Department of Pathology, University of Michigan Medical School, Box 0602, 1301 Catherine Street, Ann Arbor, MI 48109; Fax: (734) 764-4308.** The University of Michigan is a non-discriminatory, affirmative action employer.



The University of Michigan

FOOD AND DRUG ADMINISTRATION DEPUTY COMMISSIONER

The Food and Drug Administration is seeking candidates for the position of the Deputy Commissioner of the FDA. This position will be filled as either a Senior Executive Service or Senior Biomedical Research Service position. The incumbent serves as the Deputy Commissioner of the FDA and as alter ego of the Commissioner. Together with the Senior Advisor for Science of the agency, he/she will concentrate on strengthening the science base of the FDA and provide scientific leadership and oversight to the FDA Center Directors and the Associate Commissioner for Regulatory Affairs. The salary range is \$120,814 to \$151,800. Candidates must be widely recognized by peers for scientific accomplishments and leadership, and hold a M.D. degree from an approved medical school. Further information regarding qualification requirements and procedures for applying for the position may be obtained from Ms. Patricia Foley at 301-827-4120, or from the Office of Personnel Management website at www.usajobs.opm.gov.

**Ms. Patricia Foley
Office of Human Resources and Management Services
Food and Drug Administration
Room 7-59, HFA-400
Parklawn Building
5600 Fishers Lane
Rockville, MD 20857**

MINORITY OPPORTUNITIES AT THE MARINE BIOLOGICAL LABORATORY

Josiah Macy, Jr. Foundation Fellowships

2000 Summer Fellowships sponsored by the Josiah Macy, Jr. Foundation at the Marine Biological Laboratory (MBL) are available to three minority junior or senior faculty members to pursue independent research projects at the MBL. A unique feature of these fellowships provides for each faculty member to select a student to accompany him or her in this research undertaking. These fellowships provide travel, housing, laboratory, and research expenses for investigators and students as well as a weekly stipend for students.

Application Deadline: January 15, 2000

Applications will be reviewed by the MBL Fellowship Committee. Notification of decisions will be mailed by March 15.

For forms and additional information, please contact:
Fellowship Coordinator, Office of Research
Administration, Marine Biological Laboratory,
7 MBL Street, Woods Hole, MA 02543-1015
Tel: (508) 289-7441 / E-mail: skaufman@mbi.edu
Web: www.mbl.edu



**MARINE
BIOLOGICAL
LABORATORY**

Summer Program in Neuroscience, Ethics, and Survival (SPINES) – June 10 – July 8, 2000

This program provides a rich experience in neuroscience in seminar, lecture, and demonstration format; in ethics using case studies; and in survival skills such as grant writing, teaching, and public speaking, using a lecture and workshop format. Students also attend lectures in either the Neural Systems & Behavior or the Neurobiology courses. Fellowships are available to augment the training of both pre- and postdoctoral students. The program is targeted to groups underrepresented in science (African-American, Hispanic American, and Native American), although applications from any qualified student are welcome. SPINES is funded by a grant from the National Institute of Mental Health.

Directors: Joe L. Martinez, University of Texas at San Antonio; and James Townsel, Meharry Medical College.

Application Deadline: March 1, 2000

Contact: Admissions Coordinator, Marine Biological Laboratory
7 MBL Street, Woods Hole, MA 02543-1015
Tel: (508) 289-7401 / E-mail: admissions@mbi.edu

Visit courses.mbl.edu

The MBL is an EEO/Affirmative Action Institution

LeukoSite, Inc., located in Cambridge, MA, is a leader in white blood cell research and the development of novel therapeutics for the treatment of cancer and inflammatory, autoimmune, and viral disease. We are a publicly traded biopharmaceutical company with a number of strategic collaborations with major US, European and Japanese companies.

BIOCHEMISTRY, SENIOR SCIENTIST I

Candidates must have a Ph.D. with at least 2-3 years of relevant experience in protein biochemistry and enzymology. This scientist will be principally responsible for the characterization of novel therapeutic targets involved in ubiquitin-dependent proteolysis, including the identification of ubiquitination enzymes and their substrates. The candidate should have a strong background in cell cycle regulation, and have demonstrated accomplishments with multisubunit enzyme complexes. In addition, candidates must possess strong analytical skills and should have experience with recombinant protein expression and enzyme assay development. A background in cancer research is desired. The ability to work as part of a team is critical to success in this position. (VP)

Please send your CV with cover letter (referencing job code) to: Employee Services, LeukoSite, Inc., 215 First Street, Cambridge, MA 02142. An Equal Opportunity Employer. Visit our website at: www.leukosite.com.



DIRECTOR, DIVISION OF GENETIC AND REPRODUCTIVE TOXICOLOGY

National Center for Toxicological Research (NCTR)
Food and Drug Administration (FDA), Jefferson, Arkansas

NCTR, a research center of the FDA, U.S. Dept. of Health and Human Services, located 35 miles south of Little Rock, Arkansas, is seeking applicants for the position, Director, Division of Genetic and Reproductive Toxicology. NCTR conducts peer-reviewed scientific research that supports and anticipates FDA's current and future regulatory needs. This involves fundamental and applied research specifically designed to define biological mechanisms of action underlying the toxicity of products regulated by the FDA. Research is aimed at understanding critical biological events in the expression of toxicity and developing methods to improve assessment of human exposure, susceptibility and risk.

The Director of Genetic and Reproductive Toxicology is a senior scientist and supervisory research biologist responsible for organizing and directing the research programs of the NCTR in genetic toxicology and reproductive toxicology and related disciplines. The Division consists of two distinct laboratories: the Genetic Toxicology Laboratory performs research aimed at developing and testing procedures for evaluating mutagenic effects of chemical toxicants, and in particular, in developing improved methods for detecting genetic alteration; the Reproductive Toxicology Laboratory conducts studies to determine the effect of toxicants on the progeny of exposed animals using morphological, pharmacokinetic, DNA- and RNA-based methodology.

This is an excepted civil service managerial position in the Senior Biomedical Research Service (SBRS) with a starting salary range of \$110,000 to \$125,000. This position requires a doctoral degree in biomedicine or a related field. Applicants must have a doctoral level degree in biology or a related biological or physical science with special emphasis in genetic toxicology and/or reproductive toxicology. Individuals must be actively engaged in peer-reviewed original biomedical research and considered by their peers to be outstanding. Scientific stature and recognition as an authority and leader in genetic and reproductive toxicology research, or in closely related physical or biological fields is desired. Relocation expenses will be paid in accordance with FDA policy.

For additional information about this position, call Dr. Ralph Kodell at 870-543-7008. For a complete copy of the vacancy announcement, call 870-543-7760 or write the **FDA/NCTR Human Resource Management Office at: 3900 NCTR Road, Jefferson, AR 72079-9502**. The vacancy announcement can also be viewed on the Internet at www.usajobs.opm.gov.

Applications must be postmarked no later than December 31, 1999. *FDA is an Equal Opportunity Employer. FDA/NCTR is a smoke free environment.*

THE 2000 LOUISA GROSS HORWITZ PRIZE

The Louisa Gross Horwitz Prize was established under the will of the late S. Gross Horwitz through a bequest to Columbia University and is named to honor the donor's mother. Louisa Gross Horwitz was the daughter of Dr. Samuel David Gross (1805–1889), a prominent surgeon of Philadelphia and author of the outstanding *Systems of Surgery*, who served as president of the American Medical Association.

Each year since its inception in 1967, the Louisa Gross Horwitz Prize has been awarded by Columbia University for outstanding basic research in the fields of Biology or Biochemistry. The purpose of this award is to honor a scientific investigator, or group of investigators, whose contributions to knowledge in either of these fields is deemed worthy of special recognition.

The prize consists of an honorarium and a citation, which are awarded at a special presentation event. Unless otherwise recommended by the Prize Committee, the prize is awarded annually. The 1999 awardees were Pierre Chambon, M.D., Director, Institute de Génétique et de Biologie Moléculaire et Cellulaire, Université L. Pasteur, and Professor at the Collège de France; Ilklich-Strasbourg, France; Rober Roeder, Ph.D., Professor and Head, Laboratory of Biochemistry and Molecular Biology, The Rockefeller University;

Robert Tijan, Ph.D., Investigator, Howard Hughes Medical Institute, and Professor, Molecular and Cell Biology, University of California at Berkeley.

QUALIFICATIONS FOR THE AWARD

The Prize Committee recognizes no geographical limitations. The prize may be awarded to an individual or a group. When the prize is awarded to a group, the honorarium will be divided among the recipients, but each member will receive a citation. Preference will be given to work done in the recent past.

Nominations for prospective recipients should be given to the Chairman of the Louisa Gross Horwitz Prize Committee, Dr. Carol Prives. Nomination letters should include:

1. A summary, preferably less than 500 words, of the research on which this nomination is based.
2. A summary, preferably less than 500 words, of the significance of this research in the fields of biology or biochemistry.
3. A brief biographical sketch of the nominee, including positions held and awards received by the nominee.
4. A listing of up to ten of the nominee's most significant publications relating to the research noted under item 1.
5. A copy of the nominee's curriculum vitae.

An original and twelve (12) copies of each nomination should be sent to: Dr. Carol Prives, Chairman of the Louisa Gross Horwitz Prize Committee, Office of the Vice President for Health Sciences and Dean of the Faculty of Medicine, Columbia University, 630 West 168th Street, New York, NY 10032.

Deadline for the receipt of nominations is January 14, 2000.



Molecular Oncology Pathology Fellowship

The University of Michigan Health System

The University of Michigan Comprehensive Cancer Center and the Department of Pathology has a joint Fellowship designed to apply modern molecular techniques to problems in clinical oncology. We are seeking an academically-oriented pathologist, preferably with some laboratory experience. The Fellow will work under the direct supervision of Dr. Thomas J. Giordano and other members of the Department of Pathology and will be engaged in collaborative projects with a group of Clinical Oncologists headed by Dr. Laurence H. Baker, Director for Clinical Research. The Fellow will have access to PCR-based methods, in situ hybridization, immunohistochemistry, a laser-capture microdissection facility and the University of Michigan research community. The Fellowship begins July 1, 2000 and is designed to be one year. A second year of training may be possible. Interested applicants should submit a cover letter, curriculum vitae and list of references to: **Thomas J. Giordano, M.D., Ph.D., Department of Pathology, University Hospital, 2G332/0054, University of Michigan Health System, Ann Arbor, MI 48109-0054; Phone: (734) 936-6776; Fax: (734) 763-4095.** The University of Michigan is a non-discriminatory, affirmative action employer.



The University of Michigan

TWO FACULTY POSITIONS IN BIOLOGY UNIVERSITY OF ALASKA FAIRBANKS

The Institute of Arctic Biology and the Department of Biology and Wildlife invite applications for two tenure-track positions at the **Assistant Professor** level available 15 August 2000. Successful candidates will be expected to be effective in graduate student training and to have a serious commitment to undergraduate teaching. A Ph.D. degree is required, and previous postdoctoral and teaching experiences are preferred.

AQUATIC ECOLOGY. We seek applicants with the ability to develop externally funded research programs in aquatic ecology of streams, lakes or wetlands. Research opportunities include collaborative research programs in ecology (including the Bonanza Creek Long-Term Ecological Research program), fisheries, and wetlands ecology. Research expertise in land-water interactions, aquatic biogeochemistry, food webs, or aquatic habitat conservation is of particular interest. Teaching duties of two courses per year could include limnology plus a graduate course in the applicant's specialty, or other undergraduate courses such as general ecology and invertebrate zoology.

PLANT ECOLOGY/EVOLUTIONARY BIOLOGY. We seek applicants with the ability to develop externally funded research programs in plant ecology and/or plant evolutionary biology. We wish to fill gaps between established research programs in ecosystem ecology, plant physiological ecology, and systematics. Research facilities include a modern greenhouse complex, an automated DNA sequencing facility, and access to pristine boreal and tundra plant communities. Teaching duties of two courses per year could include introductory botany, plant ecology, plant systematics, biogeography, or evolution, and a graduate course in the applicant's specialty.

Applicants should submit a curriculum vitae, statements of teaching philosophy and research interests, representative reprints, and solicit at least three letters of recommendation to be postmarked prior to 1 January 2000 to: **Stuart Chapin, Chair of Aquatic Ecology Search, or Kent Schwaegerle, Chair of Botany Search, Institute of Arctic Biology, University of Alaska, Fairbanks, AK 99775.** Further information about the University and other open academic positions can be found at <http://mercury.bio.uaf.edu/>. We encourage applications from women, under-represented minorities. *The University of Alaska is an Equal Opportunity/Affirmative Action Employer.*

NEUROBIOLOGIST

BIOLOGY DEPARTMENT

- Assistant Professor, tenure-track position available in the Department of Biology September 2000. Successful applicant will be expected to teach undergraduate courses in Neurobiology, to participate in the development of, and teach in a general education curriculum, to establish an externally funded research program, and to direct the research of students at the undergraduate, masters and doctoral levels. Research focus could be in various areas of Neurobiology. Applications will be particularly welcome from candidates who apply genetic and molecular approaches to physiological problems. Ph.D., post-doctoral (or equivalent professional) experience. Send letter stating interests and goals in research and teaching, CV, and three reference letters to: **UMass Boston, Office of Human Resources, Search 825-255, 100 Morrissey Blvd., Boston, MA 02125.** Deadline for receipt of applications is December 24, 1999. This position is subject to availability of funds. For further information regarding this position, please email kenneth.kleene@umb.edu. An Affirmative Action, Equal Opportunity, Title IX employer.

U Mass Boston

COURSES & TRAINING

MODELING OF BIOLOGICAL SYSTEMS AN INTERDISCIPLINARY COURSE FOR BIOLOGISTS AND NON-BIOLOGISTS

MARCH 25 - MAY 4, 2000

Modeling of Biological Systems (MOBS) is an intensive, multi-disciplinary, residential lecture & laboratory course designed to train biologists and non-biologists to apply and adapt successful modeling approaches in biology to their own research. MOBS is for students in the biological, chemical and physical sciences, mathematics and engineering. The course is organized into thematic cassettes that focus on particular broad areas of biology.

The MOBS curriculum is geared to advanced graduate students and above. Students require at least a working knowledge of college mathematics, preferably including a facility with calculus. Successful applicants will receive pre-course assignments to help with their Course activities. The Course represents an innovative approach to education of modeling of biological systems in its thematic organization, modularity of content, interdisciplinary teaming, and multi-year involvement by both students and faculty.

The faculty will introduce students to successful approaches to modeling used to address contemporary biological questions in a quantitative fashion. With faculty tutelage, students will have hands-on opportunity to work with these models, and to learn to apply these approaches to their own scientific questions.

Additional information is available at <http://courses.mbl.edu>.

Funding support for the MOBS Course is provided by the Burroughs Wellcome Fund and the National Science Foundation.

Course Director: Robert B. Silver, Marine Biological Laboratory

Faculty: Robert Eisenberg, Rush University; Judith Herzfeld, Brandeis University; John Hummel, Argonne National Laboratory; Peter Kollman, UCSF; Stephen Leibholz, Chesapeake TechLabs; John Pearson, Los Alamos National Laboratory; Silvina Ponce-Dawson, Univ. of Buenos Aires; Gregory Petsko, Brandeis Univ.; Robert Silver, Marine Biological Laboratory; Merle Wastney, Georgetown Univ.; and others to be announced.

Application Deadline: December 30, 1999.

Course Fee: \$3,750 (room & board is provided).

Scholarship assistance is available.



**MARINE
BIOLOGICAL
LABORATORY**

For More Information or Application Contact:
Admissions Coordinator, Marine Biological Laboratory
7 MBL Street, Woods Hole, MA 02543
(508) 289-7401 / email: admissions@mbl.edu

The MBL is an EEO Affirmative Action Institution

University of Minnesota, Twin Cities Campus Faculty Positions in the Department of Plant Biology

The University of Minnesota has begun an initiative in Cell and Molecular Biology that provides for the hiring of at least eight new faculty in the Department of Plant Biology over the next three years. The new positions will expand the University's current strength in Plant Development and in Genomics.

Position in Plant Developmental Biology

Three positions in the area of plant developmental biology will be filled during the next three years. The Department is now accepting applications for one or two tenure-track positions in the area of plant development at the level of Assistant Professor. Applications also will be considered from outstanding senior scientists at the Associate/Full Professor level. For more information, please consult <http://biosci.cbs.umn.edu/cbs.html>.

Successful candidates will be expected to develop a strong, externally funded research program and will contribute to the undergraduate and graduate teaching programs of the Department. All candidates must have a Ph.D. or international equivalent, at least two years of postdoctoral experience, and a strong publication record. Successful candidates will receive a substantial start-up package and a salary commensurate with experience. Please send a curriculum vitae, statement of research and teaching interests, and three letters of recommendation to the **Plant Development Search Committee, Department of Plant Biology, University of Minnesota, 1445 Gortner Ave., St. Paul, MN 55108.** Review of applications will begin December 15, 1999.

Position in Plant Genomics

At least four new positions in the area of plant genomics will be filled during the next three years. The Department is now accepting applications for one or two tenure-track positions at the Assistant Professor level. Applications also will be considered from outstanding senior scientists at the Associate/Full Professor level. The Department seeks exceptional scientists working in experimental or computational aspects of plant genomics. For more information, please consult <http://biosci.cbs.umn.edu/cbs.html> or contact Dr. Nevin Young, Search Committee Chair, at nevin@tc.umn.edu.

Successful candidates will be expected to develop a strong, externally funded plant genomics research program and contribute to the undergraduate and graduate teaching programs of the Department. All candidates must have a Ph.D. or international equivalent and a demonstrated research emphasis in plant genomics or plant molecular biology. Desired experience includes postdoctoral experience, a strong publication record, and evidence of effective teaching experience. Successful candidates will receive a substantial start-up package and a salary commensurate with experience. Please send a curriculum vitae, statement of research and teaching interests, and three letters of recommendation to: **Plant Genomics Search Committee, Department of Plant Biology, University of Minnesota, 1445 Gortner Ave., St. Paul, MN 55108.** Review of applications will begin December 15, 1999.

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



DIRECTOR LIFE SCIENCES AND BIOTECHNOLOGY INSTITUTE Purdue University

Purdue University seeks a person with vision to direct its Life Sciences and Biotechnology Institute. The Institute's mission is to enhance life science research at Purdue by facilitating coordination and providing focus for interdisciplinary research across the Schools of Agriculture, Consumer and Family Science, Engineering, Liberal Arts, Pharmacy, Science, and Veterinary Medicine. The University is committed to enhancing Life Sciences and Biotechnology research and is prepared to invest resources to achieve this end.

Position Responsibilities

The director will coordinate and promote life science research activities and graduate education programs within the University; lead development of collaborative life science relationships with governmental and private sectors; assist faculty in identifying research opportunities; and organize life science-related multidisciplinary research and outreach programs. The position is full-time with a minimum of half-time effort devoted to Institute leadership. Remaining effort can include responsibilities in research, education, or other administrative duties.

Requirements

Applicants must have an M.D./D.V.M. or Ph.D. in a life science-related discipline. He or she is expected to have effectively directed an extramurally funded research program. Administrative and academic experience should be commensurate with an appointment to a senior level faculty position in one of the participating Schools.

The director will report to the Vice President for Research and Dean of the Graduate School.

Applications/Nominations

A review of applications will commence by January 10, 2000, and continue until the position is filled. Nominations or applications containing a resume, and names of three references should be sent to:

Dr. Harry Morrison, Dean of Science
1390 Mathematical Sciences Building
Purdue University
West Lafayette, IN 47907-1390
Phone: (765) 494-1730
Fax: (765) 494-1736
morrison@science.purdue.edu

Purdue University is an equal opportunity/affirmative action employer.

TENURE-TRACK FACULTY POSITIONS

The Purdue University Department of Medicinal Chemistry and Molecular Pharmacology invites outstanding scientists to apply for faculty positions at any level. We seek scientists with research interests at the interface of chemistry/biology/medicine who use molecular approaches to understand mechanisms or treatment of human disease. Areas of specific interest include, but are not limited to: *biophysical/bioanalytical sciences, bioorganic or synthetic medical chemistry, computational chemistry/biology, and diagnostic imaging or targeted radiotherapy*. A successful candidate is expected to establish and/or maintain a strong research program with extramural funding. Commitment to excellence in teaching at the undergraduate and graduate levels will be required. The Department offers a vigorous and growing research environment with first-rate instrumentation; numerous opportunities exist to participate in interdepartmental programs such as the Purdue Cancer Center, Purdue University Neuroscience, and related graduate programs. Candidates must hold a Ph.D.; junior level applicants are expected to have at least two years of postdoctoral training. Minority and women scientists are especially encouraged to apply. Applicants should submit a curriculum vitae, a detailed description of research plans, and names and addresses of three references to: **Chair, CB Faculty Search Committee; Department of Medicinal Chemistry and Molecular Pharmacology; 1333 Robert Heine Pharmacy Building; Purdue University; West Lafayette, Indiana 47907-1333**. Review of the candidates will begin on January 3, 2000 and continue until the positions are filled.

*Purdue University is an Equal Opportunity/
Equal Access Employer.*



**Boehringer
Ingelheim**

*Innovation in
antiviral research*

Boehringer Ingelheim (Canada) Ltd. Bio-Méga Research Division

Boehringer Ingelheim is one of the leading international research-based pharmaceutical companies.

Bio-Méga, the research division of Boehringer Ingelheim (Canada) Ltd., is one Canada's largest pharmaceutical research centers.

There is a career opportunity within our company for the following position.

PATENT PROFESSIONAL

We are searching for a patent professional with a chemistry background for drafting, filing and prosecuting patent applications in the pharmaceutical art.

The candidate should preferably possess a graduate degree in organic/medicinal chemistry, have passed the certification examinations, and have at least 3-5 years practical experience in drafting and prosecution in the chemistry area.

Experience with surveillance of infringement and right of use issues would be an asset.

We are looking for a dynamic professional working well in a team environment and desires to be a fully integrated part of research teams and of the international corporate patent division. The person must be willing to rise to the challenge of pharmaceutical and biotech patents in our organization.

Competitive compensation and benefits are offered.
Should you be interested in this position, please apply to:

Ms. Nathalie Lefort
Human Resources Specialist
Boehringer Ingelheim (Canada) Ltd.
Bio-Méga Research Division
2100 Cunard Street
Laval (Quebec), H7S 2G5
Fax: (450) 682-8434

Email: nlefort@lav.boehringer-ingelheim.com

For more information on our company, you can visit our website:
www.boehringer-ingelheim.com

Boehringer Ingelheim (Canada) Ltd. is committed to employment equity

CHAIR DEPARTMENT OF PHYSIOLOGY AND PHARMACOLOGY

The Sophie Davis School of Biomedical Education/The City University of New York Medical School, invites applications and nominations for the position of Chair, Department of Physiology and Pharmacology. The mission of The Sophie Davis School of Biomedical Education is to provide a comprehensive education in basic sciences to the future primary care physicians of New York City.

Preference will be given to candidates who have earned a M.D. degree and/or a Ph.D. in the field of physiology, pharmacology or related disciplines. The Chair will be expected to promote an environment that fosters excellence in all aspects of the teaching and research mission of the department, and participate in the development and implementation of an interdisciplinary curriculum in conjunction with other basic science departments. Applicants are expected to have an active research program with demonstrated success in obtaining peer-reviewed funding and a national and international reputation. The candidate should demonstrate leadership skills, have a commitment to academic excellence, and possess interpersonal skills necessary to interact effectively with faculty, students, staff, and external constituencies.

Review of candidates will begin after December 31, 1999 and continue until the position is filled. Interested applicants should send a copy of their curriculum vitae, a personal statement of interest, and the names and contact information of three references to: **Abraham L. Kierszenbaum, M.D., Ph.D., Chair of the Search Committee, Office of the Dean, Science Building, Room J-909, 138th Street and Convent Avenue, New York, NY 10031.**



**The Sophie Davis School of
Biomedical Education/
THE CUNY MEDICAL SCHOOL
The City College of New York
EO/AA Employer M/F/D/V**

**NATIONAL INSTITUTES OF HEALTH
OFFICE OF THE DIRECTOR
OFFICE OF SCIENCE POLICY
BETHESDA, MARYLAND**

Health Science Policy Analyst, GS-601-12/13/14
Opening Date: November 19, 1999
Closing Date: December 29, 1999
Announcement Number: OD-99-7144

The Office of Science Policy in the Office of the Director (OD), National Institutes of Health (NIH) is seeking a Health Science Policy Analyst. This individual is responsible for identifying emerging research and policy issues; analyzing and developing policies that affect the conduct of medical research; interacting with a variety of senior policy and scientific staff in the public and private sectors; planning and organizing meetings related to science policy issues; and preparing reports and analyses on a variety of scientific and policy arenas. A candidate with a Ph.D. or M.D. degree is highly desirable, although not required. Applications from women and minorities are strongly encouraged.

SALARY RANGE AND BENEFITS: This is a Civil Service Position with starting annual salary ranges from \$48,796 - \$89,142 (including locality pay) commensurate with experience/present salary. Benefits include health and life insurance, retirement, paid holidays, vacation, and sick leave.

BASIC ELIGIBILITY: U.S. Citizenship is required. Applications must meet the basic experience and educational qualifications requirements for U.S. Government Health Science Administrators. In order for the qualifications to be validated and considered, it is mandatory that you submit a description of your proficiency in the stated Knowledge, Skills and Abilities (KSAs): 1) Skill in written communication in order to translate scientific or other highly technical information into a variety of documents which can be understood by a non-scientific/technical audience; 2) Skill in the analysis of medical or health research policy issues; 3) Knowledge of a biomedical research area, e.g., neuroscience, immunology, medicine; 4) Skill in communicating orally with a variety of audiences on medical/health research and policy issues; 5) Ability to coordinate the activities of multiple organizational components.

APPLICATION PROCEDURES: Please submit your resume, curriculum vitae, or OF-612, Optional Application Form by the closing date to:

**NATIONAL INSTITUTES OF HEALTH
OD EXECUTIVE OFFICE
BUSINESS MANAGEMENT OFFICE - TEAM B
ATTENTION: MS. SHANTE THOMPSON
Building 31, Room 1C17
31 Center Drive MSC 2264
Bethesda, Maryland 20892-2264**

To receive an official copy of the vacancy announcement, please call our automated fax service at (301) 402-4111 and request #97144 or access our website at <http://careerhere.nih.gov>. For TTY, please call (301) 402-1970. To receive information on the qualification requirements or application procedures, or if you wish to obtain a position description, please call Ms. Thompson at (301) 496-2400. Applications must be postmarked by the closing date of 12/29/99.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

**ASSISTANT
PROFESSOR
IN BIOLOGY**

Morehead State University invites applications for a tenure track position of Assistant Professor in Biology (Biological Education) beginning August 2000.

Responsibilities: Teach introductory biology for elementary education majors, a senior biology teaching methods course, and a graduate course in environmental education; conduct research; provide academic service; and participate in professional achievement activities. Ability to teach an upper level Ornithology course preferred.

Qualifications: Ph.D. in biological science from an accredited institution. ABDs by August 1, 2000 may be considered. Experience at the primary/secondary level and/or as a park naturalist. Must be devoted to the development of students as outstanding science teachers. Evidence of excellent written and oral communication skills.

To ensure consideration, submit letter of application, CV, statements of teaching philosophy and research interests, official transcripts, and three letters of recommendation by January 7, 2000, to: Office of Human Resources, Attn: Biological Ed.#352, Morehead State University, HM 101, Morehead, KY 40351.

MSU is an EO/AA employer.

**NEW YORK MEDICAL COLLEGE
CHAIR of MICROBIOLOGY
and IMMUNOLOGY**

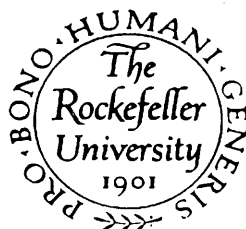
New York Medical College seeks an outstanding individual to head the Department of Microbiology and Immunology. The College (www.nymc.edu) is located on an attractive campus in suburban Westchester County in the scenic Hudson River Valley within 30 minutes of Manhattan. The College was founded in 1860 and has a strong academic tradition. Our faculty is committed to the quality education of our students and to excellence in research. The position offers an excellent opportunity to build the Department, as the College has embarked on a significant expansion to modernize its teaching and research facilities. The Department participates extensively in undergraduate medical education as well as in Ph.D. and M.S. graduate programs. We seek an individual who has a strong ongoing research program, effective leadership skills and a commitment to excellence in teaching and research. Applications should include a c.v. and a narrative statement of research achievements and administrative philosophy.



Dr. Ernest Y.C. Lee
Chairperson, Search Committee
Department of Biochemistry and Molecular Biology
New York Medical College
Valhalla, NY 10595

Visit our website at: www.nymc.edu

New York Medical College is an EEO/AA Employer



THE ROCKEFELLER UNIVERSITY

Under the new leadership of President Arnold J. Levine, The Rockefeller University has developed a comprehensive strategic plan that calls for recruitment of 15-24 faculty members at both entry and tenured levels over the next 5 years. Our initial focus will include cancer biology, chemistry, developmental biology, neuroscience, and patient-oriented research.

Cancer Biology: One appointment to a tenured professorial chair, endowed by the Strang Foundation, will be made in fundamental cancer biology. Areas of interest include signal transduction, genome stability, and control of gene expression.

Chemistry: One or two appointments to the tenure-track rank of Assistant Professor/Head of Laboratory will be made in chemistry, with an emphasis on basic research involving synthesis of novel chemical reagents for studies of complex biological systems.

Developmental Biology: One or two appointments to the tenure-track rank of Assistant Professor/Head of Laboratory will be made in developmental biology. The University is particularly interested in scientists working on the definition of embryonic events at the molecular level.

Neuroscience: One or two appointments to the tenure-track rank of Assistant Professor/Head of Laboratory will be made in molecular neuroscience, with the goal of building a strong research program at the interface between molecular biology and systems neuroscience.

Patient-Oriented Research: An experienced medical scientist will be appointed to the post of Physician-in-Chief in the University's Clinical Research Center. The successful applicant will be expected to conduct a vigorous, cutting-edge program of clinical investigation and play a central leadership role in the physical renaissance of The Rockefeller University Hospital, which will be accompanied by a substantial increase in our commitment to patient-oriented research.

Tenure-level applicants with internationally recognized research programs should submit a Curriculum Vitae (with publication list), a statement of current and future research interests (no longer than three pages), and the names and addresses (including telephone, facsimile, and e-mail information) of 10-20 referees. Entry-level applicants who have demonstrated outstanding potential for independent research should submit the same Curriculum Vitae and research statement and arrange for five letters of reference to be sent directly to the University.

All materials should indicate the search for which the application is intended and be addressed to:

Office of Academic Affairs, The Rockefeller University, 1230 York Avenue, Box 55, New York, NY 10021 USA

The closing date for applications, including letters of reference, is **January 1, 2000**.

The Rockefeller University is an Affirmative Action/Equal Opportunity Employer. Further information about the research and educational programs of The Rockefeller University can be found on the Internet at <http://www.rockefeller.edu/>

Program Analyst

The Howard Hughes Medical Institute, a national and international philanthropy devoted to biomedical research and science education, is seeking a **Program Analyst** to work in the **Office of Grants and Special Programs**. This position will assist in the development and operations of grants programs.

Responsibilities include assisting in the management of periodic program competitions and awarded grants. Competition activities include developing program policies; reviewing applications for eligibility; and recruiting panel members, assigning proposals, and coordinating panel meetings for reviewers. Awarded grants activities include coordinating award/payment procedures, responding to inquiries, and collecting/reviewing annual program and financial reports. Other duties include assisting in the design/implementation of program databases, assessment projects, and program web pages; preparing reports/publications; conducting research; and responding to inquiries from applicants, grantees, and the public.

Specific duties for the **International & Research Resource** programs also include: processing/tracking grant payments, organizing the scientific sessions of the annual meetings of grantees, and coordinating activities with the Moscow Office.

Requires: A Ph.D in Cell or Molecular Biology; 2+ years of professional experience, preferably in an area of research administration; strong management, organizational, communication, interpersonal, and information-gathering skills; and excellent computer skills (Microsoft Office, Internet, client/server, web-based database applications).

HHMI offers a competitive salary and excellent benefits package. Please send your resume, indicating salary requirements, to:

HHMI, Attn: HR Dept., GPA, 4000 Jones Bridge Road, Chevy Chase, MD 20815-6789. Visit our websites at: www.hhmi.org; hhmi.org/grants/international

HHMI is an Equal Opportunity Employer.



Faculty Positions Department of Biology University of Pennsylvania

The Department of Biology is in the midst of a significant expansion, and wishes to recruit new tenure-track faculty in the following areas:

Cell Biology: We seek a colleague employing state-of-the-art methods to study fundamental problems in cell biology, using any experimental system (animal, fungal, plant, microbial). Possible areas of interest include: biochemical processes, motility/cytoskeletal dynamics, cell cycle regulation, signal transduction, subcellular structure/trafficking, development/differentiation, cell-cell or host-pathogen interactions, etc.

Computational Biology/Genomics: The successful applicant will develop an independent program in any area of computational biology; this position may – but need not – focus on genome informatics. Particular attention will be paid to candidates working on projects with an applied or experimental orientation, and those poised to take advantage of the interdisciplinary research and educational environment at Penn.

Applicants are expected to have demonstrated excellence and productivity in research, and a desire to participate in teaching at both the undergraduate and graduate level. We anticipate that appointments will be made at the Assistant Professor level, but outstanding senior candidates will also be given serious consideration. Applicants should send a CV, description of research interests, and up to three reprints to:

**Cell Biology or Computational Biology Search
Department of Biology, University of Pennsylvania
Philadelphia, PA 19104-6018 U.S.A.**

Applicants at the Assistant Professor level should also arrange for at least three letters of reference to be sent to the same address. Review of applications will begin January 15, 2000. Further information on the department, including a more detailed description of these positions and additional searches in **Ecology and Plant Biology**, can be found on-line, at: www.sas.upenn.edu/biology.

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

Herpetologist Assistant/Associate Curator

The Field Museum is seeking an outstanding and experienced systematic herpetologist to fill a career-track appointment at the level of Assistant or Associate Curator in the Department of Zoology/Division of Amphibians and Reptiles. Candidates should have a Ph.D. and a proven record of scientific achievement in collections-based systematic research, with emphasis on topics in evolutionary biology such as functional morphology, molecular or theoretical phylogenetics, developmental biology, biogeography, or conservation biology. In addition to research, responsibilities include curation of collections, administration, and participation in public exhibit and education programs. Strong relationships with local universities provide opportunities for participation in graduate and undergraduate training. Applications should include: (1) a Curriculum Vitae; (2) a statement of research interests and career objectives; (3) names and contact information for three people from whom letters of recommendation may be sought; (4) copies of up to 5 relevant publications. Review of applications will begin on January 10, 2000. Send materials to: Search Committee, Department of Zoology, Field Museum, 1400 South Lake Shore Drive, Chicago, IL 60605-2496. E-mail inquiries: lhaney@fmnh.org. The Field Museum's homepage is www.fieldmuseum.org. The Field Museum is an Equal Opportunity Employer, and encourages applications from women and minorities.

The Field
Museum

POSTDOCTORAL POSITION IN PROTEOMICS AND/OR FUNCTIONAL GENOMICS

The Analytical Chemistry Sciences Group (CST-9) is seeking candidates to perform basic research in proteomics and/or functional genomics. A background in molecular biology, including cloning and subcloning of genes, expression and purification of gene products in bacteria, and/or mammalian systems in the context of functional genomics and proteomics is required, and research experience with state-of-the-art biological mass spectrometry is desirable. For initial consideration, contact Dr. Xian Chen at: xchen@telomere.lanl.gov.

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

To apply, submit a resume and publications list with a cover letter outlining current research interests, referencing Job #SCIENCE-PD005370, to: postdoc-jobs@lanl.gov (no attachments!) OR SUBMIT TWO COPIES to: Postdoc Program Office, MS-P290, Los Alamos National Laboratory, Los Alamos, NM 87545.



Los Alamos
NATIONAL LABORATORY
Operated by the University of
California for the Department of
Energy, AA/EOE

www.lanl.gov/jobs

STONY BROOK POSTDOCTORAL POSITIONS

STATE UNIVERSITY OF NEW YORK

The following positions are anticipated to be available in the Winter/Spring 2000.

Plant Biology: Cell-to-cell transport and nuclear import; Vitaly Citovsky, Biochemistry & Cell Biology

Design, fabrication and characterization of semiconductor lasers; G. Belenky, Electrical & Computer Engineering

Molecular Biology (Capillary DNA sequencing); V. Gorfinkel, Electrical & Computer Engineering

Organic Chemistry (Technology of capillary DNA sequencing); V. Gorfinkel, Electrical & Computer Engineering

Electrical Engineering (FPGA, CMOS fast analog circuits, software design, CAD design); V. Gorfinkel, Electrical & Computer Engineering

Optical Engineering (Fiber technology, semiconductor lasers, micro optics); V. Gorfinkel, Electrical & Computer Engineering

Mechanical Engineering (CAD design); V. Gorfinkel, Electrical & Computer Engineering

Molecular mechanisms that determine the abundance and distribution of ion channels in neurons; James S. Trimmer, Biochemistry & Cell Biology

Glycobiology: Structure and function of carbohydrate modifications on proteins; Robert S. Haltiwanger, Biochemistry & Cell Biology

Developmental regulation of vesicular trafficking in yeast; Aaron Neiman, Biochemistry & Cell Biology

Electrostatic Binding of Proteins to Membranes: Relevance to signal transduction; Stuart McLaughlin, Physiology & Biophysics/Neurobiology & Behavior

Polyelectrolyte/surfactant complexes, polymer nanostructure and chain conformation, colloids and fibers; Ben Chu, Chemistry

Atherosclerosis Research: Cell biology of lipoproteins and their receptors; David L. Williams, Pharmacological Sciences

Neurobiology of thalamus and vision; S. Murray Sherman, Neurobiology & Behavior

Yeast Molecular Genetics: Surface virulence determinants of pathogenic fungi; Neta Dean, Biochemistry & Cell Biology

Chromosome structure and function during meiosis in yeast; Nancy Hollingsworth, Biochemistry & Cell Biology

Computational Applied Mathematics: Fluid dynamics, elastic-plastic media, flow in porous media; James Glimm, Applied Mathematics & Statistics

Yeast Nuclear Genes: Chromatin structure and function, histone modification, silencing; Rolf Sternglanz, Biochemistry & Cell Biology

Structural Biology: Crystallographic studies of proteins involved in ubiquitin-dependent protein degradation; Hermann Schindelin, Biochemistry & Cell Biology

Cutaneous Gene Therapy: Retroviral vectors, stem cells; Lorne Taichman, Oral Biology & Pathology

Molecular biology of DNA lesion-induced mutagenesis; Masaaki Moriya, Pharmacology

Mammalian fertilization, peptide synthesis, enzymology; Nicole S. Sampson, Chemistry

Solid state NMR of catalysts and disordered solids; Clare P. Grey, Chemistry

Theoretical Physics: Gauge field theory, elementary particle theory, statistical mechanics, supersymmetry, superstrings; P. van Nieuwenhuizen, C.N. Yang Institute for Theoretical Physics

Physiological Ecology of Fishes: Evolution of growth rate; David O. Conover, Marine Sciences Research Center

Proteases in neurobiology; genetics of early development; Sidney Strickland, Pharmacology

Delivery of aerosolized agents to humans; Gerald C. Smaldone, Pulmonary & Critical Care Medicine

Behavioral Neuroscience: Functional and basic anatomy of the circadian and subcortical visual system; L. P. Morin, Psychiatry

Molecular basis of hypercoagulability; Wadie F. Bahou, Medicine/Hematology

Genetic treatments for hemophilia A; Wadie F. Bahou, Medicine/Hematology

Cancer Biology: Cell surface antigens in metastasis; Wen-Tien Chen, Medicine/Oncology

Development and operation of cDNA MicroArray and laboratory robotics; Clint Rubin, Center for Biotechnology - Applied Bioscience Laboratory

Identification and validation of functional genomics technologies; Anil Dhundale, Center for Biotechnology - Applied Bioscience Laboratory

Identification of DNA and protein modifications by MALDI and ESI/MS/MS techniques; Charles R. Iden, Pharmacology

Oculomotor system and behavior; James W. Gnadt, Neurobiology & Behavior

Meiosis, DNA replication and phospholipid signaling; JoAnne Engebrecht, Pharmacology

Organic Synthesis: Preparation of designed supramolecular structures; Joseph W. Lauher, Frank W. Fowler, Chemistry

Flow-induced crystallization in polymers; polymer rheology, processing and structure relationships; Ben Hsiao, Chemistry

Molecular Carcinogenesis: Site-specific mutagenesis in mammalian cells; Arthur P. Grollman, Pharmacology

Submit resumes, indicating the name of the researcher, by December 1, 1999 to: George Meyer, Office of the President, State University at Stony Brook, Stony Brook, NY 11794-0701; e-mail: postdocads4@notes.cc.sunysb.edu

The State University at Stony Brook is an Affirmative Action/Equal Opportunity Educator and Employer

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Science Professional Network
announces the launch of its new
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www.sciencecareers.org

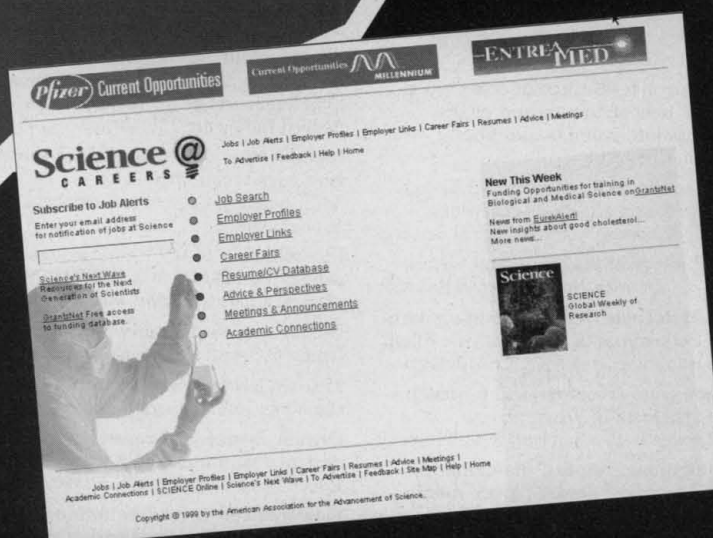
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Axon Instruments, Inc., the leader in providing solutions for electrophysiology and imaging, seeks candidates to join our Marketing and Scientific Applications department. The MSA Scientist will provide application solutions to the scientific community, troubleshoot complex technical problems, and develop and promote our products.

Requirements: Ph.D. in electrophysiology, biophysics, or physiology. Experience with cellular electrophysiology and fluorescence imaging desirable. Must possess excellent verbal and written communication skills.

Please send, fax or email your resume and cover letter to: **Axon Instruments, Inc.**, Human Resources, Attn: Job# SC1119-SAMS, 1101 Chess Drive, Foster City, CA 94404; fax: (650) 286-6286; email: jobs@axon.com.

Principals only
EOE/AA

Axon Instruments, Inc.

DEPARTMENT OF BIOCHEMISTRY & MOLECULAR BIOLOGY THE PENNSYLVANIA STATE UNIVERSITY

FACULTY POSITION (Assistant Professor, Tenure Track) MICROBIAL PHYSIOLOGIST/FUNCTIONAL GENOMICS

Penn State has made a major commitment to promoting excellence in life sciences research and education and is expanding its life sciences faculty. Specifically, the University, through the Life Sciences Consortium, has supported significant expansion of faculty in microbiology campus-wide and is contributing to current NSF training grants in Microbial Structural Biology and Biogeochemistry. The Department of Biochemistry and Molecular Biology at Penn State's main University Park campus is searching for a new Assistant Professor who uses genetic, biochemical, and/or cell biological approaches to the study of eubacterial and/or archaeal physiology. Candidates investigating aspects of development in prokaryotes are also encouraged to apply.

The Department of Biochemistry & Molecular Biology, together with the neighboring Biology and Veterinary Science Departments, offers a highly interactive environment with active groups studying aspects of microbial biology; signal transduction, molecular immunology and virology; transcription, chromatin, and gene regulation; cell and developmental biology in various model systems; and protein structure, function, and biophysics. For faculty research interests, see www.bmb.psu.edu/deptpage/faculty/default.htm. The Department has an excellent research environment augmented by shared technology facilities, and provides competitive startup packages. State College offers a university town atmosphere with proximity to major East Coast metropolitan centers. Applications will be accepted immediately, and interviews will be scheduled for early 2000. We hope to have the successful candidate join us in the Summer of 2000.

Applicants should send a curriculum vitae and a short summary of research plans to the address below. Applicants should also have three letters of reference sent in support of the application.

Microbial Physiology Search Committee
108 Althouse Laboratory, Box 234S
Department of Biochemistry and Molecular Biology
The Pennsylvania State University
University Park, PA 16802

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



Center of Marine Biotechnology University of Maryland Biotechnology Institute

TENURE-TRACK FACULTY POSITION PROKARYOTIC MOLECULAR BIOLOGY

The Center of Marine Biotechnology (COMB), University of Maryland Biotechnology Institute (UMBI), invites applications for a tenure-track faculty position at the Assistant Professor level. The successful candidate will develop an independent research program in molecular microbial physiology OR molecular microbial ecology, with emphasis on marine and estuarine systems. Familiarity and experience with functional genomic research will be an advantage. Applicants must have a Ph.D. with at least two years of relevant experience. This is primarily a research appointment, although the Center has a strong graduate student training record.

The Center of Marine Biotechnology is an integrated research community committed to studying, protecting and enhancing marine resources through the application of molecular biology and molecular genetics. COMB offers unique and excellent facilities including BSL3 laboratory and well equipped core facilities, and is situated in Baltimore's Inner Harbor area (see <http://www.umbi.umd.edu/~comb/welcome/welcome.html>). Faculty have interactions with other University of Maryland and Johns Hopkins University departments, as well as biotechnology corporations. To apply, send a Curriculum vitae, statement of research interests, and the names and contact information of three references to:

Chair, Prokaryotic Molecular Biology Search Committee
Center of Marine Biotechnology
University of Maryland Biotechnology Institute
701 E. Pratt St.
Baltimore, MD 21202
USA

For best consideration, material should be received by December 15, 1999; however, applications will be considered after this date until the position is filled. *The University of Maryland Biotechnology Institute is an Equal Opportunity Employer and strongly encourages all qualified applicants.*

NEUROMED TECHNOLOGIES INC.

Director - Ion Channel Research

NeuroMed Technologies Inc. is recruiting for the position of Director, Ion Channel Research. The successful candidate will be responsible for directing internal discovery research and preclinical programs aimed at the development of small organic molecules that target ion channels/receptors relevant to human neurological disorders. The position will also require the candidate to coordinate external scientific collaborations.

NeuroMed is a biopharmaceutical company located in Vancouver, British Columbia, founded by Dr. Terrance P. Snutch. NeuroMed's core programs involve rational drug design, medicinal and combinatorial chemistry, ion channel cloning and expression, medium and high throughput screening and animal models for neurological and cardiac disorders.

Qualified candidates will have a PhD and relevant industry experience in the areas of ion channel physiology, pharmacology and structure/function. A proven record regarding drug discovery programs, preclinical and/or clinical development of pharmaceutical agents in the CNS and cardiovascular systems, and cellular-based screening is considered an asset. The candidate will have the opportunity to direct the expansion of the ion channel team. The successful candidate will be expected to have excellent oral and written communication skills and leadership qualities.

Letters of interest together with a CV and the names of three references should be submitted to:

Rachel Kelly
Corporate Administrator
NeuroMed Technologies Inc.
3250 East Mall
Vancouver, BC V6T 1W5 Canada
Facsimile 604-822-0065
info@neuromedtech.com
www.neuromedtech.com

POSITIONS OPEN

FACULTY POSITION Kansas State University

The Department of Anatomy and Physiology in the College of Veterinary Medicine invites applications for a 12-month, tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR** position beginning July 1, 2000. We seek an individual who will complement the research strengths within the department and college. Active NIH- and United States Department of Agriculture-funded programs in the department are focused on cell and molecular physiology, neuroscience, cardiovascular and respiratory physiology, molecular pharmacology, and immunophysiology ([website: www.vet.ksu.edu/depts/ap](http://www.vet.ksu.edu/depts/ap)). The teaching component of the position involves contributing to a team-taught pharmacology course in the D.V.M. curriculum, and graduate studies. Applicants for an Associate Professor rank must have an outstanding record of productivity. D.V.M. and/or Ph.D. or equivalent are required. Applicants should submit curriculum vitae, selected reprints, statement of research and instructional interests, and have three letters of reference sent to: **Frank Blecha, c/o BJ Thompson, Department of Anatomy and Physiology, Kansas State University, VMS 228, 1600 Denison Avenue, Manhattan, KS 66506-5602.** Review of applications will begin on December 15, 1999, and continue until the position is filled. *Kansas State University is an Equal Opportunity Employer and actively seeks diversity among its employees.*

FACULTY POSITION

University of Arkansas for Medical Sciences Department of Pharmacology and Toxicology

The Division of Toxicology is recruiting a full-time, tenure-track faculty member at the **ASSISTANT PROFESSOR** level. Candidates should have a Ph.D. or equivalent degree, postdoctoral training, evidence of research productivity, and a commitment to quality teaching of graduate and medical students. Applicants must have the potential to obtain extramural research funding. Individuals with a background in toxicology who are working in molecular mechanisms of toxicology and/or aging are especially encouraged to apply. Excellent opportunities are available for collaborative research with other faculty in the Department of Pharmacology and Toxicology as well as other departments at the University of Arkansas for Medical Sciences, and with adjunct faculty at the nearby National Center for Toxicological Research. An excellent start-up package with laboratory space in our recently-constructed Biomedical Research Building is available. Candidates should send curriculum vitae, a brief prospectus, and the names of three references to: **Jack A. Hinson, Ph.D., Division of Toxicology, University of Arkansas for Medical Sciences, 4301 West Markham Street, Slot 638, Little Rock, AR 72205.** The review of applications will begin on January 3, 2000. Our Internet [website: http://www.UAMS.edu/pharmtox/pharmtox.htm](http://www.UAMS.edu/pharmtox/pharmtox.htm). *UAMS is an Equal Opportunity Employer.*

ECOSYSTEMS ECOLOGIST

Princeton University invites applications for a **SENIOR FACULTY POSITION** in the Department of Ecology and Evolutionary Biology and the Princeton Environmental Institute. Priority will be given to candidates whose research links ecosystem processes with community dynamics or addresses regional or global biogeochemical issues. Applicants should have a strong commitment to teaching and a well-developed conceptual basis for their research. Teaching will include participating in the Environmental Studies Program's undergraduate core courses and the Department's ecology course offerings. A recent curriculum vitae, a statement of research interests, three reprints and names and addresses of three referees should be sent to: **Dr. Daniel I. Rubenstein, Department of Ecology and Evolutionary Biology, Guyot Hall, Princeton University, Princeton, NJ 08544-1003.** Screening of applications will begin 15 January 2000. *Princeton University is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITIONS BIOCHEMICAL GENETICS DIVISION OF PEDIATRIC GENETICS

The Division of Pediatric Genetics is soliciting biochemical geneticists to apply for a faculty position with clinical biochemical genetic and research responsibilities. Applicants should have either an M.D. or M.D./Ph.D. degrees, and demonstrated clinical and research expertise in the biochemical genetics of human disease. We are recruiting two tenure-track faculty with a particular emphasis in identifying individuals qualified to direct a biochemical screening laboratory. Research interests may involve broad areas of human genetic research including (but not limited to) functional genomics, organelle biogenesis, and gene therapy. Applicants should be certified or eligible for certification in biochemical genetics by the American Board of Medical Genetics. Positions will be filled by investigators at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** of Pediatrics level depending on qualifications. Interested applicants should send curriculum vitae, a short statement of research plans, and the names of three references to: **Chair, Division of Pediatric Genetics Search Committee, Department of Pediatrics, 3570 MSRBII, Box 0688, The University of Michigan, Ann Arbor, MI 48109-0688.** *The University of Michigan is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

FACULTY POSITION BIOINFORMATICS

The Kansas State University Department of Plant Pathology seeks applicants for an **ASSISTANT PROFESSOR**: 80 percent research, 20 percent teaching. Candidate will be expected to establish a strong, extramurally funded research program in plant or microbial genomics with an emphasis on bioinformatics; develop and teach a course in bioinformatic analysis; participate in interdepartmental and inter-university collaborative research including management and analysis of our cereal gene expression databases; advise graduate students. Qualifications: Ph.D. with research experience in bioinformatics and molecular biology and demonstrated excellence in research. Relevant postdoctoral experience preferred. Twelve-month position, available August 1, 2000. Send application, including transcripts, résumé, copies of relevant publications, and a summary of research interests, and have three letters of reference sent to: **Scot Hulbert, Department of Plant Pathology, Throckmorton Hall, Kansas State University, Manhattan, KS 66506-5502.** E-mail: shulbrt@plantpath.ksu.edu. See also [website: http://www.ksu.edu/plantpath](http://www.ksu.edu/plantpath). Applications will be reviewed beginning February 15, 2000. *Kansas State University is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITIONS, CANCER GENETICS—Fox Chase Cancer Center ([website: www.fccc.edu](http://www.fccc.edu)), a National Cancer Institute-designated Comprehensive Cancer Center, has immediate openings for outstanding investigators to fill several **ASSISTANT or ASSOCIATE PROFESSOR**-level positions in Human Cancer Genetics, a targeted area of growth at this institution. Successful candidates will join a group of nine current members of the Human Genetics Program. We are particularly interested in laboratory investigators with expertise in DNA microarray analysis, genetic epidemiology, complex trait analysis, or mouse models of human cancer. We also seek board-certified/eligible clinical geneticists with experience in cancer genetics. New faculty receive a generous start-up package including funds for equipment, technical assistance and operating expenses, and laboratory space in a new research building that will be ready for occupancy in early 2000. Interested candidates should send a curriculum vitae, summary of research interests and two letters of reference to: **Dr. Joseph R. Testa, Director, Human Genetics Program, c/o Human Resources, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111.** E-mail: JR_Testa@fccc.edu. *Equal Opportunity.*

POSITIONS OPEN

Two tenure-track faculty positions at the **ASSISTANT/ASSOCIATE PROFESSOR** level are available for M.D., M.D./Ph.D., or Ph.D. candidates in the Department of Pathology and Anatomy of Eastern Virginia Medical School to begin July 1, 2000.

MOLECULAR/CELLULAR NEUROBIOLOGIST: The Anatomy Division seeks a neurobiologist or neuropathologist who utilizes molecular and cellular techniques. Broad areas of interest include, but are not limited to, gene regulation and signal transduction in neurons; developmental neurobiology; molecular structure and function of synapses; development and function of sensory, motor, and preganglionic neurons; neuronal apoptosis; neural stem cells; neurodegenerative diseases; and neural pathways involved in sleep, stress, or emotion. Neuroscience and aging is one of four focus areas targeted for growth at Eastern Virginia Medical School. Candidates must have a strong record of research, training, and accomplishment, including postdoctoral training, and have research capable of attracting significant extramural funding. Teaching in medical anatomy or neuroscience course is essential. Please send curriculum vitae, statement of research interests, names, addresses, telephone numbers and e-mail addresses of three references to:

**Earl Godfrey, Ph.D.
Vice Chair, Anatomy Division
Department of Pathology and Anatomy
Eastern Virginia Medical School
P.O. Box 1980
Norfolk, VA 23501**

ASSISTANT PROFESSOR PHARMACOLOGY University of Washington Seattle, Washington

Applications are invited for a tenure-track appointment at the rank of Assistant Professor in the Department of Pharmacology at the University of Washington School of Medicine. A Ph.D. or M.D. degree and at least two years of postdoctoral research experience are required. All areas of pharmacology will be considered, but individuals integrating molecular, genetic, and physiological approaches are especially encouraged to apply in order to complement the current strength of the Department in signal transduction. The successful candidate will be expected to develop an outstanding independent research program, teach in graduate, medical, or other health profession courses, and participate in graduate student training in the Department of Pharmacology. Additional information about the Department and its current research interests may be obtained at [website: http://depts.washington.edu/phcol](http://depts.washington.edu/phcol). Review of applications will begin in early December. Please submit a curriculum vitae and statement of research interests, and arrange for three letters of recommendation to be sent to: **G. Stanley McKnight, Ph.D., Chair, Pharmacology Search Committee, Department of Pharmacology, University of Washington, Box 357750, Seattle, WA 98195-7750.** *The University of Washington is building a culturally diverse faculty and strongly encourages applications from female and minority candidates. The University is an Equal Opportunity/Affirmative Action Employer.*

A **POSTDOCTORAL POSITION** is available at Columbia University in the laboratory of **Dr. Raphael Clynes** in the Departments of Medicine and Microbiology. The laboratory is interested in immunobiology with current projects in Fc receptor-mediated effector responses in animal models of autoimmunity and tumor immunity. A background in cellular and molecular immunology is preferred. Interested candidates should send a curriculum vitae and references to: **Dr. Raphael Clynes, P and S Building 8-510, 630 West 168th Street, New York, NY 10032; FAX: 212-305-1392; e-mail: rc645@columbia.edu.** *Columbia University is an Equal Opportunity Employer.*

Aab Institute of Biomedical Sciences

at the University of Rochester Medical Center

Tenure-track Assistant and Associate Professors

The University of Rochester School of Medicine and Dentistry announces the opening of the multi-center Aab Institute for Biomedical Sciences in the newly constructed Arthur Kornberg Medical Research Building. We are now recruiting tenure-track assistant and associate professors with proven abilities in research. Generous start-up packages will be provided. Investigators will have dual appointments in a Center and in a department of the Medical School.

The Center for Aging and Developmental Biology is recruiting 4-6 faculty members with interest in diverse experimental organisms to study problems in neurogenesis, differentiation, cell death, synaptic specification, behavioral development, critical periods and normal changes in neural organization and function that accompany senescence. The Center will build upon existing programs in toxicological, and cognitive neurosciences at the University of Rochester with the long term goal of developing effective therapies for neurological dysfunction associated both with disease and normative aging.

Howard J. Federoff, M.D., Ph.D. Director, Howard_Federoff@urmc.rochester.edu

The Center for Cancer Biology will constitute a significant extension to the existing NCI-designated Cancer Center and is searching for six additional faculty members. The Center will have a strongly interactive environment and will focus on basic research in molecular cell biology with an emphasis on cell signaling. Areas of interest include, but are not limited to: cell cycle, apoptosis, signal transduction, gene expression, intercellular communication, cell adhesion and migration, angiogenesis and metastasis. Work with genetically tractable model organisms is encouraged.

Dr. Hartmut Land, Director, Land@urmc.rochester.edu

The Center for Cardiovascular Research is searching for two assistant, associate or full professors to build upon existing programs in cardiology, genetics, pharmacology, physiology, tissue engineering, and microcirculation. Research programs include analysis of signal transduction in the vasculature, molecular genetic approaches to disease, integrative physiology with transgenic animals, and gene transfer technology to study disease pathogenesis.

Bradford C. Berk, M.D., Ph.D., Director, Bradford_Berk@urmc.rochester.edu

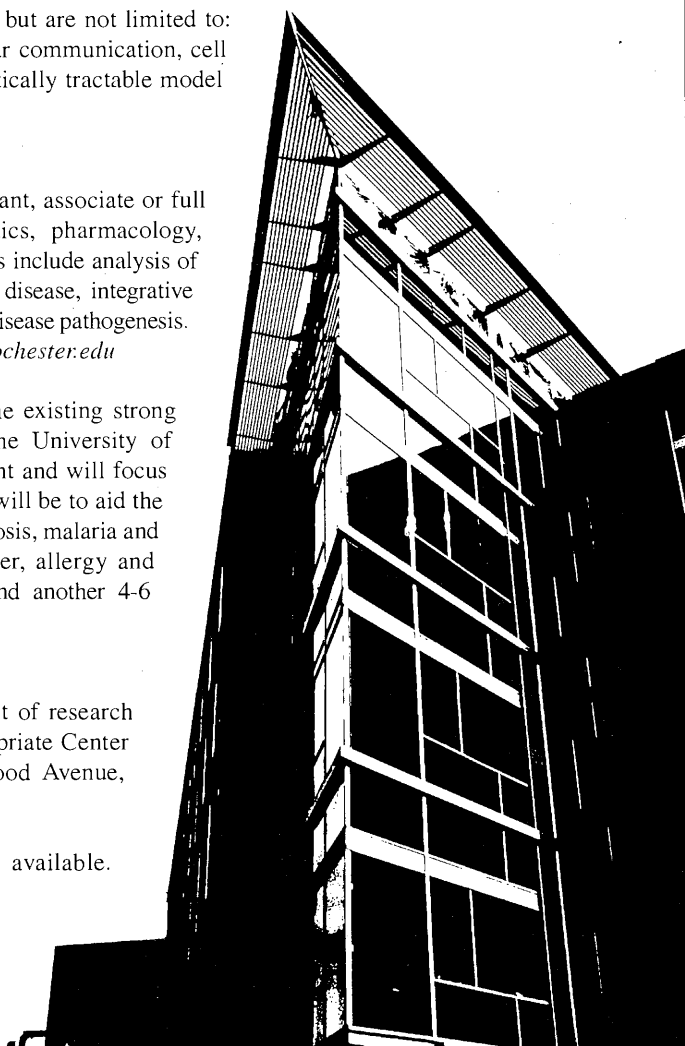
The Center for Vaccine Biology and Immunology will build on the existing strong programs in Immunology, Microbiology and Vaccine Biology at the University of Rochester. The new Center will have a strongly interactive environment and will focus on basic research into immunological mechanisms. Its long-term goal will be to aid the design of new vaccines for 'difficult' infectious diseases such as tuberculosis, malaria and AIDS, as well as to create new types of vaccines for treating cancer, allergy and autoimmunity. Five investigators have been recruited to the Center and another 4-6 members are being sought.

Dr. Tim Mosmann, Director, Tim_Mosmann@urmc.rochester.edu

Applications: Applicants should send a curriculum vitae, a statement of research interests, and the names of three referees to the attention of the appropriate Center Director at: The Aab Institute of Biomedical Sciences, 601 Elmwood Avenue, Rochester, NY 14642

Post-doctoral positions with members of the faculty are also available. Applications should be sent to the investigators. See our web site at:

www.urmc.rochester.edu/Aab/



POSITIONS OPEN

CHAIR, DEPARTMENT OF CHEMISTRY

The Department of Chemistry at the University of Nebraska-Lincoln ([website: www.chem.unl.edu](http://www.chem.unl.edu)) invites applications and nominations for Department Chair. This Department is of special importance within the Nebraska educational system because it has the only Ph.D. chemistry program in the state and is regarded as a premier center within the University, with its special strengths in biophysical chemistry, mass spectrometry, organic chemistry, and materials chemistry. In addition, many faculty members are key participants in one or more interdisciplinary programs that include biotechnology, cancer research, materials science, and toxicology. The University recognizes the Department as a fundamental contributor to many of its highest-priority initiatives, and is committed to its excellence. The Department is housed in a 220,000-square-foot building, which is undergoing a major renovation, and has excellent instrumentation facilities. The faculty is committed to enhancing the status of the Chemistry Department as an outstanding regional program, with national prominence and international recognition in several areas. The role of the new chair is to provide academic and administrative leadership as the Department strives to achieve these goals. The ideal candidate will have demonstrated outstanding achievement in research and teaching, and will show promise for excellence in administration. The position is available July 1, 2000, or thereafter. Applications and nominations should be sent to: **Chemistry Chair Search Committee, 1223 Oldfather Hall, University of Nebraska-Lincoln, Lincoln, NE 68588-0312. FAX: 402-472-1123; e-mail: chemsearch@unl.edu.** The highest levels of confidentiality will be maintained in all correspondence. Applications should include a curriculum vitae and a letter indicating the applicant's interest in the position. Although the Search Committee will begin reviewing applications on January 31, 2000, it will continue to accept applications until the position is filled. *The University of Nebraska-Lincoln is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity and is responsive to the needs of dual career couples. We assure reasonable accommodation under the Americans with Disabilities Act; contact Amy Dodson, Telephone: 402-472-6262 for assistance.*

NEUROPHYSIOLOGY/NEUROSCIENCE

YORK UNIVERSITY. Faculty of Pure and Applied Science. Kinesiology and Health Science. Applications are invited for a tenure-track appointment at the **ASSISTANT PROFESSOR** level in neurophysiology/neuroscience with an emphasis on some aspect of physical activity, behaviour and health. A research program utilizing molecular approaches will be a definite asset. Duties include teaching undergraduate and graduate courses and supervising graduate students. A Ph.D. and a publication record in refereed journals are required, as well as the ability to develop a research programme supported by external funding. Postdoctoral experience preferred. Applicants should send a curriculum vitae, a covering letter stating future research goals, relevant reprints, and the names, addresses and telephone numbers of at least three individuals who may act as references by 15 January, 2000, to: **Dr. E. Cafarelli, Kinesiology and Health Science, York University, Toronto, Ontario M3J 1P3. (e-mail: ecaf@yorku.ca)** Duties commence July 1, 2000. The position is subject to budgetary approval. Further information can be obtained at [website: www.yorku.ca/dept/physed](http://www.yorku.ca/dept/physed). *York University has a policy of employment equity, including affirmative action for women faculty. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.*

ANIMAL PHYSIOLOGIST

ASSISTANT PROFESSOR, area of emphasis open. Browse for details on vacancy, school, and community at [website: http://www.fhsu.edu/biology/vacancies/htm](http://www.fhsu.edu/biology/vacancies/htm). **Biology Department, Fort Hays State University, 600 Park, Hays, KS 67601. Telephone: 785-628-4214; FAX: 785-628-4153.** Screening commences 4 January 2000. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

PENNSTATE



ASSISTANT PROFESSOR OF BIOLOGY

The Commonwealth College invites applications for tenure-track Assistant Professors of Biology for its Delaware County, DuBois, and Worthington Scranton campuses. Starting Date: August 2000, or as negotiated. Descriptions of the positions, the campuses, and the college are available at [website: http://www.cwc.psu.edu](http://www.cwc.psu.edu). To apply: Please submit a cover letter, résumé, the names, addresses, telephone numbers, and e-mails (if available) of three references to:

**Commonwealth College Faculty Searches
The Pennsylvania State University
111 Old Main, Box SCI
University Park, PA 16802**

Please make reference in your cover letter as to the journal/magazine in which you saw this announcement. Applications will be accepted until the positions are filled. *Penn State is committed to Affirmative Action, Equal Opportunity and the diversity of its workforce.*

The Biology Department at Westminster College, New Wilmington, Pennsylvania, invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in Comparative Physiology starting fall 2000. Teaching responsibilities include anatomy and physiology, introductory biology, and a field course in their area of specialty, and participation in the College's liberal studies curriculum. Additional courses may include evolution, physiology, or cell biology. The successful candidate will also be expected to direct undergraduate student research. Candidates must have a Ph.D., be competent in experimental design, statistics, molecular biology techniques, and be committed to excellent teaching in a liberal arts environment.

Westminster College is a coeducational, liberal arts institution with historical ties to the Presbyterian Church. With a full-time undergraduate enrollment of 1,400 students and 100 full-time faculty, the College is located in a beautiful rural setting in close proximity to both Pittsburgh and Cleveland. The Biology Department is housed in a modern science building with excellent teaching, research, and computing facilities. Outdoor facilities include a 40-acre Field Station, 60-acre College Woods, and a 20-acre man-made lake within walking distance of the campus.

To apply, send a letter indicating teaching philosophy and experience, research interests, and a curriculum vitae. Also arrange to have three letters of recommendation sent by January 14, 2000, to: **Dr. Monika A. Becker, Department of Biology, Westminster College, New Wilmington, PA 16172.** *Equal Opportunity Employer.*

ASSISTANT PROFESSOR MOLECULAR BIOLOGY Mills College

The Department of Biology seeks applicants for a tenure-track position in biology beginning August 2000. Teaching responsibilities include portions of General Biology, Microbiology, and other upper-division courses such as Immunology or Virology. Ph.D. and a strong commitment to teaching undergraduates are required. Applicant is expected to maintain an active research program involving undergraduates. Send a letter describing teaching experience and philosophy, research interests, curriculum vitae, copies of representative publications, and names of three references to: **Bruce M. Pavlik, Chair, Molecular Biology Search Committee, Mills College, Oakland, CA 94613.** Application deadline is January 15, 2000. Located in the San Francisco Bay Area, Mills College is a selective liberal arts college for women with coeducational graduate programs. [Website: http://www.mills.edu](http://www.mills.edu). *Persons of color and those committed to working in a multicultural environment are encouraged to apply. Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITION IN FOOD ALLERGY

The Department of Food Science and Human Nutrition (FSHN) and the National Food Safety and Toxicology Center (NFSTC), Michigan State University (MSU) is seeking to fill a **FULL-TIME, TENURE TRACK ASSISTANT PROFESSOR** to initiate and conduct research on food allergens. This successful candidate will initiate a Food Allergy program and will collaborate with existing FSHN and NFSTC faculty who have expertise in food proteins, hypersensitivity, inflammatory cell trafficking, cytokines/chemokines, asthma and immunotoxicology. Suitable areas of research include identification/detection of food allergens, molecular basis for food allergenicity, development of animal models for food allergenicity, and development of hypoallergenic foods and food ingredients. The individual will also assist in establishing collaborations with clinical immunologists and to facilitate the development of a human component to the research program. The successful candidate will participate in the training of graduate students and postdoctoral fellows in Food Allergy as well as teach in the Food Safety area. This academic appointment will be in FSHN ([website: http://www.msu.edu/unit/fshn](http://www.msu.edu/unit/fshn)), which has instructional programs in Food Science, Nutrition, and Dietetics. NFSTC [website: http://foodsafety.msu.edu](http://foodsafety.msu.edu) is a research unit that houses faculty of several basic and applied sciences departments on campus including the Departments of FSHN, Pathology, Microbiology, Pharmacology and Toxicology as well as Epidemiology. A Ph.D. in Immunology, Microbiology, Food Science or other relevant area with postdoctoral experience in the immunology of food allergens is desirable. Applicants should provide a letter describing research interests, curriculum vitae, three letters of reference, and representative reprints of publications. Inquiries and applications should be directed to: **Dr. James Pestka, Chair, Food Allergy Search Committee, Department of Food Science and Human Nutrition, Michigan State University, East Lansing, MI 48824. Telephone: 517-353-1709; FAX: 517-353-8963; e-mail: pestka@pilot.msu.edu.** Review of applicants will begin on February 15, 2000, and continue until a suitable candidate is found.

MOLECULAR GENETICS POSITION Department of Biology Southwest Texas State University

The Department of Biology invites applications for a tenure-track **ASSISTANT PROFESSOR** effective 1 September 2000. We seek an individual with research interests in molecular genetics (prokaryotic or eukaryotic) who can contribute to the enhancement of our program in aquatic biology. The successful applicant will develop a vigorous, externally funded research program involving undergraduate and M.S. level students. A Ph.D. is required and postdoctoral experience is desired. Teaching responsibilities include the department's general genetics (for majors) and an upper-division/graduate course in the candidate's area of expertise. Applicants should submit a curriculum vitae, copies of up to five publications, statements of teaching and research philosophies, copies of transcripts, and a list of three references including telephone numbers and e-mail addresses to: **Francis L. Rose, Chair, (position applied for) Biology Department, Southwest Texas State University, San Marcos, TX 78666.** The Biology Department consists of 33 faculty, 100 graduate students, and 1400 undergraduate majors. Southwest Texas State University, a state university with 21,700 students, is located at the headwaters of the San Marcos River between Austin and San Antonio. More can be learned about the department at [website: http://www.bio.swt.edu](http://www.bio.swt.edu). Review of applications begins on January 1, 2000 and will continue until a suitable candidate is found. *Southwest Texas State University is an Affirmative Action/Equal Opportunity Employer, and is committed to increasing the number of women and minorities in faculty and administrative positions.*

Scientists Wanted

- Biochemistry
- Biotechnology
- Cell Biology
- Chemistry
- Genetics
- Immunology
- Medical Services
- Microbiology
- Molecular Biology
- Neuroscience
- Pharmacology
- And other fields...

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sciencecareers.org
and drop off
your resume
to be included in
**Science's new
Resume/CV
Database**

Science
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UNIVERSITY OF MICHIGAN MEDICAL SCHOOL

Mental Health Research Institute
and Department of Biological Chemistry

NEUROBIOLOGIST / MOLECULAR GENETICIST

The Mental Health Research Institute and The Department of Biological Chemistry of the University of Michigan are seeking candidates for a tenure-track position focusing on Neurobiology and Molecular Genetics. Candidates will be jointly appointed in the Department and Institute as Assistant Professor/Assistant Research Scientist. Applications from more senior investigators are also encouraged and will be considered for the appropriate ranks. The appointee will be expected to develop an independent research program using state of the art molecular genetic tools in mice or other species in order to elucidate critical neuronal functions. Investigators interested in the molecular basis of learning and memory are especially encouraged to apply. Applicants should provide a brief statement of research interests and future plans, a curriculum vitae with bibliography, and three letters of support. Send applications to: Dr. Audrey Seasholtz, Chair, Neurobiology and Molecular Genetics Search Committee, Mental Health Research Institute, University of Michigan, 205 Zina Pitcher Place, Ann Arbor, MI 48109-0720. Deadline: February 1, 2000. *The University of Michigan is an equal opportunity/affirmative action employer and specifically encourages applications from qualified women and minorities.*



EPILEPSY FOUNDATION

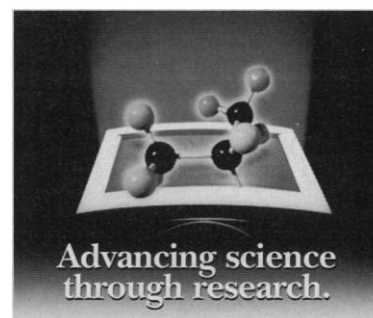
ANNOUNCEMENT OF NEW RESEARCH GRANTS PROGRAM IN GENETICS

The Epilepsy Foundation is pleased to introduce a new research program directed toward improving understanding of the genetics of seizure disorders and identifying genetic therapeutic approaches leading to development of potential cures.

Inquiries are invited from established investigators (academic rank of Assistant Professor or higher) at academic institutions within the United States. The deadline for submission of preliminary proposals is **January 17, 2000**. Funding of projects is to commence on July 1, 2000.

For further information, including guidelines for submission of preliminary proposals, contact:

Epilepsy Foundation
Targeted Research Program
4351 Garden City Drive
Landover, MD 20785-2267
phone: (301) 459-3700
fax: (301) 577-2684
e-mail: grants@efa.org



Never have your own unique talents been of such critical importance than at Parke-Davis Pharmaceutical Research, a Division of Warner-Lambert Company. We are devoted to discovering, developing, manufacturing and marketing quality pharmaceutical products. This can only be achieved through the work of the finest scientific talent and dedication. If you have an interest in using your skills to do a world of good, consider one of the following opportunities available immediately in ANN ARBOR, MI:

PHARMACOLOGY Associate Scientist/ Sr. Assistant Scientist Job Code: HS/99-1683SC

In this critical role, you will develop and perform in vivo pharmacology studies to evaluate the efficacy of new cardiovascular therapies. This involves dosing, performing various surgical procedures, obtaining and summarizing data, and preparing reports.

The Associate Scientist level needs a Bachelor's degree with 3-5 years of research experience or a Masters degree with 2-3 years of research experience. For the Senior Assistant Scientist level, you must have a Bachelor's degree with 2-3 years of research experience. Experience using data acquisition systems and a working knowledge of cardiovascular physiology is helpful. Good computer, oral/written and organization skills are essential, as well as the ability to work independently.

We offer competitive salaries, outstanding benefits, and an environment that's conducive to professional growth. We have the above opportunities in ANN ARBOR, MI. For confidential consideration, please forward your resume indicating JOB CODE, to: Parke-Davis, Warner-Lambert Processing Center, P.O. Box 549231-Suite 24, Waltham, MA 02454-9231. Fax: 877-663-2497 (Toll-free). Equal opportunity in action. Smoke-free work environment.

To apply, visit us on-line at
www.warner-lambert.com



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POSITIONS OPEN

CLINICAL CHEMISTRY: Cleveland State University, in association with The Cleveland Clinic Foundation, invites applications for a tenure-track faculty position at the level of **ASSISTANT PROFESSOR** in Clinical Chemistry starting August 21, 2000. The Department of Chemistry offers Bachelor's, Master's and Ph.D. degrees; the latter is jointly administered with The Cleveland Clinic. The Clinical Chemistry program at Cleveland State/Cleveland Clinic is one of only two Commission on Accreditation in Clinical Chemistry-accredited doctoral programs in the United States. The applicant must have a Ph.D. in clinical chemistry, biochemistry, chemistry, molecular biology, or related field; and be board-certified or eligible for board certification in Clinical Chemistry by the American Board of Clinical Chemistry. The successful applicant will be expected to develop a nationally-competitive research program in a biomedically-related area. All research specialties will be considered, however, expertise in molecular diagnostics, pharmacogenetics, or immunochemistry is especially desired. Additionally, the position requires teaching undergraduate chemistry courses and graduate courses in the Clinical Chemistry program. Preference will be given to individuals with postdoctoral experience and to research and teaching areas that complement departmental expertise. Review of applications will begin on January 10, 2000, and will continue until the position is filled. Send a curriculum vitae, a description of research plans, a statement of teaching experience and/or interests, copies of undergraduate and graduate transcripts, and arrange three letters of recommendation to be sent to: **Dr. David Anderson, Chair, Clinical Chemistry Search Committee, Department of Chemistry, Cleveland State University, Cleveland, OH 44115; Telephone: 216-687-2453; FAX: 216-687-9298; e-mail: d.anderson@popmail.csuohio.edu.** *Cleveland State University is an Affirmative Action/Equal Opportunity Employer committed to nondiscrimination. Minorities/Females/Disabled/Veterans encouraged.*

CHAIR, DEPARTMENT OF DERMATOLOGY

The University of Pittsburgh School of Medicine seeks candidates for the Chair, Department of Dermatology. The Department includes 13 full-time faculty members, as well as research faculty members and volunteer faculty. Candidates must have an outstanding record of performance in academic dermatology, and demonstrated leadership abilities to direct major clinical, research, and training programs. In particular, the School seeks to develop an outstanding research effort to complement its superb clinical and teaching programs. Nominations and/or letters of interest from prospective candidates will be accepted until February 1, 2000, and should include current curriculum vitae. Address correspondence to: **Chair of the Dermatology Search Committee, Mark L. Zeidel, M.D., Chair, Department of Medicine, University of Pittsburgh School of Medicine, Room 1218 Scaife Hall, 3550 Terrace Street, Pittsburgh, PA 15261.**

FACULTY POSITION EXPERIMENTAL PHYSICS Rice University

The Physics Department at Rice University seeks applicants for a tenure-track **ASSISTANT PROFESSOR** position in experimental atomic, molecular, optical, or nanoscale condensed-matter physics. Applicants should send a dossier that includes a curriculum vitae, a statement of research and teaching interests, a list of publications, and two or three selected reprints/preprints. Applicants should also arrange for three letters of reference to be sent to: **R. G. Hulet, Chair, Faculty Search Committee, Physics Department-MS 61, Rice University, Houston, TX 77251-1892.** The appointment is available July 2000 and the review of applicants will begin December 1999. *Rice University is an Affirmative Action/Equal Opportunity Employer; women and underrepresented minorities are encouraged to apply.*

POSITIONS OPEN

BIOLOGY FACULTY POSITIONS TENURE TRACK

Furman University seeks three **ASSISTANT PROFESSORS** to replace retiring faculty.

Plant Ecologist conducting research at the ecosystem or landscape level. Teaching responsibilities will include general ecology and plant physiology. Priority will be given to applicants who will take a leading role in our interdisciplinary environmental programs.

Molecular Physiologist working with mammalian systems. Teaching responsibilities will include human physiology and molecular biology. Preference will be given to candidates who can contribute to courses in animal nutrition, animal physiology, or genetics.

Molecular Geneticist working with microbial systems. Teaching responsibilities will include general genetics, molecular genetics, and microbiology.

Successful candidates for the physiology and genetics positions will be expected to work cooperatively with each other and with existing faculty in strengthening the molecular component of the department's research and teaching programs.

All faculty are expected to teach introductory biology and upper-level courses in their specialties. Candidates must have the Ph.D., evidence of interest and excellence in teaching, and a commitment to involving undergraduate students in an active research program. Furman is a selective, independent liberal arts school of 2,500 students, with a strong emphasis on engaged learning and undergraduate research. Start-up funds will be available. For further information, see website: <http://www.furman.edu/academics/biology/jobs/>. Submit curriculum vitae, statement of teaching credentials and philosophy, description of research interests, unofficial transcripts, and three letters of recommendation to: **Search Committee, Department of Biology, Furman University, 3300 Poinsett Highway, Greenville, SC 29613.** Review of applications is underway. For full consideration, apply by December 31, 1999. Employment will begin no later than September 2000.

The University and the Department have a strong commitment to achieving diversity among faculty and staff. We strongly encourage women and people from diverse racial, ethnic, and cultural backgrounds to apply. Equal Opportunity/Affirmative Action Employer.

MOLECULAR EVOLUTION

The Department of Biological Sciences, Mississippi State University, invites applications for a nine-month, tenure-track **ASSISTANT PROFESSOR** position, beginning August 16, 2000. We are seeking a broadly trained individual who uses molecular techniques to study evolutionary mechanisms. Preference will be given to applicants studying evolutionary developmental biology. Qualifications include a completed Ph.D., an established record of research productivity, and postdoctoral experience. Teaching experience is desirable. The successful candidate is required to develop an externally funded research program and to direct graduate students. The application should include a curriculum vitae, a concise statement of research and teaching interests, and up to three reprints. The applicant should arrange for the submission of three letters of reference. Screening will begin December 3, 1999, and will continue until the position is filled. Applications should be sent to: **Dr. Michael J. Sullivan, Search Committee Chair, Department of Biological Sciences, P.O. Box 6Y, Mississippi State University, Mississippi State, MS 39762. Telephone: 662-325-7575, e-mail: sullivan@biology.msstate.edu.** *Mississippi State University is an Affirmative Action/Equal Opportunity Employer.*

The Department of Physics and Astronomy at Clemson University invites applications for two tenure-track positions, to begin in the academic year 2000-2001. Our expectation is that the positions will be filled at the **ASSISTANT PROFESSOR** level but the search is not restricted to such candidates. Further details about the positions may be obtained at the website: <http://physics.clemson.edu> or by e-mail: phys_job_search-L@clemson.edu.

POSITIONS OPEN

CELL BIOLOGIST

New College of the University of South Florida invites applications for a tenure-track position in cellular biology at the **ASSISTANT PROFESSOR** level for August 2000. We seek a broadly trained biologist committed to excellence in teaching and research within the context of a highly selective undergraduate liberal arts college. Teaching load is two classes per semester, plus supervision of tutorials, independent study projects, and senior thesis. Primary teaching responsibility is in cellular biology and laboratory, with additional contributions at the introductory and advanced levels. An interest in contributing to science education for non-science majors is also expected. We particularly encourage candidates who use marine invertebrates in their teaching and research. Preferred areas of specialization include comparative or environmental physiology, developmental biology, cell structure, parasitology, integrative biology, or endocrinology. New College, situated on the Gulf Coast of Florida and Sarasota Bay, is a nationally recognized, public liberal arts honors college with an 11:1 student/faculty ratio. Undergraduate research is a vital component of the curriculum. We will move to a new science building this year, and a new marine facility will open in summer 2000. For additional information, see website: www.newcollege.usf.edu (no electronic applications please). Competitive start-up funds are available. A Ph.D. is required; postdoctoral and teaching experience are preferred. Send a curriculum vitae, three letters of reference, a statement of teaching philosophy, and a description of proposed research including how undergraduates would be involved, by January 31, 2000, to: **Sandra Gilchrist, Division of Natural Sciences, New College of the University of South Florida, Sarasota, FL 34243-2197.** *University of South Florida is an Equal Opportunity Employer/Affirmative Action/Americans with Disabilities Act Institution; women and minority candidates are encouraged to apply.*

ASSISTANT PROFESSOR, BOTANY University of Arkansas, Little Rock

The University of Arkansas at Little Rock invites applications for a tenure-track Assistant Professor position in plant molecular biology, plant development biology, plant physiology, or plant biotechnology to begin August 2000. Applicants should have appropriate postdoctoral experience and will be expected to conduct high-quality, funded research as well as contribute to our educational mission at the undergraduate and graduate level (M.S. and Ph.D.). Applicant should send a curriculum vitae, a statement of research interests and teaching philosophy, and three letters of references to: **Maurice Kleve, Search Committee Chair, Department of Biology, University of Arkansas at Little Rock, 2801 South University, Little Rock, AR 72204-1099. Telephone: 501-569-3510; e-mail: mgkleve@ualr.edu.** The position will remain open until filled; however, to receive full consideration, applications should be received by January 15, 2000. *The University of Arkansas at Little Rock is an Equal Opportunity/Affirmative Action Employer and actively seeks the candidacy of minorities, women and persons with disability. Under Arkansas law, all applications are subject to disclosure. Persons hired must have proof of legal authority to work in the United States.*

Two tenure-track **ASSISTANT PROFESSOR** positions, fall 2000: biochemistry (teach biochemistry and immunology) and biology with secondary education (teach education and manage biology teacher preparation programs). Both positions may include teaching basic introductory core courses and non-major courses. Requirements: Ph.D./Ed.D., demonstrated excellence in teaching, ability to teach general biology, advise students, and develop active research program with undergraduates. Send résumé, statement of teaching/research interests, and list of three references by January 21, 2000, to: **Human Resources Department, Fitchburg State College, 160 Pearl Street, Fitchburg, MA 01420.** *Affirmative Action/Equal Opportunity Employer.*

Society for Integrative and Comparative Biology Annual Meeting

January 4-8, 2000 ♦ Atlanta, Georgia



Co-Sponsors: Animal Behavior Society ♦ American Microscopical Society
Int'l Society for Invertebrate Reproduction and Development
Society for Vertebrate Paleontology ♦ The Crustacean Society

The 2000 Society for Integrative and Comparative Biology (SICB) Annual Meeting is an educational and research forum for scientists and students. The meeting will include 11 symposia; numerous workshops and special programs in addition to hundreds of contributed papers in divisional and interdivisional sessions.

Opening Address:

- The Genetic Gods: Evolution and Belief in Human Affairs - John C. Avise, University of Georgia

Symposium Topics:

- An Integrative Approach to the Studies of Terrestrial Plant-Animal Interactions
- Antarctic Marine Biology
- Beyond Reconstruction: Using Phylogenies to Test Hypotheses About Vertebrate Evolution
- Evolutionary Developmental Biology: Paradigms, Problems and Prospects
- HOX Clusters and the Evolution of Morphology
- Intermittent Locomotion: Integrating the Physiology, Biomechanics and Behavior of Repeated Activity
- New Approaches to Studies of Marine Plant-Animal Interactions
- Nitric Oxide in the Invertebrates: Comparative Physiology and Diverse Functions
- Osmoregulation: An Integrated Approach
- Recent Progress in Crustacean Endocrinology: A Symposium in Honor of Milton Fingerman
- Swimming in Opisthobranch Mollusks: Contributions to Control of Motor Behavior

SICB Business Office ♦ 401 N. Michigan Ave. ♦ Chicago, IL 60611 ♦ 312/527-6697 ♦ E-mail: sicb@sba.com

Visit <http://www.sicb.org> for more information and to register.

GOVERNORS STATE UNIVERSITY

PLANT COMMUNITY ECOLOGY

Governors State University invites applications and nominations for a tenure-track faculty position in Plant Community Ecology. Applicants should be broadly trained in biology with solid academic preparation in plant community ecology and research experience with terrestrial or wetland systems. Scholarly research and a strong commitment to educating a diverse student population are essential. An earned Ph.D. in Biology or sub-discipline is required by the Fall of 2000. Teaching responsibilities in the undergraduate Biology curriculum include courses in Evolution, Statistics, and Plant Taxonomy. Responsibilities in the graduate Environmental Biology curriculum include courses in Community Ecology and Experimental Design and supervision of graduate research. Responsibilities will also include teaching a service course for non-majors and/or an additional course appropriate to background. Familiarity with GIS is desirable. Review of applications will begin February 1, 2000 and continue until the position is filled. Applicants should send a letter of interest addressing qualifications, a curriculum vitae, the names, addresses, and telephone numbers of three references, all academic transcripts, and other supporting materials to:

Phyllis Klingensmith, Ph.D.
Biology Faculty Search Committee
Governors State University
University Park, IL 60466



UNIVERSITY PARK, IL 60466-0975

AA/E0E

Diagnostic SCIENTIST

At CUNO, research and development opens up new doors of opportunity for our scientists to develop their careers and grow with us. We are recognized as a world leader in design, manufacture and marketing of filtration products and technology. Now you can share in our growth. We have an advanced opportunity for a Diagnostic Scientist in the Scientific Services Laboratory at our Corporate Headquarters in MERIDEN, CT.

You will be responsible for serving as a technical resource for Customer Support, R&D and QA functions. You'll perform contemporary molecular biology techniques to support and develop products for diagnostic customers. You'll also train others to perform the techniques and present data effectively to internal and external customers.

To qualify, you must have hands-on laboratory experience with various membrane blotting techniques and other membrane-based diagnostic protocols. These would include a practical working knowledge of DNA detection systems used in Southern transfers involving both isotopic and non-isotopic hybridization and detection protocols. MS Molecular Biology with 5-7 years laboratory experience or Ph.D. Molecular Biology with at least 1 year experience required. You must also have strong interpersonal, presentation and problem solving skills. The ability to write timely and effective reports and standard operating procedures in the existing company format, as well as prepare articles suitable for publication in a recognized journal are essential. Experience with RNA (Northern), protein (Western) and other molecular biology detection and identification techniques is desired.

We offer a competitive salary and excellent benefits. Please send resume including salary requirements to: CUNO Incorporated, Human Resources Dept, Job Code DS, 400 Research Parkway, Meriden, CT 06450; Fax (203) 238-8983; E-mail cbennice@cuno.com Visit our website at www.cuno.com



Equal Opportunity Employer M/F/D/V

The National Institute of Nursing Research, Wound Healing Laboratory is currently investigating the underlying pathophysiology of delayed/non-healing wounds. The laboratory invites applications for the following:

Postdoctoral Position - The candidate should have a Ph.D. in nursing, biology, biochemistry or related field and must be within 2 years of their Ph.D. The candidate should have experience in several of the following areas: primary cell culture, signal transduction, matrix metalloproteinases/TIMPs, apoptosis and extracellular matrix/cell interactions. Experience in wound healing animal models is a plus.

Biological Laboratory Technician - The incumbent specializes in cell and molecular biological/biochemical techniques directed at defining the pathological basis of extracellular matrix degradation in delayed wound healing. Candidates should have a bachelors or masters degree in biology, biochemistry, cell and molecular biology or the equivalent in prior laboratory experience.

Further information about the positions and qualification requirements may be obtained by contacting Ms. Cherry Earl at (301) 402-2631. A detailed resume and three references should be submitted by December 31, 1999 to Ms. Cherry L. Earl, Personnel Management Specialist, National Institute of Nursing Research, 31 Center Drive, MSC 2178, Bethesda, MD 20892-2178. NIH IS AN EQUAL OPPORTUNITY EMPLOYER.

POSITIONS OPEN

ENVIRONMENTAL AND ATMOSPHERIC SCIENCES DEPARTMENT CHAIR

Creighton University announces the availability of a new position as Chair of its Environmental and Atmospheric Sciences (EVS/ATS) Department effective August 1, 2000. The Department, newly established through the merger of the existing ATS Department and EVS Program, offers ATS (B.S./M.S.) and EVS (B.S.) degrees at the graduate and undergraduate levels. The successful candidate will be hired at the Senior level, into a tenure-track position. The successful candidate will provide direction and leadership to the new Department, drawing from his/her accomplishments, experience, and/or demonstrated interest in the following: (1) Excellence in teaching at the undergraduate and graduate level; (2) Administration of multidisciplinary programs; (3) Senior-level research programs in applicable areas of Geographical Information Systems (GIS) and/or environmental remote sensing using earth resources satellite data analysis and interpretation. Similar research activities in hydrology and/or environmental geology may be acceptable.

Applicants should submit complete dossiers, including a letter of intent, a complete curriculum vitae, statements of research and teaching interests and teaching philosophy, and have sent undergraduate and graduate transcripts, and at least three reference letters postmarked no later than January 21, 2000. Address all applications and inquiries to: **Bryan LeBeau, EVS/ATS Search Committee Chair, c/o Dean, College of Arts and Sciences, Creighton University, 2500 California Plaza, Omaha, Nebraska 68178.** *Creighton University is a Jesuit, Catholic institution that encourages applications from qualified individuals of all backgrounds, who can contribute to the distinctive educational tradition of the University. Creighton University is an Affirmative Action/Equal Opportunity Employer.*

The Department of Biology at The University of West Florida ([website: www.uwf.edu](http://www.uwf.edu)) invites applications for a Chairperson at the level of **ASSOCIATE** or **PROFESSOR** (tenure-earning) beginning August 2000. The Department offers both bachelor's and master's programs in general biology, marine biology, microbiology, molecular biology, plant science, and medical technology. We are seeking a Chair whose interests will complement those of existing faculty and continue a tradition of interactive research and teaching. Biologists from all fields are invited to apply, but the emphasis will be on biochemistry, physiology, and/or marine biology. The successful candidate will establish and maintain an active research program and contribute to undergraduate/graduate teaching. The position comes with a competitive salary and start-up package commensurate with experience. The deadline for receipt of applications is December 31, 1999. Send a letter outlining teaching and research interests and administrative goals with a curriculum vitae and five letters of reference to: **Chair, Search Committee, Department of Biology, University of West Florida, 11000 University Parkway, Pensacola, FL 32514-5750. E-mail: vsharma@uwf.edu.** *The University of West Florida is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR Biochemistry. Tenure-track position in physical sciences. Ph.D. in biochemistry or related field; postdoctoral training an advantage. Demonstrated interest in undergraduate teaching and research. Duties include developing and teaching courses in biophysical chemistry, biochemistry, other undergraduate chemistry courses, and working with the Biology Department to establish a biochemistry major. Screening begins immediately and continues until the position is filled. Send curriculum vitae, statement of teaching philosophy and research interests, three letters of recommendation to: **Dr. Elizabeth Cowles, Biology Department, 83 Windham Street, Eastern Connecticut State University, Willimantic, CT 06226. Website: <http://www.ecsu.ctstateu.edu>. Telephone: 860-465-4385; FAX: 860-465-5213; e-mail: cowlse@ecsu.ctstateu.edu.** *Eastern is an Affirmative Action/Equal Employment Opportunity Employer.*

POSITIONS OPEN

PHYSICALLY-ORIENTED BIOCHEMIST (SEARCH EXTENDED)—Chemistry Department, Fairfield University, Fairfield, Connecticut, invites applications for a tenure-track position at the **ASSISTANT** or **ASSOCIATE** (tenure negotiable) Professor level in the area of biophysical chemistry beginning September 2000. The successful candidate will have a Ph.D. (some postdoctoral experience preferred) in chemistry and will be committed to excellence in teaching in an undergraduate liberal arts setting. In addition, the candidate will be expected to set up and maintain, through grant-writing initiatives, an ongoing research program involving undergraduate students. Start-up funds are available. Teaching responsibilities may include general chemistry, physical chemistry, analytical chemistry, and biochemistry, as well as the development of upper-division specialty courses in the candidate's areas of expertise.

The Chemistry major at Fairfield is American Chemistry Society-certified and is research-active. Instrumentation and equipment includes FT-NMR, FT-IR, GCMS, HPLC, UV/VIS, spectrofluorimeter, and laser and flash photolysis. The department also has extensive computer hardware and software for molecular modeling activities.

Qualified candidates should send a letter of application outlining the candidate's qualifications, a curriculum vitae, graduate and undergraduate transcripts, a statement of teaching goals, a statement of research interests and goals (including how undergraduates would be involved), and selected reprints. The candidate should also arrange for three (3) letters of reference. This material should be sent to: **Professor Edmond J. O'Connell, Chair, Department of Chemistry, Fairfield University, Fairfield, CT 06430.** The deadline for the search has been extended to January 1, 2000. *Women and minorities are encouraged to apply. Fairfield University is an Affirmative Action/Equal Opportunity Employer.*

BOTANISTS: ASSISTANT PROFESSOR, two positions, tenure-track. Qualifications include the Ph.D., a broad background in plant sciences, and a strong commitment to teaching and scholarship at the undergraduate level. Successful applicants will possess expertise in a subspecialty such as (1) cellular or physiological aspects of plant biology; or (2) systematics, genetics, or plant ecology, with expertise in flora of the eastern United States and experience in maintaining a herbarium. Duties include teaching introductory biology, plant biology, courses in a subspecialty, and developing a successful research program involving undergraduates. Send résumé, statement of research plans and undergraduate teaching philosophy, transcripts, and three letters of reference to: **Dr. Gregg Kormanik, Chair, Department of Biology, University of North Carolina at Asheville, Asheville, NC 28804.** Review of applicants begins 31 December 1999, and continues until position is filled. Visit [website: www.unca.edu/biolog/](http://www.unca.edu/biolog/). *The University of North Carolina at Asheville is an Equal Opportunity Employer. All persons regardless of race, sex or disability status are encouraged to apply.*

MICROBIAL ECOLOGIST University of Dallas

The University of Dallas, a selective Catholic liberal arts university, seeks a microbial ecologist for a tenure-track appointment at the **ASSISTANT** or **ASSOCIATE** level beginning August 2000. He/she should be able to teach microbiology and molecular biology. Successful candidates will also teach a course in their field of expertise and maintain an active research program with undergraduates. Ph.D. is required along with proven teaching and research ability. Applicants should submit curriculum vitae, names of three references, and a statement describing the nature of their commitment to undergraduate teaching and research. These items should be submitted to: **Dr. Frank Doe, Department of Biology, University of Dallas, 1845 East Northgate Drive, Irving, TX 75062.** Consideration of candidates will begin January 15, 2000. *Equal Opportunity Employer.*

POSITIONS OPEN

FRED HUTCHINSON CANCER RESEARCH CENTER

The Clinical Research Division of the Fred Hutchinson Cancer Research Center and the Department of Pediatrics, University of Washington, are seeking a Board Certified/Board Eligible physician to be appointed as an **ASSISTANT/ASSOCIATE MEMBER/PROFESSOR** in the Physician/Scientist pathway. This position is requested to enhance our research activities in pediatric oncology at the FHCRC and Children's Hospital and Regional Medical Center. This person will be expected to be involved in the molecular genetics of childhood solid tumors. The candidate's salary and research support should be derived from a combination of external funding sources and institutional support. The successful candidate will have laboratory space within the Clinical Research Division of the Fred Hutchinson Cancer Research Center. Interested candidates should send curriculum vitae, a concise statement of research plans, and three confidential letters of recommendation along with a letter of application to: **New Appointments Pediatrics Solid Tumor Committee, Assistant/Associate Member/Professor in the Physician/Scientist Pathway Search, Fred Hutchinson Cancer Research Center, Clinical Research Division, 1100 Fairview Avenue North D5-310, P.O. Box 19024, Seattle, WA 98109.** The search will remain open until an appointment is made, but complete applications should be received by January 1, 2000, to ensure full consideration. *The University of Washington and the Fred Hutchinson Cancer Research Center are building a culturally diverse faculty and strongly encourage applications from female and minority candidates. The University of Washington and Fred Hutchinson Cancer Research Center are Equal Opportunity/Affirmative Action Employers.*

EPIDEMIOLOGIST. The Department of Medical Microbiology and Parasitology at the University of Georgia invites applications for a 12-month, tenure-track position at the **ASSISTANT PROFESSOR** level. Responsibilities will be to apply epidemiologic methods for the study of animal disease and to teach epidemiology in the veterinary, undergraduate, and graduate curriculum. The successful candidate will be expected to establish an extramurally-funded research program. Required qualifications are: Ph.D. degree with emphasis on epidemiologic aspects of animal disease. The D.V.M. degree, teaching, and postdoctoral experience are desirable. Applicants should submit a curriculum vitae, names of three references, and a statement of research interests. Applications received by January 17, 2000, are assured consideration for a July 1, 2000, starting date. Applications should be directed to: **Dr. Richard E. Wooley, Department of Medical Microbiology and Parasitology, College of Veterinary Medicine, The University of Georgia, Athens, GA 30602-7386. E-mail: wooley@calc.vet.uga.edu or FAX: 706-542-5771.** *The University of Georgia is an Equal Opportunity/Affirmative Action Employer and applications from women and minorities are encouraged.*

Applications are solicited for a tenure-track **ASSISTANT PROFESSOR** position in cell biology in the Department of Biology. The successful candidate will be expected to become involved in extramurally-funded, interdisciplinary research and to initiate interdisciplinary collaborations with researchers in other departments as appropriate. A previous history of external funding will be a plus. Start-up funds for research will be negotiable. The primary teaching responsibility will be at the graduate level. Applications must contain a curriculum vitae, description of postdoctoral experience, and a statement of present and anticipated research interests. Please include the names of three references who will agree to send letters of recommendation. Send applications to: **Dr. Sisir K. Dutta, Chair, Selection Committee, Department of Biology, Howard University, 415 College Street NW, Washington, DC 20059.** Review of application begins December 15, 1999. *Howard University is an Equal Opportunity/Affirmative Action Employer.*



BABSON
COLLEGE

DIRECTOR OF SCIENCES

Babson College is seeking a dynamic, inspirational scientist with a strong commitment to teaching excellence and scholarship to assume the position of Director of Natural Sciences. Candidates should possess proven interpersonal, leadership and organizational skills to enable them to oversee the development and administration of all science programs at Babson College. Experience in teaming with other colleges particularly in engineering topics will be useful. Babson has a special opportunity to partner in developing innovative curricula and joint initiatives with the new Franklin W. Olin College of Engineering now adjacent to our campus.

Founded in 1919, Babson College offers Bachelor's and Master's degree programs in business management. There are approximately 1,650 undergraduate students, an equal number of graduate students and a growing number of individuals who come to Babson for executive and advanced professional courses. The college is located 14 miles west of Boston on a 380 acre wooded campus in Wellesley, Massachusetts. Babson College is an Equal Opportunity Employer.

Send CV and three letters of recommendation to:
Professor Gordon D. Prichett
Chair of Search Committee
Division of Mathematics and Sciences
Babson College
Babson Park, MA 02457-0310

Visit our web-site: www.babson.edu.

The University of Chicago Department of Chemistry has immediate openings for Three Instrumentation Specialists.

(1) **NMR Facility Manager.** The Department has several Bruker instruments (DMX-500, DRX-500, two DRX-400, DMX 300). The manager is responsible for maintaining the instruments, training students to use the instruments, implementing new/advanced experiments, supervising an electronics technician and setting policies for efficient operation of the NMR facility. Candidates should have a Ph.D. in Chemistry, Physics or a related area with an emphasis on NMR, extensive experience in modern NMR methods including multidimensional, gradient and solids NMR methods, experience with electronics, familiarity with relevant computer software and managerial skills.

(2) **Mass Spectrometry Facility Manager.** The Department is in the process of significantly upgrading the mass spectrometry facility. The manager is responsible for providing technical expertise for instrument purchases, maintaining and operating the instruments, training students to use the instruments, implementing new/advanced experiments, supervising an electronics technician and setting policies for efficient operation of the mass spectrometry facility. Candidates should have a Ph.D. in Chemistry, Physics or a related area with an emphasis on mass spectrometry, extensive experience in modern mass spectrometry methods including high resolution, GC-MS, electrospray and MALDI-TOF, experience with electronics, familiarity with relevant computer software and managerial skills.

(3) **Instrument Specialist.** The specialist is responsible for maintenance of analytical instruments, including high field NMR spectrometers, mass spectrometers, X-ray diffractometers, FT-IR spectrometers and a variety of smaller instruments. The specialist will be supervised by Ph.D. scientists and will be responsible for routine preventive maintenance, trouble shooting and repairing of the instruments, periodic assessment of instrument performance using reference standards, providing routine sample analyses, and maintaining an inventory of parts and supplies. Candidates should have a B.S. or M.S. in Electrical Engineering, Physics or a related area or equivalent experience, experience in maintenance and repair of modern scientific instruments, and strong electronics and computer skills.

Candidates for all three positions should send a vita and arrange to have three letters of recommendation sent to **Chairman, Department of Chemistry, The University of Chicago, 5735 S. Ellis Avenue, Chicago, IL 60637 by 12/28/99.** An Equal Opportunity/Affirmative Action Employer.



Post-Doctoral Opportunities

Mount Sinai School of Medicine is a leader in medical education and research. We have the following opportunities available for experienced research professionals.

**MOUNT SINAI
SCHOOL OF
MEDICINE**

Derald H. Ruttenberg Cancer Center

A post-doctoral position is available immediately to investigate the molecular mechanism of breast cancer metastasis involving cadherin-mediated cell adhesion, matrix metalloproteinases and growth factors. Experience in both cellular and molecular work as well as *in vivo* systems is desirable. Reply with a letter of interest and C.V. to: **Dr. Rachel Hazan, Derald H. Ruttenberg Cancer Center, Box 1130; Fax: 212-987-2240; E-mail: rhazan@smrplink.mssm.edu**

Brookdale Center for Developmental and Molecular Biology

A post-doctoral position is currently available to study two novel families of murine homeobox genes that are involved in embryonic development of the mesoderm and nervous system. We are presently examining the role of these gene families through transgenic approaches in mice using the Cre/loxP system and gene knockout in ES cells. In addition, we are studying the enhancer/promoter regions of these genes using lacZ and GFP in transgenic mice, as well as examining the signaling processes involved in the regulation and function of these genes, in part, through novel gene "knock-in" and yeast two-hybrid approaches. Applications will be accepted until February 1, 2000 or until position is filled. Reply with C.V. and list of three references to: **Dr. Thomas Lufkin, Brookdale Center for Developmental and Molecular Biology, Box 1020; Fax: 212-860-9279; E-mail: thomas.lufkin@mssm.edu.**

Pediatric Allergy and Immunology

A post-doctoral position is available immediately with a project involving the development of new forms of immunological therapies, such as DNA vaccination, and cytokine gene therapy for the treatment of allergic diseases such as food allergy in an animal model system. Applicants should have a Ph.D. with research experience in molecular biology and immunology, supported by an enthusiasm and commitment to applied and basic research in food allergy. The ability to communicate fluently in English is required. Reply with C.V. and the names of three references to: **Ms. Park, Administrator, Pediatric Allergy and Immunology, Box 1198; Fax: 212-426-1902.**

Salary level will be commensurate with qualifications and experience. For consideration, send C.V., following "Reply to" information for position of interest, to: **Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.** We are an equal opportunity employer fostering diversity in the workplace.

POSITIONS OPEN

TENURE-TRACK FACULTY DRUG DELIVERY

The University of Wisconsin-Madison

The Division of Pharmaceutical Sciences in the School of Pharmacy, University of Wisconsin-Madison, solicits applications for a tenure-track faculty position in the area of biomaterials and drug delivery. The position is at the **ASSISTANT PROFESSOR** rank but other levels will be considered for outstanding candidates. Applicants should possess a Ph.D. in an appropriate field and be capable of building a strong, independent research program while engaging in productive, interdisciplinary research related to drug delivery, tissue engineering, or gene delivery. A commitment to undergraduate and graduate education is essential. The successful applicant will occupy "state-of-the-art" laboratories in the newly constructed School of Pharmacy. There are multiple opportunities for research interaction within the department whose faculty are engaged in drug research at the chemistry/biology interface. Significant collaborative opportunities also exist with faculty in other departments and programs across the campus. Applications will be accepted until February 1, 2000. Applicants should send a letter, curriculum vitae, names of references, a statement of teaching interests, and a summary of planned research to:

Chair, Search Committee
School of Pharmacy
University of Wisconsin-Madison
425 North Charter Street
Madison, WI 53706-1515
Telephone: 608-262-3196

Women and underrepresented minority groups are encouraged to apply. The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.

URBAN WETLANDS ECOLOGIST ENVIRONMENTAL SCIENTIST Queens College (City University of New York)

The Queens College School of Earth and Environmental Sciences invites applications for a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR** position in urban wetlands ecology/environmental science beginning in the fall semester, 2000. Applicants must have a Ph.D. by fall, 2000 and a record of success in field-based urban wetland research, external fundraising, and teaching. The successful candidate will teach classes in wetlands ecology/environmental science at undergraduate through doctoral levels, and introductory courses in environmental sciences; establish a vigorous field-based research program; design and supervise student research; and interact with our geoscience faculty to develop curricula and help the school expand.

Please submit application letter, curriculum vitae, three letters of recommendation, and transcripts of all degrees by February 15, 2000, to: **Dr. Allan Ludman, Chairman, School of Earth and Environmental Sciences, Queens College (CUNY), Flushing, NY 11367-1597.** Information about the school is available at website: www.qc.edu/EES. An Equal Opportunity/Affirmative Action/American Disability Act Employer.

Two **ASSISTANT PROFESSOR**, tenure-track positions starting September 16, 2000. **DEVELOPMENTAL BIOLOGIST** to teach Developmental Biology, participate in Genetics and Cell Biology. **VERTEBRATE EVOLUTIONARY BIOLOGIST** to teach Evolution and Mammalogy; curate vertebrate collection. Both positions teach introductory biology or interdisciplinary general education. Applicants must demonstrate excellence in undergraduate teaching and research. Ph.D. required. Position descriptions at website: www.sou.edu/biology or contact: **Department of Biology, Southern Oregon University, Ashland, OR 97520.** Preference given to applications received by January 7, 2000; position open until filled. *Equal Opportunity/Affirmative Action Employer committed to the development of an inclusive, multicultural community.*

POSITIONS OPEN

TENURE-TRACK POSITION Université de Montréal Faculty of Dentistry

The Faculty of Dentistry seeks applicants for a tenure-track position at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR**, effective June 2000. The primary focus of the position is research, however, the successful candidate will have to teach at the graduate and undergraduate levels. Fluency in French or commitment to learn the language is required. Applicants must have a Ph.D. followed by postdoctoral studies in a pertinent discipline. Those with a demonstrated publication record and with existing or imminent grant support will be given preference. He or she will join growing research programs on the cell biology of normal and pathological calcified tissues, tissue regeneration and engineering, biomaterials and the immunology/microbiology of orofacial diseases. The selected candidate is expected to submit applications to major governmental granting agencies. Université de Montréal offers a competitive salary and a complete range of fringe benefits. Submit a brief statement of interest, a complete curriculum vitae and names of three referees before February 15th, 2000, to: **Monique Michaud, President of the Search Committee, Faculty of Dentistry, Université de Montréal, P.O. Box 6128, succursale Centre-ville, Montréal (Québec), H3C 3J7, Canada. Telephone: 514-343-5844, FAX: 514-343-2233. E-mail: michaud@medent.umontreal.ca.** In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University is committed to equal employment opportunity for women.

PLANT ECOLOGIST

The Department of Biology of Swarthmore College invites applications for a tenure-track appointment at the **ASSISTANT PROFESSOR** level, to begin September 2000. We seek a plant ecologist with field experience who is committed to combining teaching and research at a small liberal arts college. Teaching responsibilities include an intermediate-level course in general ecology, an advanced seminar in a major area within plant ecology, and participation in the Department's introductory biology sequence. Expertise and experience in conservation biology will be viewed with favor. There will be opportunities to participate in the College's environmental studies programs. The successful candidate will be expected to establish an active research program that will provide opportunities for undergraduate participation. A Ph.D. is required; postdoctoral research experience and teaching experience are desirable. Applicants should submit a curriculum vitae, three letters of recommendation, and statements of teaching and research interests by January 7, 2000, to:

Mark Jacobs, Chair
Department of Biology
Swarthmore College
Swarthmore, PA 19081-1390

Swarthmore College is an Equal Opportunity Educator and Employer, and specifically invites and encourages applications from women and minorities.

The Department of Zoology at Brigham Young University invites applications for a tenure-track position in Ecology to begin September 1, 2000. We seek an **ECOLOGIST** with a research emphasis at the population or community level. The successful candidate is expected to establish an extramurally-funded research program, and to participate in graduate and undergraduate education. A Ph.D. and postdoctoral experience is required. Interested persons should request an application packet from: **Dr. Dennis K. Shiozawa, Department of Zoology, Brigham Young University, Provo, UT 84602. FAX: 801-378-7423; e-mail: Dennis_Shiozawa@byu.edu** before December 15, 1999. *Brigham Young University, an Equal Opportunity Employer, is sponsored by The Church of Jesus Christ of Latter-day Saints and requires that all faculty members observe Church standards including strict grooming, moral and health codes. Members in good standing of the sponsoring Church are encouraged to apply.*

POSITIONS OPEN

SENIOR IMMUNOLOGIST University of California, Irvine

The University of California, Irvine (UCI) is seeking a senior immunologist, at the Professor level, in the Department of Molecular Biology and Biochemistry. A campus-wide task force recently articulated the need for building depth in immunology at UCI. UCI has strength in certain areas of immunology, and numerous faculty in both the School of Biological Sciences and the College of Medicine have interests in topics that involve immunology. Strong interdepartmental research programs at UCI include those in cancer (the Chao Family Comprehensive Cancer Center), virology (the UCI Research Unit in Virology), and neurodegenerative disease (the ORU in Brain Aging). Future plans for developing immunology at UCI include additional faculty positions and dedicated research space. Applicants are sought who have outstanding research programs in any aspect of immunology, who are committed to interacting with existing UCI faculty, and who will take a leadership role in building immunology on the campus. Appropriately qualified individuals may be offered an endowed professorship. Interested individuals should submit a curriculum vitae, statement of research interests and a list of at least four references by December 31, 1999, to:

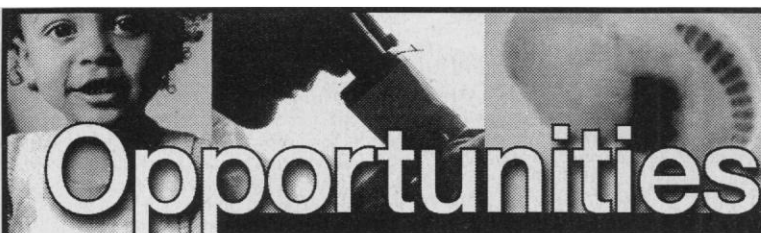
Dr. Hung Fan
Chair, Senior Immunology Search Committee
Department of Molecular Biology
and Biochemistry
University of California
Irvine, CA 92697-3900

University of California, Irvine is an Equal Opportunity Employer.

UNIVERSITY OF VERMONT PLANT MOLECULAR BIOLOGY

The Department of Botany and Agricultural Biochemistry announces the availability of a tenure-track position at the **ASSISTANT PROFESSOR** level. The successful candidate will be expected to establish a vigorous, externally funded research program in plant molecular biology. Teaching responsibilities will include an undergraduate course in plant physiology and courses determined by the needs of the department and interests of the candidate. Candidates must have 1) a Ph.D. and 2) significant postdoctoral experience in plant molecular biology. Information about the department can be found at our website: www.uvm.edu/~plantbio. Review of applications will begin December 15, 1999, and continue until the position is filled. Send letter of application including a statement of research and teaching interests, curriculum vitae, and three letters of reference to: **Dr. Mary Tierney, Chair, Plant Molecular Biology Search, Department of Botany and Agricultural Biochemistry, Marsh Life Science Building, University of Vermont, Burlington, VT 05405.** *Women and representatives of diverse racial, ethnic and cultural groups are strongly encouraged to apply. Affirmative Action/Equal Opportunity Employer and Educator.*

Tenure-track **ASSISTANT PROFESSOR** position in vertebrate biology for fall 2000 to teach anatomy and physiology, and advanced courses in an open area of specialization, with preference for environmental or marine science. The successful candidate will establish a research program in which undergraduates participate and have the opportunity to participate in interdisciplinary teaching. Required qualifications include a Ph.D., evidence of commitment to undergraduate teaching, and potential for quality scholarship. See website: www.honorscollege.edu. Submit a curriculum vitae, a statement of teaching philosophy, a description of teaching and research plans, and contact information for three references to: **Chair, Biology Search Committee (S#252960), The Honors College, Florida Atlantic University, 5353 Parkside Drive, Jupiter, FL 33458.** Materials must be postmarked by December 27, 1999. *Florida Atlantic University is an Equal Opportunity/Access/Affirmative Action Institution.*



Developmental Biology Postdoctoral Positions

The Developmental Biology Division, expanding under the future direction of Dr. Chris Wylie, is seeking postdoctoral applicants. We offer outstanding new facilities, cutting edge research opportunities in a variety of areas, and an excellent quality, low-cost living environment. Core facilities include sequencing, confocals, proteomics, and transgenics for both classical and ES cell mediated gene modifications. Salaries are competitive.

Contact:

Ms. Maureen Huschart, Division of Developmental Biology
Children's Hospital Research Foundation, TCHRF 2013
3333 Burnet Avenue, Cincinnati, OH 45229-3039
E-mail: dbpostdoc@chmcc.org

Visit our website at

www.cincinnatichildrens.org/chrf/research_programs/divisions/15

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

Opportunities are available with the following faculty:

Bruce Aronow: Mammalian gene regulation in transgenic and knockout mice and in gene therapy vector models. Bioinformatics of mammalian gene regulation.

Jay Degen: Development, tissue remodeling, inflammatory response, and disease progression in mice with genetic deficits in hemostatic factors.

Sandra Degen: Biology of blood coagulation proteins and related growth factors and their tyrosine kinase receptors.

Ajit Kumar: Generation of mouse models of human cardiomyopathies that are associated with missense mutations in the cardiac alpha-actin gene.

James Lessard: Development and function of muscle and the functional and developmental significance of the muscle actins.

Jun Ma: Molecular mechanisms governing transcriptional regulation and development, focusing on homeodomain proteins and general transcription factors.

Steven Potter: Homeobox genes, organogenesis and the left-right axis of development, using gene chips to define genetic pathways, gene targeting for functional analysis, and organ culture for the study of inductive interactions.

William Scott: Effects of drugs, environmental chemicals, and constructed mutations on pattern formation in the vertebrate limb.

Charles Vorhees: Developmental and adult neurotoxicity of substituted amphetamines and the functional consequences of such effects, especially on spatial learning and memory, and genes involved in mediating learning and memory using gene targeting.

Susan Waltz: Molecular analysis of growth factors and tyrosine kinase receptors in tumorigenesis, organ function and cellular trauma.

Dan Wiginton: Development of intestinal epithelium and the cellular differentiation that occurs there, with emphasis on the network of factors and mechanisms that control these processes.



Assistant PROFESSOR



Massachusetts General Hospital Cancer Center Harvard Medical School Dept. of Cell Biology

The MGH Cancer Center and the Department of Cell Biology, Harvard Medical School, invite applications for a tenure track faculty position at the level of Assistant Professor.

The successful candidate will occupy laboratories at the Cancer Center in MGH's Charlestown facilities and be a member of the Cell Biology Department at the Harvard Medical School. We seek outstanding individuals wishing to establish a strong research program and encourage applications from Developmental, Cellular and Cancer biologists. The successful candidate is also expected to participate in the teaching activities of the Department of Cell Biology and the MGH Cancer Center.

Candidates should provide curriculum vitae including a full list of publications, four letters of reference, and a brief statement of research and teaching interests. These materials should be forwarded by January 1, 2000 to:

Search Committee
c/o Diane Zabrowski
MGH Cancer Center
Dept. of Cell Biology
Building 149, 13th Street
Room 7309
Charlestown, MA 02129

Massachusetts General Hospital and Harvard University uphold a commitment to affirmative action and equal opportunity.

TENURE-TRACK SCIENTIST POSITION

DIVISION OF INTRAMURAL RESEARCH NATIONAL INSTITUTE OF NURSING RESEARCH NATIONAL INSTITUTES OF HEALTH

The Division of Intramural Research (IR), National Institute of Nursing Research (NINR), National Institutes of Health (NIH) invites nominations and applications for a tenure-track position with the Division of Intramural Research. This position offers an exciting opportunity to make a substantial contribution to the NINR Division of Intramural Research. We are seeking an exceptional, highly motivated candidate to establish and build an independent research laboratory targeted at symptom management. Applications are sought from candidates with a program of research in such areas as nausea and vomiting, lymphedema, pain, genetics, noise, fatigue, stress, exercise/physical conditioning, relaxation, mucositis, psychophysiology, eating disorders, fever/thermoregulation or other areas that are consistent with symptom management. Programs of research may be clinical, basic, or integrative. Individuals must hold a doctoral degree (PhD, DNS, DSN, ScD etc.) and be licensed to practice as a registered nurse in the United States and have two or more years of postdoctoral experience. Research support (positions, laboratory budget, and space) will be provided by NINR. The salary and research resources will be commensurate with the qualifications and experience of each candidate. All candidates must be U.S. citizens. Candidates may be eligible for relocation assistance.

Applicants should send a curriculum vitae with bibliography, select publications, statement of research interests, and the name, address, and telephone number of three professional references to:

Ms. Cherry L. Earl
National Institute of Nursing Research
National Institutes of Health
31 Center Drive, MSC 2178
Bethesda, MD 20892-2178
(301)402-2631

Applications must be received by **January 21, 2000**

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

POSITIONS OPEN

CANCER BIOLOGIST

The Ben May Institute for Cancer Research
The University of Chicago

The University of Chicago is seeking applicants for a tenure-track position at the **ASSISTANT PROFESSOR** level. The Ben May Institute for Cancer Research (BMICR) is a basic research unit that for 46 years has been committed to the study of basic mechanisms of cancer. The current faculty is committed to an interdisciplinary approach using established and newly emerging biochemical, genetic, molecular and structural biological tools to attack basic problems in cancer biology. We are seeking outstanding individuals interested in diverse aspects of cancer biology including, but not limited to: cell growth and differentiation, signal transduction and structural biology. The BMICR is closely interfaced with the University of Chicago National Cancer Institute-designated Comprehensive Cancer Center and the University of Chicago Center for Molecular Oncology. Additionally, the BMICR is closely affiliated with the graduate degree-granting Committee on Cancer Biology. Candidates should have sufficient research experience to demonstrate both significant accomplishments and outstanding potential. Curriculum vitae, bibliography, a brief statement of research interest and three letters of recommendation should be sent to: **Marsha Rosner, Chairman, Faculty Search Committee, The Ben May Institute for Cancer Research, 5841 South Maryland Avenue, MC6027, Chicago, IL 60637.** Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR UNIVERSITY OF DELAWARE Environmental Microbiology, Plant and Soil Sciences

The University of Delaware seeks applicants for a nine-month tenure-track faculty position in the general area of Environmental Microbiology. The successful candidate will have an appointment in the Department of Plant and Soil Sciences ([website: http://bluehen.ags.udel.edu/plsc/plsc.html](http://bluehen.ags.udel.edu/plsc/plsc.html)) and the Delaware Biotechnology Institute (DBI) (see [website: http://www.DBI.udel.edu](http://www.DBI.udel.edu) for a full position description). The position is 70 percent research and 30 percent teaching. The successful candidate is expected to develop a vigorous extramurally funded research program emphasizing the use of molecular tools to address issues in microbial ecology, soil and water quality, and sustaining agricultural productivity. Commitment to a team-oriented approach in teaching and research are essential. CONTACT: Applicants should submit a cover letter describing their interest and suitability for the position, a curriculum vitae, official transcripts, names, e-mail addresses or telephone numbers of three references to: **Dr. Mark Radosevich, Department of Plant and Soil Sciences, 149 Townsend Hall, University of Delaware, Newark, DE 19717-1303; Telephone: 302-831-1376; e-mail: mrad@udel.edu.** DEADLINE: January 15, 2000. *The University of Delaware is an Equal Opportunity Employer which encourages applications from minority group members and women.*

ASSISTANT/ASSOCIATE PROFESSOR, University of South Carolina, Department of Environmental Health Sciences: Tenure-track, fall 2000. Research emphasis on environmental impacts of coastal development, contaminants, and/or associated processes. 63 percent of 12-month duties include research, graduate-level teaching, generation of extramural support, and service; 38 percent requires funded program management for South Carolina Sea Grant Consortium. Successful applicant will have academic/research experience and a successful record of competitive funding support. Send curriculum vitae, statement of teaching/research objectives, and names, addresses, telephone numbers of three references to: **Dr. A. W. Decho, Chair, Search Committee, Department of Environmental Health Sciences, School of Public Health, University of South Carolina, Columbia, SC 29208.** *The University of South Carolina is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

The Department of Biology at Swarthmore College invites applications for two one-year faculty positions at the **ASSISTANT PROFESSOR** level, in the areas of neurobiology and evolutionary biology. Applicants should have a Ph.D., teaching experience, and a strong commitment to undergraduate education. All application materials should be received by January 21, 2000.

NEUROBIOLOGY: Teaching responsibilities will be an undergraduate course in neurobiology with weekly neurophysiology laboratories, a senior-level seminar in some area of neurobiology which also will include laboratory work, and participation in a team-taught introductory course in cellular and molecular biology. Applicants should submit a curriculum vitae, three letters of recommendation, and a statement of teaching and research interests to: **Dr. Kathleen Siwicki, Neurobiology Search, Department of Biology, Swarthmore College, Swarthmore, PA 19081-1390.**

EVOLUTIONARY BIOLOGY: Teaching responsibilities include a broadly-based, intermediate-level course in evolution with weekly laboratories, an advanced seminar with laboratory in some area within evolutionary biology, and participation in the Department's introductory biology sequence. Applicants should submit a curriculum vitae, three letters of recommendation, and a statement of teaching and research interests to: **Dr. Colin Purrington, Evolutionary Biology Search, Department of Biology, Swarthmore College, Swarthmore, PA 19081-1390.**

Swarthmore College is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

FACULTY POSITION MOLECULAR AND CELLULAR PHYSIOLOGY University of Michigan

The Department of Physiology invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** rank. We are seeking an individual studying the function of eukaryotic cells at the cellular and molecular levels. Applications are encouraged from individuals studying molecules involved in membrane permeability and transport. The successful applicant will be considered for the Biological Scholars Program (see 20 August 1999 *Science*) and will have the opportunity to participate in the new Center for Integrative Genomics. The applicant will be expected to establish an externally funded research program and participate in the teaching of graduate and professional students. Qualifications include a Ph.D. or its equivalent and postdoctoral research. Candidates should send a curriculum vitae and summary of research interests and arrange for at least three references to be sent to: **Chair: Molecular and Cellular Physiology Search, Department of Physiology, University of Michigan, Ann Arbor, MI 48109-0622.** The review process will start January 3, 2000. *University of Michigan is an Equal Opportunity/Affirmative Action Employer committed to achieving diversity among its faculty and staff.*

COLUMBIA UNIVERSITY INSTRUCTOR

A position is available at the Instructor level to study the molecular genetics of pediatric cancers. Requires three years of postdoctoral work in molecular genetics. Reply with curriculum vitae to **Dr. Benjamin Tycko, Associate Professor of Pathology, Columbia University, 630 West 168th Street, NY, NY 10032, E-mail: bt12@columbia.edu.** *Columbia University takes Affirmative Action to ensure Equal Employment Opportunity.*

UTAH STATE UNIVERSITY WORDMARK

Plant Stress Physiology tenure-track faculty position is available at Utah State University to conduct research, mentor students, and teach. Requires Ph.D. in related area. Review begins December 31, 1999. See [website: http://personnel.usu.edu](http://personnel.usu.edu) (2-143) for full description. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR BIOMEDICAL SCIENCES

Ph.D. in medicinal chemistry, biochemistry, or a closely related field is required. At least two years of postdoctoral experience, a strong publication record, and excellent communications skills necessary for undergraduate and graduate teaching are required. For the assistant level, must be in a strong position to establish an externally funded research program. For the associate level, existing multi-year funding is required. Individuals with prior teaching experience will be given preference. The research area is open, but it should broaden the existing expertise in the department in chemical approaches to studying biological mechanisms. This is a tenure-track position beginning in July of 2000. Further information about the department can be found at [website: www.uri.edu/pharmacy/departments/bms/index.html](http://www.uri.edu/pharmacy/departments/bms/index.html). Review of applications will begin immediately and continue until the position is filled. Submit cover letter, curriculum vitae, names of three references, copies of selected publications, and a statement of research goals and teaching interests to: **Dr. Z. A. Shaikh, Search Committee Chair, (Log #161101SM), University of Rhode Island, P.O. Box G, Kingston, RI 02881.** *The University of Rhode Island is an Affirmative Action/Equal Opportunity Employer and is committed to increasing the diversity of its faculty, staff, and students. Persons from underrepresented groups are encouraged to apply.*

CHAPMAN UNIVERSITY: Tenure track position in **GEOLOGY** in the Department of Environmental and Chemical Sciences at an independent, comprehensive university located 30 miles south of Los Angeles in a culturally diverse community. Effective fall 2000. **ASSISTANT PROFESSOR.** Salary commensurate with qualifications and experience. Ph.D. in geology, environmental science, or a related field; ability to teach a range of courses, such as physical and environmental geology and hydrology; demonstrated excellence in teaching and scholarship; and commitment to working with students and developing collaborative research required. Specialization in environmental geochemistry, demonstrated ability or potential to acquire extramural funding, and interest and ability to teach in interdisciplinary core courses highly desirable. Faculty members are expected to be outstanding teachers and mentors as well as active scholars in their disciplines. Submit cover letter; résumé; evidence of qualifications, including teaching evaluations, course syllabi, and research plan; a list of references with addresses and telephone numbers, and three letters of reference to: **Dr. Michael Griffin, Chapman University, Orange, CA 92866. Telephone: 714-997-6864; email: griffin@chapman.edu.** Application review begins January 31, 2000, and continues until the position is filled. *Chapman University values diversity and is committed to providing equal career opportunities to all individuals.*

TROPICAL BIOLOGY

The Department of Ecology, Evolution, and Organismal Biology at Tulane University invites applications for a tenure-track position of **ASSISTANT PROFESSOR** in tropical biology to build areas of specialization in evolutionary ecology, population genetics, conservation biology, biodiversity, and/or aquatic organisms or systems (see [website: http://www.tulane.edu/~ecob/faculty_search](http://www.tulane.edu/~ecob/faculty_search)). Evidence of outstanding research, publications, and teaching ability will be the primary criteria for selection. Each candidate should submit a curriculum vitae, statement of research and teaching interests, selected publications, and three references by December 10, 1999, to: **David C. Heins, Chair, Department of EEO Biology, 310 Dinwiddie Hall, Tulane University, New Orleans, LA 70118-5698.** *Tulane University is an Affirmative Action/Equal Opportunity Employer committed to excellence through diversity; women and minorities are encouraged to apply.*

**ASSOCIATE/FULL PROFESSOR
MOLECULAR BIOLOGIST
FLORIDA STATE UNIVERSITY**



The Program in Medical Sciences and the Department of Biological Science of The Florida State University, in the second year of an ongoing faculty enhancement, invite applications for a senior level, tenure-track, molecular biologist. Individuals using model organisms to address fundamental questions regarding the molecular basis of life processes are particularly encouraged to apply. The successful applicant will solidify a growing cadre of molecular biologists in the Department and complement current research programs that focus on gene expression, development and the cell cycle in plant cells, *Drosophila*, zebrafish, amphibians and mouse. This position is funded by an ongoing enhancement of medical education at Florida State University. This individual will have the opportunity to play a leadership role in the recruitment of tenure track faculty in molecular biology and participate in the development of a medical school currently pending approval of Florida's Legislature and Board of Regents. State-funded salary and benefits and a generous start-up package commensurate with the experience of the successful candidate will be provided.

We seek an interactive individual with an established record of outstanding research accomplishments to participate in and help direct faculty growth. The successful candidate will participate in the graduate training program of the Department and the teaching of a medical genetics/biochemistry course for first-year medical students. The Department of Biological Science has extensive fully staffed research support facilities including molecular cloning, DNA sequencing, analytical biochemistry, computing, and confocal and electron microscopy. Associated programs in Structural Biology and the National High Magnetic Field Laboratory offer facilities for oligonucleotide/peptide synthesis, cell culture, NMR and X-ray diffraction facilities. Applicants should send a curriculum vitae, a description of research interests and the names and contact information for three referees to: **Molecular Biology Search, Program in Medical Sciences, 104 SCN, The Florida State University, Tallahassee, Florida, 32306-4300**. Review of applications will begin on December 21, 1999. Additional information may be found by visiting our web sites at <http://www.fsu.edu/~pims/pims.html> and <http://www.fsu.edu/~biology/>.

**TWO TENURE-TRACK FACULTY POSITIONS
MOLECULAR/CELLULAR PHYSIOLOGISTS
FLORIDA STATE UNIVERSITY**

The Program in Medical Sciences and the Department of Biological Science of The Florida State University invite applications for two tenure track faculty positions. Outstanding candidates employing innovative cellular or molecular approaches to address contemporary problems in biological research are sought. We are especially interested in candidates whose research complements existing research strengths such as: cell biology and physiology; developmental biology and gene expression; molecular biology and genetics; neuroscience; and evolutionary biology. Successful candidates will have a Ph.D. (or equivalent), postdoctoral research experience, and an outstanding record of research accomplishments, and will be expected to establish an independently funded research program. In addition, candidates must have appropriate experience for teaching systems physiology to first year medical students. These positions are funded by an ongoing expansion of medical education at FSU that, pending approval by the Florida Legislature and Board of Regents, will lead to the development of a medical school. Although we anticipate applicants at the assistant professor level, we encourage exceptionally well-qualified candidates at all levels to apply. Competitive start-up packages and state-funded salary with benefits will be provided.

The Department of Biological Science has extensive fully-staffed research support facilities including molecular cloning, DNA sequencing, analytical biochemistry, computing, and confocal and electron microscopy. Associated programs in Structural Biology and the National High Magnetic Field Laboratory offer facilities for oligonucleotide/peptide synthesis, cell culture, X-ray diffraction, and NMR facilities. Interested individuals should send a curriculum vitae, brief statement of research interests, and the names and addresses of three referees (including FAX and email contact information) to: **Physiology Search, Program in Medical Sciences, 104 SCN, The Florida State University, Tallahassee, Florida, 32306-4300**. Review of applications will begin December 21, 1999. Additional information may be found by visiting our web sites at <http://www.fsu.edu/~pims/pims.html> and <http://www.fsu.edu/~biology/>.



**PLANT BIOLOGY
OAKLAND UNIVERSITY
BIOLOGICAL SCIENCES**

Applications are invited for a **TENURE-TRACK** position in Plant Biology at the Assistant Professor level starting **August 15, 2000**.

Candidates must have a demonstrated record of excellence in research using molecular biology or other state-of-the-art techniques and a potential for excellence in teaching. Start-up funds and laboratory space are available for establishing a vigorous research program. A Ph.D. and postdoctoral experience are required.

Oakland University is a state-supported institution situated on a 1,400-acre campus 25 miles north of Detroit. The Department of Biological Sciences is a well-equipped, research-oriented department in the College of Arts and Sciences. The successful applicant will be expected to develop and maintain an independently funded research program. Teaching responsibilities will entail a course in botany with laboratory and an introductory course in alternate semesters. The selected candidate is expected to participate in the departmental graduate programs.

Review of applications will begin on **January 15, 2000**, and continue until the position is filled. Applicants should submit a curriculum vitae, statement of research plans and teaching philosophy, key reprints, and names of at least three references to:

**Search Committee
Department of Biological Sciences
Oakland University
Rochester, MI 48309-4401**

Oakland University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.

**Lakehead
UNIVERSITY**

VERTEBRATE ECOLOGIST

The Department of Biology and the Faculty of Forestry and the Forest Environment invite applications for a tenure track appointment at the rank of Assistant Professor commencing August 1, 2000. This position will augment the emphasis on ecology and will involve teaching one semester courses in comparative vertebrate anatomy, wildlife management and first year zoology. Applicants must have a particular penchant for teaching first year zoology.

MOLECULAR MICROBIOLOGIST

The Department of Biology and the interdisciplinary Applied Bio-Molecular Science Program invite applications for a tenure track appointment at the rank of Assistant Professor commencing January 1, 2000, or later. This position will augment the developing strength in molecular biology and applicants should have interests in one or more of the following: immunology, virology, molecular genetics or toxicology. The position involves teaching courses in microbiology and areas of specialization. Collaboration with other academic units and the Cancer Research Laboratory (www.nworcc.on.ca) is encouraged. For both positions the successful candidates will be expected to obtain research funding and to supervise graduate and undergraduate theses. A PhD is required and postdoctoral experience would be an asset. Applicants should send a curriculum vitae, statements of teaching and research interests, two most significant recent reprints and the names and addresses of three referees to: **Dr. James Gellert, Dean, Faculty of Arts and Science, Lakehead University, Thunder Bay, ON, Canada, P7B 5E1**. Application review will begin on December 15, 1999. This position is subject to final budgetary approval.

In accordance with Canadian Immigration requirements, this advertisement is directed first to Canadian citizens and permanent residents. Lakehead University is committed to employment equity, welcomes diversity in the workplace and encourages applications from all qualified applicants, including women, visible minorities, Aboriginal Peoples, and persons with disabilities.

POSITIONS OPEN

CENTER FOR DISCOVERY OF DRUGS AND DIAGNOSTICS (CD³) University of Central Florida

CD³ is dedicated to becoming a national leader in areas of research leading to new drugs and diagnostics. It is seeking to fill **TENURE-TRACK POSITIONS** at all levels beginning August 2000 in areas including computational chemistry or biology, NMR spectroscopy, biotechnology, and molecular biology. Successful candidates will have a Ph.D. and relevant postdoctoral experience. Preference will be given to applicants with established, independently funded research programs who are also willing to participate in collaborative and multidisciplinary approaches to developing new technology. Appointees will share the University's commitment to excellence in undergraduate and graduate teaching. Review of applications will begin January 3, 2000. Candidates should submit a curriculum vitae, a research plan including a summary of past accomplishments, and arrange for three letters of reference to be sent to: **Dr. John Goodchild, Director, Center for Discovery of Drugs and Diagnostics, University of Central Florida, 12722 Research Parkway, Orlando, FL 32826-3227.** As an agency of the State of Florida, UCF makes all application materials, including transcripts used in final screening, available to the public upon request. *University of Central Florida is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL SCIENTIST Signal Transduction in Lymphocytes

A research science position is immediately available to study members of a novel gene family, which impair signal transduction through heterotrimeric G protein-linked pathways. These studies will be in conjunction with ongoing studies of the role of G-proteins in lymphocyte development and differentiation. Experience in molecular biology and signal transduction technology is required. Applicants should have a M.D. or Ph.D. degree. Please send curriculum vitae and the names, addresses, and telephone numbers of three references to:

Dr. John Kehrl
B Cell Molecular Immunology Section
LIR, NIAID, NIH
Building 10, Room 11B08
10 Center Drive MSC-1876
Bethesda, MD 20892-1876 USA
E-mail: jkehrl@atlas.niaid.nih.gov

NIH is an Equal Opportunity Employer.

RESEARCH FELLOWSHIP at the John D. Dingell Veterans' Administration Medical Center in Detroit, Michigan, available immediately to study the regulation of gene transcription. M.D. or recent Ph.D. (within two years of graduation) in molecular biology or a related field required. Send curriculum vitae and references to: **Richard E. Miller, M.D., Associate Chief of Staff for Research, VA Medical Center, and Professor of Internal Medicine and Molecular Medicine and Genetics, Wayne State University, 4646 John R. Street, Detroit, MI 48201. FAX: 313-576-1112; e-mail: remiller@med.wayne.edu. U.S. citizenship preferred.**

TENNESSEE STATE UNIVERSITY invites applications for a tenure-track position at the **ASSISTANT-ASSOCIATE** level beginning fall 2000. Applicants should have a Ph.D. in pharmacology/toxicology/forensic chemistry or a related field (ABD is progress minimum for Assistant Professor). For more information, visit our website: <http://www.tnstate.edu/ohr/jobs.html>. Submit a letter of application, résumé, transcripts, and three letters of references to: **Tennessee State University, Office of Human Resources, 3500 John Merritt Boulevard, Nashville, TN 37209.** Application Deadline: Open until filled.

POSITIONS OPEN

VIROLOGIST

The Hematology Branch, National Heart, Lung and Blood Institute, NIH, is seeking a tenure-level or tenure-track investigator to head our Virus Discovery Group. The candidate should have a Ph.D. or M.D. degree and have achieved independent research status as evidenced by publication in major peer-reviewed journals. The Hematology Branch includes senior basic and clinical investigators with interests in blood cell production, the genetic basis of blood diseases, and gene transduction. A major focus is the relationship of viral infections to hematologic diseases, and we have made important contributions in parvovirus studies and in the relationship of hepatitis virus infection to aplastic anemia. The applicant will work closely with the Chief of the Branch in continuing a program of virus discovery as it relates to aplastic anemia, as well as in studies of B19 parvovirus and related infectious agents. The applicant should have a broad background in virology, a strong interest in human disease, and be innovative in the application of advanced molecular biology techniques to human pathophysiology. Applications must be received within six weeks of the publication of this advertisement. To apply, please send a curriculum vitae, bibliography, brief statement of research interests, and three letters of recommendation to: **Director, Clinical Research Program, DIR, NHLBI, 10 Center Drive MSC 1668, Bethesda, MD 20892-1668.** *NIH is an Equal Opportunity Employer.*

DEPARTMENT OF ANESTHESIOLOGY University of Rochester School of Medicine and Dentistry

Tenure-track faculty position at the **ASSISTANT/ASSOCIATE PROFESSOR** level to begin September 1, 2000, at the latest. Candidates must have a Ph.D., M.D., or both with expertise in molecular/neuroscience or related field and a record of excellence in research. The Department seeks an applicant of outstanding potential with a demonstrated interest in basic or translational research pertinent to anesthesiology who employs modern molecular neuroscience techniques. Development of an independent extramurally funded research program and a desire to participate in a program project grant are required. A joint appointment with a basic science department will be arranged for qualified candidates. Send curriculum vitae, description of research and teaching experience with addresses of three references by March 30, 2000, to: **Dr. Jay Yang, Chair Search Committee, Department of Anesthesiology, University of Rochester Medical Center, 601 Elmwood Avenue, Box 604, Rochester, NY 14642.** *The University of Rochester is an Equal Opportunity/Affirmative Action Employer.*

DIRECTOR, BIOCHEMISTRY INSTRUMENTATION AND COMPUTATION

Applicant must have expertise in Silicon Graphics to develop workstations and be experienced in NMR spectroscopy. May collaborate on research projects and possibly apply for non-tenure faculty rank. Ph.D. degree or equivalent work experience. Send curriculum vitae to: **Dr. Michael A. Weiss, Department of Biochemistry, School of Medicine, Case Western Reserve University, Cleveland, OH 44106-4935.** *CWRU is an Equal Opportunity/Affirmative Action Employer and encourages the applications of qualified women and minorities.*

NEUROSCIENTIST: Available immediately on NIH-funded project to study feeding signal transduction of neuropeptide Y. Candidates with Ph.D. or M.S./B.S. with relevant experience may apply. Experience in ICV cannula and delivery of peptides/immunohistochemistry/neuroanatomy/CRE transcription factors/molecular biology experience would be advantageous. Initial one year appointment may be renewed for two more years. Send curriculum vitae to: **Dr. Sulaiman Sheriff, e-mail: sherifs@email.uc.edu or FAX: 513-558-0750. Department of Surgery, 231 Bethesda Avenue, Cincinnati, OH 45267.**

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR GENOMICS/MOLECULAR GENETICS OF REPRODUCTION POSITION

Washington State University, School of Molecular Biosciences, announces a position for a Genomics/Molecular Geneticist specializing in Reproductive Biology. This is a tenure-track appointment at the Assistant or Associate Professor level. This position is for a Genomics and/or Molecular Geneticist in the newly-formed School of Molecular Biosciences with an affiliation with the Center for Reproductive Biology. The candidate will utilize genomics and/or molecular genetics approaches to address important aspects of mammalian reproduction. The areas can include, but are not limited to; reproductive cancer (e.g., breast, ovary, prostate), gametogenesis, male and female gonadal development and function, uterine biology, reproductive endocrinology and toxicology. State-of-the-art genomics/molecular genetics techniques used in the research can include, but are not limited to: positional cloning, array technology, chromosomal genomic hybridization, or transgenics. Requirements include: Ph.D. with expertise in genomics/molecular genetics; postdoctoral experience in relevant field; ability to teach genomics/molecular genetics at the undergraduate and graduate levels; and ability to obtain external funding. The faculty member will join a new School of Molecular Biosciences composed of programs in biochemistry/biophysics, genetics and cell biology, biotechnology, and microbiology. Collaborations and interactions are expected with members of the School of Molecular Biosciences ([website: http://molecular.biosciences.wsu.edu](http://molecular.biosciences.wsu.edu)) and Center for Reproductive Biology ([website: http://www.crb.wsu.edu](http://www.crb.wsu.edu)). Review of applicants will begin January 15, 2000, and will continue until the position is filled. The application should include a cover letter that indicates rank sought and qualifications, a curriculum vitae, description of teaching experience, summary of research interests and potential projects, and request three letters of recommendation to be forwarded separately. Mail application materials to: **Michael K. Skinner, Chair, Genomics Search, Center for Reproductive Biology, School of Molecular Biosciences, Washington State University, Pullman, WA 99164-4231. E-mail: skinner@mail.wsu.edu.**

Washington State University is an Equal Opportunity/Affirmative Action Educator and Employer. People of color, women, persons of disability, Vietnam-era and disabled veterans, and/or persons between the ages of 40 to 70 are encouraged to apply.

PATHOLOGIST OR MOLECULAR/CELLULAR BIOLOGIST: The Pathology Division seeks a researcher for independent and collaborative research with an interdisciplinary Cardiovascular and Renal Research Focus Group. Broad knowledge and experience in molecular methods is required. Expertise in viral gene delivery methodologies is highly desirable. 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

BURROUGHS WELLCOME FUND

Up to \$2.5 million for innovative training programs that apply knowledge and experience of the physical, chemical and computational sciences to the biological sciences.

Open to U.S. and Canadian institutions.

The application deadline: April 10, 2000.

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

21 T.W. Alexander Drive
P.O. Box 13901
Research Triangle Park, NC 27709-3901
Tel (919) 991-5100 Fax (919) 941-5884
www.bwfund.org

CROSS-DISCIPLINARY
FUNDING OPPORTUNITY

INTERFACES BETWEEN THE PHYSICAL/CHEMICAL/COMPUTATIONAL SCIENCES AND THE BIOLOGICAL SCIENCES

The Burroughs Wellcome Fund will award from \$150,000 to \$500,000 per year for five years to institutions developing interdisciplinary training programs for graduate and post-doctoral students to bring quantitative and theoretical approaches into the biological arena.

BWF began the Interfaces initiative in 1996 to help institutions break down traditional academic barriers and draw the physical, chemical, and computational sciences closer to the biological sciences. Emphasis will be placed on supporting new or existing programs that change graduate and postdoctoral training in a meaningful way, as opposed to programs seeking additional funding for conventional activities.

Institutions are invited to propose graduate or postdoctoral training, or a combination of both. A doctoral degree-granting institution—including its medical school, graduate school, and all affiliated hospitals and research institutes—may submit only one application. Several affiliate organizations within an institution may join together to submit one application. Consortia representing several institutions also may submit an application, so long as one academic institution will oversee the program and administer the grant.

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



MAYO CLINIC

Division of Gastroenterology and Hepatology Postdoctoral Research Position

A postdoctoral position is available in an established and active laboratory to study molecular properties of ion channels in smooth muscle and in Interstitial Cells of Cajal, the putative pacemaker of the gastrointestinal tract. Ongoing studies include ion channel cloning, second messenger regulation and characterization of electrical properties of ion channels using intracellular recording on intact tissues and the patch clamp technique on isolated cells.

Candidates must have an M.D. or Ph.D. degree. Please send curriculum vitae and the names of three references to:

Gianrico Farrugia, M.D.
Division of Gastroenterology and
Hepatology
Mayo Clinic
200 First Street SW
Rochester, MN 55905
www.mayo.edu/research/gi_phys_lab/

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

MichiganTech

Provost and Senior Vice President for Academic and Student Affairs

Michigan Technological University announces a search for a distinguished, innovative, and nationally recognized scholar/leader to assist the University in achieving continued exceptional advancement into the next decade. The position is available as early as 1 July 2000.

Responsibilities: The Provost and Senior Vice President for Academic and Student Affairs serves as the chief academic and budget officer responsible for strategic and financial planning related to all academic, research, and student services, including graduate and undergraduate programs. The Provost serves as the Chief Executive Officer of the University in the absence of the President, Dr. Curtis J. Tompkins.

The Provost will work closely with the President, Vice Presidents, Vice Provosts, Deans, Directors, Chairs, faculty, students, and staff to promote scholarship, the growth of the University's research enterprise, and the growth of undergraduate and graduate programs within a diverse, holistic university environment that stresses the unity of teaching, scholarship, and research.

Qualifications - Candidates should possess:

- A record of significant administrative achievement, preferably at a research-oriented university or other institution;
- A demonstrated ability to communicate clearly, effectively, and collegially with the many constituencies whose contributions are required for the success of the University;
- A clear understanding of the mission of a scientific and technological institution, and a vision of how to promote a broad array of activities of national and international scope in teaching, research, and service;
- A record of teaching and scholarly or professional attainment that merits appointment as a tenured full professor within one of the University's departments, preferably demonstrated by credentials that include national or international awards or election to selective national or international societies; and
- An earned doctorate and commitment to shared governance, affirmative action, and diversity.

The University: Michigan Technological University is a comprehensive research university with 6300 undergraduate students, 700 MS and PhD students, and a reputation for exceptional instruction in science and engineering. The University is enjoying success in the growth of its research programs and capital facilities. Michigan Tech is located in the scenic Upper Peninsula of Michigan, at the base of the historic Keweenaw Peninsula near the shores of Lake Superior. Michigan Tech's 400 faculty and 1000 staff are focused predominantly on engineering and science activities in a multidisciplinary setting.

Submit nominations, inquiries, or application materials including a letter of application, vitae, and the names, addresses, and email addresses of five or more references, in confidence, to:

William M. Buleit, Chair, Provost Search Committee, c/o Human Resources
Michigan Technological University, 1400 Townsend Drive, Houghton, Michigan 49931-1295

The University is being assisted in this search by David A. Haley and Lisa Savereid, Isaacson Miller, 334 Boylston St., Suite 500, Boston, MA 02116-3805; Phone: (617) 262-6500; Fax: (617) 262-6509; Email: dhaley@imsearch.com and lsavereid@imsearch.com.

The Search Committee will begin reviewing applications on December 15, 1999 and will continue to do so until the position is filled.

Interested individuals are encouraged to visit <http://www.mtu.edu>.

Michigan Technological University is an equal opportunity, affirmative action employer/educational institution. Applications from women and minorities are encouraged.

POSITIONS OPEN

IMMUNOLOGIST

The Ben May Institute for Cancer Research The University of Chicago

The University of Chicago is seeking applicants for a tenure-track position at the **ASSISTANT PROFESSOR** level. The Ben May Institute for Cancer Research (BMICR) is a basic research unit that for 46 years has been committed to the study of cancer and immunology. The current faculty is committed to an interdisciplinary approach using established and newly-emerging biochemical, genetic, molecular, and structural biological tools to attack basic problems in cancer biology and immunology. We are seeking outstanding individuals interested in diverse aspects of immunology including, but not limited to: signal transduction, molecular immunology, and immunotherapy. The BMICR is closely interfaced with the University of Chicago Gwen Knapp Center for Lupus and Immunology Research. Additionally, the BMICR is closely affiliated with the graduate degree-granting Committees on Immunology, Virology, and the graduate program in Pathology. Candidates should have sufficient research experience to demonstrate both significant accomplishments and outstanding potential. Curriculum vitae, bibliography, a brief statement of research interest, and three letters of recommendation should be sent to: **Jeffrey Blue-stone, Chairman, Faculty Search Committee, Ben May Institute for Cancer Research, 5841 South Maryland Avenue, MC6027, Chicago, IL 60637.** Affirmative Action/Equal Opportunity Employer.

TENURE-TRACK

ASSISTANT PROFESSOR OF BIOLOGY

University of Hawaii at Hilo, **Position #82322**, College of Arts and Sciences; general funds; full-time; tenure-track; nine-month-type appointment; to begin approximately August 2000. Duties: Teach undergraduate courses in microbiology, general biology, and/or intermediate cell and molecular biology, and area of specialty; teach laboratories for the above courses; advise students; engage in scholarly activities and creative endeavors; perform service to the University and community. Minimum Qualifications: At time of appointment, Ph.D. in microbiology or closely related biological field from an accredited college or university. Desirable Qualifications: Teaching and research experience in microbial ecology and evolution, experience in using molecular genetic techniques, postdoctoral experience teaching at the college level, experience in supervising undergraduate activities, publications relevant to the specialties mentioned above. Salary: Minimum of \$32,028 per year. Applications: Send letter of application, curriculum vitae, statement of current and future professional interests, and arrange to have three letters of recommendation sent to: **Dr. Don E. Hemmes, Chair, Biology Department, University of Hawaii at Hilo, 200 West Kawili Street, Hilo, HI 96720-4091. Telephone: 808-974-7363.** Deadline: Postmarked no later than January 31, 2000. An Equal Employment Opportunity/Affirmative Action Institution.

RESEARCH ASSISTANT PROFESSOR The University of Alabama at Birmingham

University of Alabama at Birmingham Department of Physics seeks candidates for a non-tenure-earning faculty position, beginning fall 1999 at the Research Assistant Professor level. The successful candidate must have a Ph.D. in organic chemistry with at least two years of postdoctoral experience in photochemistry, organic synthesis of expanded porphyrin metal complexes, and nonlinear optical characterization using degenerate four-wave-mixing and z-scan techniques. Send curriculum vitae with names, addresses, e-mail addresses, and telephone numbers of two references to: **Dr. Chris Lawson, University of Alabama, Department of Physics, CH310-1170, 1300 University Boulevard, Birmingham, AL 35294-1170.** This position will be filled as soon as a suitable candidate is identified. University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

AVIAN ECOLOGIST

Illinois Natural History Survey

The Center for Wildlife Ecology (CWE) invites applications for a full-time position at the **ASSISTANT** or **ASSOCIATE PROFESSIONAL SCIENTIST** level. The successful applicant will conduct field-oriented research on the ecology and conservation of birds with applications to conservation and management issues in Illinois and elsewhere. Research areas may include, but are not limited to, population and community ecology, behavioral ecology, physiological ecology, conservation biology, or natural history. Candidates must hold a Ph.D. in an appropriate discipline by date of appointment, have an outstanding record of independent research, and are expected to maintain a strong, externally funded research program that complements existing strengths in CWE. The CWE Senior Staff Scientists conduct self-directed research in a broad range of disciplines relating to the ecology and conservation of birds, mammals, and wetlands. The Illinois Natural History Survey is located on the Urbana-Champaign campus of the University of Illinois. CWE scientists have full access to campus facilities and resources, and may hold affiliate appointments in university departments, teach, and supervise graduate students. Please send a cover letter, curriculum vitae, a statement of research interests, and three (3) letters of professional references to: **Sue Key, Human Resources Manager, PRF 637, Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820. Telephone: 217-244-7790; FAX: 217-333-4949.** For full consideration, applications should be received by January 20, 2000. Starting date is negotiable, but expected on or after July 1, 2000. Technical questions regarding this position should be directed to: **Dr. Edward J. Heske, Telephone: 217-244-2173; e-mail: e-heske@uiuc.edu.** The Illinois Natural History Survey is an Equal Employment Opportunity/Americans with Disabilities Act Employer.

CELL/MOLECULAR BIOLOGIST Fordham University

Individuals are invited to apply for a tenure-track position at the **ASSISTANT/ASSOCIATE PROFESSOR** level. The department has an active research program and provides excellent physical facilities, state-of-the-art equipment, a stimulating research environment, start-up funds, and competitive salaries and benefits. Preference will be given to candidates who possess expertise in the area of cell/molecular biology and have an ongoing grant-supported research effort underway. The appointee will be expected to establish an active research program and participate in teaching at the graduate and undergraduate levels. Please submit a curriculum vitae and the names and addresses of three references by 22 December 1999 to: **Dr. Berish Y. Rubin, Chairman, Department of Biological Sciences, Fordham University, Bronx, NY 10458.** Fordham University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF BIOLOGY: The Biology Department at State University of New York, Potsdam seeks applications from individuals with a Ph.D. in an area of freshwater invertebrate biology. The successful candidate will teach courses in her/his area and assist with teaching general biology, which may include teaching non-majors. Research that includes the involvement of undergraduates will also be expected. In addition, the successful candidate may teach sections of a three-semester sequence of interdisciplinary four-credit science courses (currently under development) that will be required for all future elementary and middle school teachers graduated from this college. Please send letter of application, curriculum vitae with names and telephone numbers of three references, teaching statement, and a copy (unofficial) of transcripts to: **Chair of Search Committee, Biology Department, SUNY Potsdam, Potsdam, NY 13676.** Closing date for receipt of applications is January 14, 2000. State University of New York, Potsdam is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.

POSITIONS OPEN

DIRECTOR, PLANT TRANSFORMATION FACILITY

The University of Missouri invites applications for full-time director of the new Plant Transformation Facility (PTF). Position is primarily support/service with limited research and teaching responsibilities. The successful candidate will play an integral part in interdisciplinary programs focusing on metabolic engineering, disease resistance, value-added traits and expanding the fundamental knowledge of plants via plant gene transfer technologies. The PTF Director will supervise technical support persons, oversee transformation efforts and facility budget. PTF will provide services related to transformation of model plant species as well as soybean, maize and wheat. PTF is located in the new 35,000-square-foot state-of-the-art Plant Growth and Greenhouse Facility. Technicians and operations budget are provided. Minimal Requirements: Ph.D. (or M.S. with extensive experience) in the plant sciences with experience and emphasis on plant transformation and tissue culture. Communication skills and a desire to work with a variety of researchers are essential. Competitive salary and comprehensive benefits are provided. Available: 1 January 2000 or as negotiated. Review of applications will begin 15 December 1999. Please submit a statement of experience, curriculum vitae, and names of three references (including address, telephone and e-mail) to: **Doug Randall, 117 Schweitzer Hall, Columbia, MO 65211.** The University of Missouri is an Equal Opportunity Employer.

ECOSYSTEM ECOLOGY AND MANAGEMENT

The Department of Biological Sciences at Binghamton University welcomes applications for a tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level in ecosystem ecology and management. The applicant should have postdoctoral experience, and is expected to maintain an externally funded research program that is strong in both basic science and practical applications. Specific areas include, but are not restricted to, community processes, microbial control of ecosystem processes, ecosystem responses to environmental change, and a theoretical component to the research. The successful applicant will join a department and a university with multidisciplinary interests and expertise in environmental science. Submit curriculum vitae, representative reprints, statements of research and teaching interests/experiences, and have three letters of recommendation submitted by December 15, 1999, to: **Dr. David Sloan Wilson, Department of Biological Sciences, Binghamton University, Binghamton, NY 13902-6000.** Binghamton University is one of the four doctoral-granting campuses of the State University of New York system. Please visit our website: <http://www.binghamton.edu>. Binghamton University is an Equal Opportunity/Affirmative Action Employer.

MAMMALIAN DEVELOPMENT YALE UNIVERSITY

The Molecular, Cellular, and Developmental Biology Department of Yale University invites applications for a tenured appointment at the level of **ASSOCIATE** or **FULL PROFESSOR** in the area of Mammalian Development. We see scholars with a record of outstanding achievement in research, who are also accomplished teachers at both the undergraduate and graduate level. Candidates should have a breadth of expertise in development biology, inclusive of typical and atypical growth, pattern formation, and the molecular-genetic control of developmentally relevant genes. Please send curriculum vitae, description of research interests, and at least three letters of recommendation, by February 1, 2000, to:

**Mammalian Development Search
c/o Chair, MCDB Department
Yale University
POB 208103
New Haven, CT 06520-8103**

Yale University is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are urged to apply.



The Paterson Institute For Cancer Research

GROUP LEADER POSITIONS

Ref: PI/99/17

Following the appointment of a new Director and reorganisation of current scientific programmes, the **Paterson Institute** is embarking on a major programme of recruitment for Group Leaders. Over the next three years we aim to appoint several outstanding scientists to run independent research programmes. Group Leader positions will be for six years with consideration for promotion to a tenured Senior Group Leader position after four-five years. However, direct appointment at a more senior level may be considered for exceptional applicants. Recruitment is coordinated with parallel recruitment in cancer biology in the **School of Biological Sciences** at The University of Manchester. There are also opportunities for candidates with appropriate interests for joint appointments with the Faculty of Medicine, Dentistry and Nursing.

The Paterson Institute is one of the UK's biggest independent cancer research institutes with significant core funding from the Cancer Research Campaign. It is closely associated with the Christie Hospital NHS Trust, the largest specialist cancer hospital in the UK. The Institute currently has a number of basic and translational research programmes, information on which can be found at <http://www.paterson.man.ac.uk/>

Good laboratory space, core personnel (including post-doctoral research fellows and graduate students), and funding for laboratory equipment and consumables will be available for successful applicants, together with access to a wide range of core service facilities, including a newly refurbished transgenic facility. During this initial phase of recruitment, we are particularly interested in the areas of:

Stem Cell Biology

Angiogenesis

Oncogene & Tumour Suppressor Gene Function

Cellular Response Mechanisms

Genome Instability

Cell Cycle & Checkpoint Regulation

However, outstanding candidates in other areas of cancer research will also be considered.

SENIOR LECTURER/GROUP LEADER: GENE THERAPY

Ref: PI/99/18

The **Paterson Institute** and The University of Manchester's **Faculty of Medicine, Dentistry & Nursing** aim to appoint a tenure-track scientist to run an independent programme of research in basic or applied aspects of Gene Therapy. The joint appointee will be located within the Institute, have full access to the excellent core facilities and services and would be eligible for core funding. Further information about the Faculty of Medicine, Dentistry & Nursing can be found at <http://www.medicine.man.ac.uk/> or from the Dean of the Faculty, Professor David Gordon. Tel: +44 (0) 161 275 5027.

The salaries for these positions are negotiable and will reflect candidates' experience. Applicants for all the above positions should quote the relevant reference number and forward by post or e-mail, a CV, a short summary of past and current interests, a description of future research ideas and the names of three referees to:

Professor Nic Jones, Director, Paterson Institute for Cancer Research, Christie Hospital NHS Trust, Wilmslow Road, Manchester M20 4BX. E-mail: njones@picr.man.ac.uk

School Of Biological Sciences

LECTURESHIPS/SENIOR LECTURESHIPS IN CANCER BIOLOGY

Ref: 823/99

To enhance existing research programmes and strengthen the interaction between the two institutions, the School of Biological Sciences and the Paterson Institute are recruiting to tenure track positions in the area of cancer biology. Successful candidates would be located in the School or in the Paterson Institute and, where appropriate, joint positions would be considered. The School already has major research programmes in areas of cell, molecular and organismal biology related to cancer and wishes to strengthen these by recruiting outstanding individuals researching any aspect of cancer biology, but particularly:

Cell cycle & Checkpoint regulation

Cell adhesion & Metastasis

Apoptosis

Genome instability

Information on the School of Biological Sciences and an application form can be found at <http://www.biomed.man.ac.uk>

An information pack is available for this position only from the Office of the Director of Personnel, The University of Manchester, Oxford Road, Manchester M13 9PL. Tel: +44 (0) 161 275 2028; Fax: +44 (0) 161 275 2471; Minicom (for the hearing impaired): +44 (0) 161 275 7889; E-mail: personnel@man.ac.uk Web Site: <http://www.man.ac.uk> Informal enquiries may be made by E-mail to Professor Mike Grant at biosearch@man.ac.uk. The Lecturer and Senior Lecturer salary ranges are currently £17,238 to £30,065 and £31,563 to £35,670.

The closing date for applications for all posts is 17 January 2000.
Please quote appropriate ref no.

CHRISTIE HOSPITAL
NATIONAL HEALTH SERVICE TRUST



THE UNIVERSITY
of MANCHESTER

As Equal Opportunities Employers,
the University and the Trust
welcome applications from
suitably qualified people from all
sections of the community
regardless of race, religion,
gender or disability.

POSITIONS OPEN

FRESHMAN BIOLOGY COORDINATOR Department of Biology Southwest Texas State University

The Department of Biology invites applications for a tenure-track **ASSISTANT PROFESSOR** position effective 1 September 2000 (or earlier.) We seek an individual to coordinate the educational activities of our freshmen biology majors. The successful candidate will develop and coordinate innovative and exploratory laboratory activities for our two-semester sequence, integrate laboratory and lecture for these courses, and lecture as needed. We value broad training in biology, a strong commitment to teaching, and a demonstrated record of innovation in developing freshman biology courses. A Ph.D. in a biological area is required, and postdoctoral experience is desired. The person is expected to actively seek external funding to further develop our curriculum and to publish in appropriate scholarly journals. Applicants should submit a curriculum vitae, copies of up to five publications, statements of teaching and research philosophies, copies of transcripts, and a list of three references including telephone numbers and e-mail addresses to: **Francis L. Rose, Chair, (position applied for) Biology Department, Southwest Texas State University, San Marcos, TX 78666.** The Biology Department consists of 33 faculty, 100 graduate students, and 1400 undergraduate majors. Southwest Texas State University, a state university with 21,700 students, is located at the headwaters of the San Marcos River between Austin and San Antonio. More can be learned about the department at [website: http://www.bio.swt.edu](http://www.bio.swt.edu). Review of applications begins on January 1, 2000, and will continue until a suitable candidate is found. *Southwest Texas State University is an Affirmative Action/Equal Opportunity Employer, and is committed to increasing the number of women and minorities in faculty and administrative positions.*

The College of Biology and Agriculture at Brigham Young University is searching for a **GENETICIST** for a full-time tenure-track faculty position to begin September 1, 2000. The successful candidate will teach general genetics to undergraduate students and develop a research program in genetics. A Ph.D. with postdoctoral experience or equivalent is required. Areas of specialization might include transmission genetics, quantitative genetics, population genetics, human genetics, cytogenetics and genomics. Send letter of interest to: **Randy Bennett, Department of Zoology, Brigham Young University, Provo, UT 84602 (e-mail: Randy_Bennett@byu.edu)** before December 15, 1999. Do not send any other materials at this time. *Brigham Young University, an Equal Opportunity Employer, is sponsored by The Church of Jesus Christ of Latter-day Saints and requires that all faculty members observe Church standards including strict grooming, moral and health codes. Members in good standing of the sponsoring Church are encouraged to apply.*

Two **POSTDOCTORAL POSITIONS** are available immediately for highly motivated and independent scientists with a strong background in molecular and cellular biology, to conduct research in the fields of endocrinology and reproductive biology, dealing with the effects of drugs/chemicals on signal transduction pathways and biological functions. Experience with *in vivo* models is desirable. Please send curriculum vitae, brief statement of research interests, and contact information for three references to: **Drs. V. Papadopoulos and/or M. Culty, Department of Cell Biology, Georgetown University Medical Center, 3900 Reservoir Road NW, Washington, DC 20007, USA. FAX: 202-687-1823.**

JOURNAL EDITOR

Cancer Information Group (CIG) is seeking a medical editor to join its team. CIG is a full-service medical education company specializing in the field of oncology. Successful candidates will help develop a series of peer-reviewed journals in breast and lung cancers and lymphoma. A Ph.D. in a biomedical science and experience in medical writing is required. Send résumé and salary requirements to **Julie Ogden, at e-mail: JulieOg@baylordallas.edu** or **FAX: 214-820-8844.**

POSITIONS OPEN

APPALACHIAN STATE UNIVERSITY DEPARTMENT OF BIOLOGY

Appalachian State University, with an enrollment of 12,500, is one of the top comprehensive universities in the southeast. The Biology Department ([website: www.biology.appstate.edu](http://www.biology.appstate.edu)) has 21 faculty, 500 majors, and 30 graduate students and is committed to an extensive laboratory and field experience for our majors. The Department is currently conducting searches for two tenure-track faculty positions:

Freshman Biology Program Director: Primary responsibilities will be to design and implement an effective laboratory-based freshman biology curriculum for majors and nonmajors. The Director will be expected to participate in teaching lectures and laboratories in the program, develop a program of scholarship in biology involving undergraduate and graduate research, and seek extramural funding. Areas of scholarly interest may include but are not limited to: innovations in teaching methods, curriculum reform, or a subdiscipline of biology. The successful candidate must have a Ph.D. in the biological sciences and a record of accomplishment or training in biology educational program development; a demonstrated expertise in multimedia use is desirable.

Science Education: Primary responsibilities will include teaching lecture and laboratories in science-content pedagogy for K-12 pre-service teachers, managing science education laboratory facilities, developing computer technology applications for science methods courses, and supervising biology student teachers. Other expectations include: developing a research program in science education or a subdiscipline of biology, seeking extramural funding, participating in undergraduate and graduate education, and developing a close working relationship with the Appalachian Math and Science Education Center in its K-12 outreach programs. The successful candidate must have a doctorate, with graduate degrees in both life sciences and science education as well as public school teaching experience.

Submit a letter of application, curriculum vitae, description of teaching and research interests, statement of teaching philosophy, and names, addresses and telephone numbers of three references by January 15, 2000, to: **Dr. Vicki J. Martin, Chair, Department of Biology, P.O. Box 32027, Appalachian State University, Boone, NC 28608-2027. E-mail: martinvj@appstate.edu.** *Appalachian State University is an Equal Opportunity Employer.*

BIOINFORMATICS SPECIALIST

Fred Hutchinson Cancer Research Center

Bioinformatics Specialist (staff scientist) position will supply bioinformatics training and support to Center's researcher communities. Also will work closely with Center's Microarray Core Facility to identify and evaluate analysis tools pertaining to expression array data. Qualified candidates will possess a Ph.D. in molecular biology, genetics, or related field, with experience working with existing bioinformatics tools (e.g., protein sequence analysis, gene structure prediction, etc.). Knowledge of relational databases and proficiency in Perl, C/C++, and/or JAVA is desired. Outstanding teamwork and communication skills are essential. Salary dependent on experience, plus benefits. Information at [website: www.fhcr.org](http://www.fhcr.org). E-mail/FAX/or mail cover letter and curriculum vitae to: **Fred Hutchinson Cancer Research Center/HR #SD-9882, 1300 Valley Street, Seattle, WA 98109. E-mail: jobresponses@fhcr.org. FAX: 206-667-4051.** *Fred Hutchinson Cancer Research Center is an Equal Opportunity Employer.*

A **POSTDOCTORAL POSITION** is immediately available to study human skeletal dysplasias and growth. Candidates should have a Ph.D. and a background in receptor tyrosine kinase signal transduction, gene expression, and cell biology research. For consideration, please send a curriculum vitae with the names of three references to: **William R. Wilcox, M.D., Ph.D., Medical Genetics, Cedars-Sinai Medical Center, 8700 Beverly Boulevard, SSB-3, Los Angeles, CA 90048. FAX: 310-423-0237; e-mail: william.wilcox@cshs.org.**

POSITIONS OPEN

A **POSTDOCTORAL SCIENTIST** position is available at the University of Wisconsin to study the mechanisms by which the microtubule arrays of the neuron are established. The work will involve all aspects of executing experiments to elucidate the cellular and molecular mechanisms by which the microtubule arrays of the neuron are established during neuronal development. This will require primary cell culture of vertebrate neurons, and a battery of microscopic assays including electron microscopy, immunocytochemistry, and live-cell imaging. The successful candidate will bring to the laboratory expertise in biochemistry and molecular biology, and these techniques will also be applied to the studies on neuronal microtubules. The position will involve formulating research questions, designing and executing the necessary experiments to resolve the questions, interpreting data, and preparing research articles for publication. Requirements include: Ph.D. in cell and molecular biology, developmental biology, neurosciences, or other related biological science area; and expertise in microscopy or molecular biology. A period of evaluation will be required. The minimum salary is \$31,200 annually with excellent fringe benefits. Actual salary will depend on qualifications. Please submit résumé and cover letter referring to **Position Vacancy Listing #35862** by December 30, 1999, to: **Dr. Peter W. Baas, The University of Wisconsin, 332 SMI, 1300 University Avenue, Madison, WI 53706-1532.** Applications may also be **FAXed** to: **608-262-7306** or sent via e-mail: pwbaas@facstaff.wisc.edu by December 30, 1999.

POSTDOCTORAL POSITIONS CRYSTALLOGRAPHY

Two NIH-funded postdoctoral positions are available immediately in the laboratory of **Dr. Thomas Hurley**, at the Indiana University School of Medicine. Both positions require previous experience in macromolecular crystallography or extensive experience in protein structure/function analysis and heterologous protein expression. Salary levels will be commensurate with experience and will match or exceed current National Research Service Award guidelines. Facilities include an R-AXIS IIC area detector with Yale focusing mirrors, eight Silicon Graphics workstations, five new Digital Alpha workstations in newly-constructed laboratory space. Current projects include alcohol and aldehyde dehydrogenases, glycogen synthetic enzymes, and signaling proteins. Interested persons are asked to send their curriculum vitae along with the names and addresses for three letters of reference to: **Dr. Thomas Hurley, Center for Structural Biology, Department of Biochemistry and Molecular Biology, 635 Barnhill Drive, Indianapolis, IN 46202-5122. E-mail: thurley@iupui.edu. Website: http://www.biochemistry.iupui.edu/personnel/Hurley/.** *Indiana University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE

Position available in an active research program focused on macrophage biology related to atherosclerosis and vessel wall disease. Training/experience in cell/molecular biology and a background in atherosclerosis-related research preferred. Stable funding and competitive compensation offered. Reply with curriculum vitae, a cover letter, and three references to: **Dr. Theodore Mazzone, Director, Endocrinology and Metabolism, Rush Medical Center, 1653 West Congress Parkway, Chicago, IL 60612.**

A **POSTDOCTORAL POSITION** open in the Research Stem Cell Laboratory at the University of California, San Diego. Research focuses on prenatal gene therapy, tolerance/immunity induction post *in utero* transplantation in a mouse model. Background in molecular biology and/or immunology required. If interested, call **Barbara at Telephone: 858-657-6790** or send curriculum vitae to **Dr. Carrier at FAX: 858-822-1111.** *The University of California, San Diego, is an Affirmative Action/Equal Opportunity Employer.*

Discover the difference YOU
can make in a child's life...



Postdoctoral Position Laboratory of Epithelial Cell Biology

A postdoctoral position is currently available in the Laboratory of Epithelial Cell Biology at the Alfred I. duPont Hospital for Children in Wilmington, DE. The primary focus of the laboratory is the regulation of chloride channel activity in cystic fibrosis and the biochemical basis for the relationship between the loss of CFTR activity and CF pathophysiology. Recent work from the laboratory has identified drugs with therapeutic potential that we are now testing in transgenic mice. The current position involves in vivo studies in transgenic animals. Expertise in the care, breeding and genotyping of mice is essential. Knowledge of electrophysiology would be helpful.

The Alfred I. duPont Hospital for Children is the pediatric teaching hospital for Thomas Jefferson University and the laboratory of Epithelial Cell Biology is part of the Department of Pediatrics. Competitive salary and benefits plans are offered. For consideration send a curriculum vitae with the names of three references to **Dr. William Reenstra, Department of Clinical Science, The Alfred I. duPont Hospital for Children, PO Box 269, Wilmington, DE 19899, wreenstr@nemours.org, or FAX (302) 651-6881.**

For more information about the Alfred I. duPont Hospital for Children and our employment opportunities, please visit our Web site at <http://www.KidsHealth.org>.

The Alfred I. duPont Hospital for Children is an equal opportunity/affirmative action employer.



CHAIRPERSON, DEPARTMENT OF CANCER GENETICS Roswell Park Cancer Institute, Buffalo, NY

Roswell Park Cancer Institute is recruiting a Chairperson for the Department of Genetics. This individual would also direct a Center for Cancer Genetics, comprised of members from several different departments at Roswell Park and at the State University of New York at Buffalo, including the following research areas: molecular & cellular biology, genetic epidemiology, and bioinformatics, in addition to genetics. A record of outstanding research accomplishments and administrative experience and the interest to develop an outstanding center in cancer genetics are prerequisites. The position represents the opportunity to build an outstanding program with exceptional resources committed to recruitment and building. Prospective candidates must have a PhD and/or MD degree and an active research program within the broad field of cancer genetics.

Roswell Park Cancer Institute is an NCI-designated Comprehensive Cancer Center that has recently completed major new construction. There is a 60,000 sq. ft. building committed for the Department of Cancer Genetics. The Institute has six basic research departments, 11 clinical departments (a 120 research bed hospital) and a vibrant Graduate Studies Division within the State University of New York at Buffalo providing a highly interactive environment for collaborative research.

Interested individuals should submit their curriculum vitae and a one or two page summary of current research interests as soon as possible to:



Dr. Jane Azizkhan-Clifford
Chairman, Search Committee for the
Chair of Cancer Genetics
Professor, Department of
Pharmacology and Therapeutics
Roswell Park Cancer Institute
Elm and Carlton Streets
Buffalo, NY 14263

The Roswell Park Cancer Institute Corporation and the
State University of New York at Buffalo are Equal Opportunity/
Affirmative Action Employers.

EUROPEAN OPPORTUNITIES



Universität Heidelberg

The CENTER FOR MOLECULAR BIOLOGY of the University of Heidelberg (ZMBH) invites applications for a

Full Professorship in Molecular Biology (C4)

The successful candidate will contribute to the research and teaching activities at the ZMBH which include molecular aspects of regulation of gene activity, cell differentiation and development, cell biology, biology of infectious diseases and neurobiology.

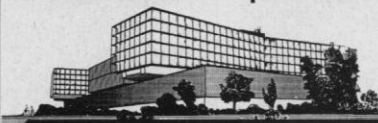
Collaboration with the research groups of the ZMBH as well as participation in the research programmes sponsored by the Deutsche Forschungsgemeinschaft (SFB) will be expected.

The ZMBH presently houses 15 independent research groups and offers an excellent research environment including central facilities for biomolecular chemistry, biocomputing, animal house with transgenic services, as well as centralized administration and technical services.

Research and teaching programmes are summarized at the ZMBH's web-site (<http://www.zmbh.uni-heidelberg.de>).

Applications should be received by the Director of the ZMBH, Prof. Dr. Dr. h. c. Konrad Beyreuther, Im Neuenheimer Feld 282, D-69120 Heidelberg, Germany, not later than January 10, 2000.

Freie Universität Berlin – Fachbereich Humanmedizin
Universitätsklinikum Benjamin Franklin



MDC

The Medical Faculty of Freie Universität Berlin (Benjamin Franklin Medical Centre) and the Max Delbrück Center for Molecular Medicine (MDC) Berlin-Buch invite applications for the following position

Full Professorship (C 4) in Molecular Cardiovascular Research (as tenured faculty member of Freie Universität Berlin [Benjamin Franklin Medical Centre] and the MDC)

Code number: 1476/99

Research area: Research and teaching in one of the following areas: cell biology, developmental biology, molecular biology or genetics of cardiovascular diseases. According to the cooperation agreement the appointee is required to teach at least one course per semester (2hr/week).

Required qualification: According to § 100 Berlin University Law (BerHG): "Habilitation" or equivalent scientific achievements.

Desired qualification: Applications should have a strong background and an international reputation in the respective field. Expertise in genetic animal models of human disease is welcome.

Appropriate space, positions, and funds for a laboratory and its operation will be provided by the MDC, application for extramural funding from other sources is expected. The successful applicant will be specifically encouraged to engage in collaborative research with interested clinicians at the Benjamin Franklin Medical Centre and the Franz Volhard Clinic for Cardiovascular Diseases at the MDC and other institutions. The Freie Universität Berlin and the MDC are equal opportunities employers and welcome applications from women.

Applications (CV, certificates, list of publications and an outline of past and future research plans) should be sent within 4 weeks to

Dekan des Fachbereichs Humanmedizin Mr. Prof. Dr. Martin Paul
Universitätsklinikum Benjamin Franklin
Hindenburgdamm 30, D-12200 Berlin, Germany

POSITIONS OPEN

ICE-CORE GEOCHEMIST

The University of Maine is seeking a Quaternary Scientist with expertise in stable isotopes and ice cores. We seek a candidate whose scientific interests include the use of ice-core geochemistry to understand Quaternary environmental change and whose research interests complement the ongoing work in climate change by University of Maine faculty. The position will carry a tenure-track, **ASSISTANT PROFESSOR** faculty appointment in both the Institute for Quaternary Studies ([website: http://iceage.umeq.s.maine.edu](http://iceage.umeq.s.maine.edu)) and an appropriate academic department, with a negotiable mix of research, teaching and other academic duties. This person will also be the faculty supervisor for the Institute's Stable Isotope Laboratory—overseeing laboratory operations, generating support for the laboratory, and interacting with other Quaternary scientists, oceanographers, and geologists in an interdisciplinary research and teaching environment. The Stable Isotope Laboratory has one VG-SIRA and one VG-PRISM automated mass spectrometer. The instruments are fitted with automated sample preparation devices for high-precision measurement of carbonate materials, water, and organic material. The laboratory is also equipped with all necessary ancillary apparatus for routine analysis, and ancillary equipment and laboratory support. One full-time laboratory manager/mass spectrometer technician operates the laboratory. Qualifications for this position include: a Ph.D. in an appropriate field of quaternary science; a proven record of scholarship; a commitment to teaching excellence; the proven ability to obtain research funding; substantive field experience collecting ice cores; and significant, successful experience in the operation of a stable isotope laboratory. Applicants should send a letter of interest along with a curriculum vitae and names, addresses, and telephone numbers of three referees to:

Dan Sandweiss
Quaternary Search Committee
Institute for Quaternary Studies
Bryand and Global Sciences Center
University of Maine
Orono, ME 04469, USA

Review begins January 10, 2000 and will continue until a suitable candidate is chosen. *The University of Maine is an Equal Opportunity/Affirmative Action Employer.*

RESEARCH FELLOW

Dr. Jian-Jian Li, is seeking a highly motivated candidate to develop signal transduction research on tumor response to ionizing radiation. Candidates should have a Ph.D. and/or M.D. with a strong background in molecular biology and/or radiation biology. Salary commensurate with experience. Please submit curriculum vitae and three letters of recommendation and reference ad #JL to:

I. Abich
Academic Personnel Office
Beckman Research Institute
1450 East Duarte Road
Duarte, CA 91010
FAX: 626-256-8620

POSTDOCTORAL FELLOW/ RESEARCH ASSOCIATE

Positions are available to study the subcellular targeting and function of novel members of the Rab GTPase family or the trafficking of Alzheimer's β -amyloid precursors. For more information see [website: http://www.mco.edu/depts/biochem/research.html](http://www.mco.edu/depts/biochem/research.html). Requirements include a recent Ph.D., experience in protein chemistry, cell biology or molecular biology, and excellent communication skills. Please send curriculum vitae, summary of research interests, and names and addresses of three references to: William A. Maltese, Ph.D., Professor and Chairman, Department of Biochemistry and Molecular Biology, 3035 Arlington Avenue, Toledo, OH 43614.

POSITIONS OPEN



AxCell Biosciences Corporation is committed to charting the proteome comprehensively in order to be the premier provider of protein interaction databases for the pharmaceutical, biotechnology, veterinary, agricultural and combinatorial chemistry industries. The following high-impact, high-profile position exists at our Newton, Pennsylvania facility:

DIRECTOR, MOLECULAR BIOLOGY: Responsibilities will include organizing and planning molecular biology projects including the design and execution of experimental protocols. This individual is responsible for meeting the corporate objectives as they relate to molecular biology. A critical function will include recruiting a first-rate molecular biology staff as well as the supervision of subordinates, as well as supervising compliance with all safety regulations. This candidate will be responsible for interfacing and integrating research activities and goals with other research directors within AxCell. The successful candidate will have a Ph.D. or equivalent in molecular biology with strong scientific and managerial skills. At least ten years of experience in the industry with demonstrated outstanding productivity. Excellent communication skills required. Flexibility also a must. Strong computer skills also required. AxCell Biosciences offers a competitive salary and benefit package, and a tremendous growth potential. Please submit résumé and cover letter to: **AxCell Biosciences HR Department, 600 College Road East, Suite 3200, Princeton, NJ 08540. FAX: 609-750-8130.** *AxCell is a wholly owned subsidiary of Cytogen Corporation and an Equal Opportunity Employer. Minorities/Females/Disabled/Veterans. We regret that only those selected for further consideration will be contacted.*

FACULTY POSITION University of California, Davis

The School of Medicine is recruiting for a full-time, tenure-track faculty member at the **ASSISTANT PROFESSOR** level in the Department of Cell Biology and Human Anatomy. Applicants should have a Ph.D. or M.D. degree and at least two years of postdoctoral research experience. Important criteria are: 1) a record of excellence in research that demonstrates strong potential for building an independent, competitive research program and 2) communication skills demonstrating the potential to achieve excellence in teaching. The faculty member will be expected to learn and teach human gross anatomy to medical students. While excellence of the individual is more important than the area of research, those studies combine cellular and molecular approaches to study mechanisms of cell regulation or gene expression are especially encouraged to apply. Applicants should submit: a curriculum vitae; a synopsis of research and teaching goals; up to three representative reprints; and four letters of reference to: **Dr. Kent L. Erickson, Chair, Search Committee, Department of Cell Biology and Human Anatomy, School of Medicine, One Shields Avenue, University of California, Davis, CA 95616-8643.** The position will remain open until filled. For full consideration, applications should be received by March 1, 2000. *The University of California is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION LAB ASSISTANT POSITION Tampa Bay Research Institute

Positions available to study the molecular biology of immune active compounds and human viruses, respectively. Send curriculum vitae, three references, and description of research interests to: **Chairman, Search Committee, Tampa Bay Research Institute, 10900 Roosevelt Boulevard, St. Petersburg, FL 33716.**

POSITIONS OPEN

ASSISTANT PROFESSOR, 13, POSITION #83079, Department of Zoology, College of Natural Sciences, and the Hawai'i Institute of Marine Biology (HIMB), tenure-track in Zoology; pending position clearance and availability of funds. Appointment split 50:50 between HIMB and Zoology. The successful candidate will join an active research program in the behavior and ecology of marine organisms at the HIMB Coconut Island laboratory, the broad-based instructional faculty in Zoology and our graduate research and training program in evolution, ecology and conservation biology (EECB). Teaching responsibilities will include an undergraduate course in ethology and a graduate course in his/her specialty. **Minimum Qualifications:** Ph.D. and postdoctoral experience in an appropriate field, significant research accomplishments beyond the Ph.D., commitment to teaching undergraduate ethology, evidence of extramural research funding success, commitment to study of tropical marine animals and commitment to active participation in the EECB program. **Desirable Qualifications:** research combines a field and laboratory approach, research takes advantage of the unique opportunities offered by Hawai'i, experience with tropical marine organisms, teaching experience in an appropriate area and successful in obtaining peer-reviewed extramural research grants. Letters of application must be accompanied by a curriculum vitae, statements of research and teaching interests and commitments, reprint of up to three peer-reviewed publications, and three letters of reference. Applicants may provide the names, addresses, e-mail, and telephone contacts of additional references. Apply to: **Behavioral Ecology Search Committee, Department of Zoology, 2538 The Mall, University of Hawaii, Honolulu, HI 96822.** Continuous recruitment until position filled; only applications received by 28 December 1999 are assured of receiving full consideration. See [websites: http://www.hawaii.edu/97catalog/a&s/zool.html](http://www.hawaii.edu/97catalog/a&s/zool.html), <http://www.hawaii.edu/HIMB>, <http://www.hawaii.edu/ecb>. *The University of Hawai'i is an Affirmative Action/Equal Opportunity Institution.*

DEPARTMENT CHAIR ENVIRONMENTAL STUDIES

Baylor University invites applications for a tenure-track position at the rank of **ASSOCIATE** or **FULL PROFESSOR** to serve as Chair of the Department of Environmental Studies beginning fall 2000. The successful candidate will be a natural scientist who has experience and expertise in solving environmental problems. Knowledge of Geographical Information Systems is also desirable. Applicants must have an established research record, demonstrate a commitment to undergraduate and graduate teaching, show strong administrative and leadership skills, and complement departmental strengths. Applications will be reviewed beginning January 1, 2000. To ensure full consideration, applications must be completed by March 1, 2000. Initial applications should include a detailed letter of interest, a curriculum vitae, and names and telephone numbers of at least three references. Please send application packet to: **Dr. Lee Nordt, Chair of the Search Committee, Department of Environmental Studies, Baylor University, P.O. Box 97266, Waco, TX 76798-7266.** For further information, please refer to [website: http://www.baylor.edu/~Envir_Studies/](http://www.baylor.edu/~Envir_Studies/). *Baylor University is a Baptist university affiliated with the Baptist General Convention of Texas. As an Affirmative Action/Equal Employment Opportunity Employer, Baylor encourages minorities, women, veterans, and persons with disability to apply.*

POSTDOCTORAL POSITIONS available to study the role of src-like kinases in signaling by cytokine receptors with a focus upon the interleukin-3 and prolactin receptors. Experience with molecular/cellular approaches to understanding protein function is desirable. Send curriculum vitae and the names of three references to: **Steven M. Anderson, Department of Pathology, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Box B216, Denver, CO 80262.**



DIRECTOR – MRC HUMAN MOVEMENT AND BALANCE UNIT

We invite applications for this premier post in the neurological sciences. The Unit is located in Queen Square, London, adjacent to the Institute of Neurology. It comprises a number of international figures in basic neurophysiological and clinical neurology research and offers outstanding opportunities for interaction with other leading groups in the clinical and basic sciences. The Unit's work is directed towards studying the control of movement and balance in normal subjects, the ways in which movement and balance are disturbed in patients with neurological disease, and methods of treating and preventing such disorders.

We now seek an internationally renowned, active scientist to reinforce the Unit's current research strengths. The post requires a strong background in science relevant to movement disorders and vision in setting new strategies in this field, as well as a commitment to the pursuit of clinical applications. Support will be provided for continuation of your own research programme. You will be encouraged to integrate the Unit's research with other bioscientific investigations, particularly but not exclusively being undertaken in the Institute for Neurology, in order to maximise the use of modern technologies and the clinical relevance of the Unit's work. You will also be expected to contribute to corporate MRC scientific planning.

Strong scientific acumen, stature as a leader, and experience of, or insight into the interface between basic science and clinical practice are essential. You should have demonstrable experience of organising your own research programme and attracting outside funds, and in leading and training post-doctoral medical scientists and junior staff.

This is a tenured MRC post. The MRC is an equal opportunities employer.

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

Dr Kevin Young, Euromedica plc, 7 Heron Quays, Docklands, London E14 4JB. UK

Telephone 44-(0)171 536 7950. Fax 44-(0)171 538 8362. E-mail: kevinyoung@euromedica.com

EUROPEAN OPPORTUNITIES

Hubert Burda Foundation

Coordinator Immunotherapy

The Medical Department of the Hubert Burda Foundation, based in Munich, Germany, concentrates on supporting science and research, with particular emphasis on the treatment of oloncarcinoma.

To strengthen its in house scientific expertise, the foundation is seeking for a molecular biologist (applicants must have PhD) with a strong background in immunology, especially in the field of applied immunotherapy.

The successful applicant will be responsible for the coordination of the foundation's research promotion activities, the documentation and analysis of the world wide current efforts on immunotherapy (basic and applied/clinical research) and the establishment of an information network connecting internationally leading scientists with the foundation and its scientific board members.

The position is available immediately. The foundation will offer a competitive salary and a professional working environment. Candidates should send a CV, cover letter describing research experience and three references, no later than three weeks after publication of this advertisement, to:

Hubert-Burda-Foundation, Managing Board, Arabellastr. 17, 81925 Munich, Germany

PROGRESSIVE ACTION

Today's challenging health care industry demands innovation. At Abbott Laboratories, improving lives by advancing products and services is the foundation of our existence. And with a staff of more than 5,000 pioneering scientists, we're setting new standards in health care for the next millennium.

Help us improve lives - join Abbott as a:

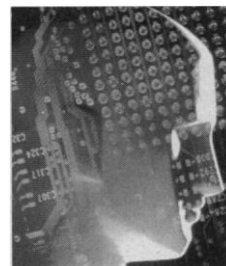
Sr. Research Microbiologist

The selected candidate will be responsible for determining structure activity relationships of novel antibacterial agents by susceptibility test methods. You will characterize the mechanisms of anti and microbiological techniques and the mode of action of antibacterial agents using molecular, biochemical and microbiological techniques. Ph.D. in Microbiology or Biochemistry along with research experience in molecular mechanisms of antimicrobial resistance and/or mechanism of action are required. Knowledge of antimicrobial susceptibility testing, characterization of antimicrobial agents, infectious diseases, and microbial epidemiology, and prior experience handling pathogenic bacterial and fungi are essential. Experience training in clinical microbiology is preferred.

Push the limits of your skills and talents with Abbott Laboratories - a company on the cutting edge of tomorrow. In return for your commitment to innovation, we offer a competitive compensation and benefits package. To learn more, or to respond online, please visit us at www.abbott.com/ad and enter Ad Code: 99-KDA3410. Or write to: Abbott Laboratories, Ad Code: 99-KDA3410, Dept. 583, Bldg. AP9A, 100 Abbott Park Road, Abbott Park, IL 60064-3537. An EOE, we are as committed to employee diversity as to our broad range of products and services.

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*At Abbott
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we're researching
and developing
health care
products that are
changing the face
of the industry.*

POSITIONS OPEN

POSTDOCTORAL POSITIONS Carbon Nanotechnology Laboratory Rice University

Several new postdoctoral research positions are expected to become available at the new Carbon Nanotechnology Laboratory of the Center for Nanoscale Science and Technology at Rice University Technology at Rice University [website: <http://cnst.rice.edu>]. The selected scientists will be expected to assist in the planning and supervision of research activities. These activities focus on development of effective technologies with fullerene nanotubes, and include research in large-scale production of fullerene nanotubes, development of new composite materials, and creation of a variety of electronic systems and devices with nanometer dimensions. We seek applications from ambitious, dedicated, self-motivated, hard-working scientists and engineers with a strong desire to participate in development of nanoscale science and technology in a university setting with strong ties to commercial and government sectors. Applicants should have backgrounds in one or more of the following areas: applied physics, electrical engineering, materials science, physics, or chemistry. The selected individuals will be expected to lead frontier efforts in the emerging nanotechnologies, and thus should possess exceptional technical and communication skills. Previous postdoctoral experience is desirable. A detailed letter of interest, curriculum vitae, and three references should be sent to: **Professor R. E. Smalley, CNST, MS-100, Rice University, P.O. Box 1892, Houston, TX 77251.** Decisions to fill these positions will be made by February 15, 2000. *Rice University is an Equal Opportunity/Affirmative Action Employer.*



RICE

EVANS-ATTWELL WELCH POSTDOCTORAL FELLOWSHIPS Nanoscale Science and Technology Rice University

We announce a competition for the new Evans-Attwell Welch Postdoctoral Fellowship in Nanoscale Science and Technology. This two-year fellowship provides for a Postdoctoral Fellow to join a research group at Rice University to pursue research in nanoscale science and technology, and carries a salary of \$40,000 per year. Candidates for this competitively-awarded fellowship must submit a research proposal and a letter of support for the candidate and the proposed research from a Rice University faculty member. Applicants also must submit a résumé and three letters of recommendation. All applications should be received by February 15, 2000, at: **The Center for Nanoscale Science and Technology, MS 100, Rice University, 6100 Main Street, Houston, TX 77251-1892.** Telephone: 713-527-4845.

POSTDOCTORAL FELLOWS UNIVERSITY OF PENNSYLVANIA

Postdoctoral positions are available to study molecular pathways of apoptosis, autoimmunity, and T cell tolerance. Website: www.med.upenn.edu/~immun/chen.htm. Experience in signal transduction or apoptosis is desirable. Send curriculum vitae to: **Dr. Youhai Chen, Institute for Human Gene Therapy, BRB-II Room 511, 421 Curie Boulevard, Philadelphia, PA 19104.** E-mail: yhc@mail.med.upenn.edu.

POSTDOCTORATES/GRADUATE STUDENTS wanted to study the molecular cell biology of newly-cloned adapter PSM and Grb10 in cancer and insulin action (see: *Nature* 324:68, 1986; *Science* 236:197, 1987; *EMBO J.* 8:2943, 1989; *J. Virol.* 68:411, 1994; *JBC* 271:8882, 1996; *J. Biochem.* 122:1105, 1997; *JBC* 273:3136, 1998; *MCB* 19: 6217, 1999) by: **Heimo Riedel, Ph.D., 2171 BIO SCI, Wayne State University, Detroit, MI 48202.** Telephone: 313-577-7870; e-mail: hriedel@sun.science.wayne.edu. *Wayne State University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITIONS AVAILABLE in the genomic approaches to multistep urinary bladder carcinogenesis The University of Texas M. D. Anderson Cancer Center

Postdoctoral positions are available to study genetic events involved in the progression of human urinary bladder neoplasia from preneoplastic conditions to invasive cancer. The main focus of the work concerns (1) completion of genome-wide model of urinary bladder cancer; (2) positional cloning of genes involved in the urinary bladder carcinogenesis; (3) development of molecular probes for early cancer detection. These positions are available immediately, and interested candidates with experience in genomic technologies should send a curriculum vitae and must arrange to have two letters of recommendation sent to: **Bogdan Czerniak, M.D., Ph.D., Department of Pathology Box 085, The University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030-4095.** *The University of Texas M. D. Anderson Cancer Center is an Equal Opportunity Employer and a smoke-free environment.*

A **POSTDOCTORAL RESEARCH** position is available immediately for studies of regulation of gene expression in animal cells. Candidates should be motivated to study functional effects of cDNA sequence changes in candidate genes for psychiatric disorders. Studies will involve a combination of biochemical and molecular biological approaches. Expertise in cell culture, cloning, mRNA analysis, protein expression systems, and signal transduction is desirable. Send research interests, curriculum vitae, and names of three references to: **Dr. Pablo V. Gejman, The University of Chicago, Jules F. Knapp Medical Research Center, 924 East 57th Street, Room R010, Chicago, IL 60637.** *The University of Chicago is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

A **POSTDOCTORAL POSITION** is available at George Washington University in Washington D.C., to study the neurophysiology of presynaptic and postsynaptic receptors, and the synaptic pathways that mediate central cardiorespiratory control. Preference will be given to candidates who have a recent Ph.D. and electrophysiological experience. Send curriculum vitae and the names of three references to: **Dr. David Mendelowitz, Department of Pharmacology, George Washington University, 2300 Eye Street N.W., Washington, DC 20037, FAX: 202-994-2870 or e-mail: dmendelowitz@hotmail.com.**

POSTDOCTORATE IN fMRI/NEUROSCIENCE

Georgetown University's Institute for Cognitive and Computational Sciences at Washington D.C., has a postdoctoral position on functional MRI of the human brain opening immediately. Applicants should contact: **Guoying Liu, Ph.D., EP-04 Research Building, 3900 Reservoir Road NW, Washington, DC 20007.** E-mail: liu@giccs.georgetown.edu. Telephone: 202-687-6901. FAX: 202-687-0617.

IntraImmune Therapies, Inc., seeks Ph.D. applicants skilled in gene delivery and molecular cell biology, or protein chemistry and antibody engineering. Experience is desirable in molecular immunology, recombinant adenovirus, or recombinant protein expression/purification. Send résumé to: **Job Code: SC1199/HR, IntraImmune Therapies, Inc., P.O. Box 15599, Boston, MA 02215-0011.**

RESEARCH ASSOCIATE

Ph.D. with experience in Molecular Biology to perform studies related to the molecular regulation of protein metabolism in intestine and muscle during sepsis and following injury. Send curriculum vitae to: **Per-Olof Hasselgren, M.D., Department of Surgery, P.O. Box 670558, Cincinnati, OH 45267-0558.**

POSITIONS OPEN

POSTDOCTORAL SCIENTIST OPTICAL PHYSICS/ENGINEERING

The Marine Biological Laboratory is seeking an experimental physicist or engineer to join in the development of a light microscope system for 3-D imaging of birefringence in biological and other specimens. The development project includes determination of the final system design, its implementation using microscope optics and liquid crystal devices for polarization analysis. The new design for 3-D imaging is based on the Pol-Scope, a technique for measuring and imaging birefringence and other optical parameters with applications in biology, medicine, material science, and industry. Applicants should submit a curriculum vitae with bibliography, name, and telephone numbers of three (3) references to: **Marine Biological Laboratory, Attn: Human Resources, Reference [PDS ADLC], 7 MBL Street, Woods Hole, MA 02543.** Telephone: 508-289-7422; e-mail: resume@mbi.edu.

An Equal Opportunity/Affirmative Action Employer/Non-smoking workplace.

TWO POSTDOCTORAL POSITIONS

We are currently seeking two postdoctoral fellows to work in the area of biomineralization and protein-interfacial interactions. Our laboratory is currently funded by the National Science Foundation and the Army Research Office, Department of Defense. One position is in the area of computational chemistry (algorithm design and programming experience in Fortran/C required), the other, nuclear magnetic resonance (biomolecular structure determination and/or pulse sequence development experience required). Salaries are negotiable. Interested candidates should submit a copy of their curriculum vitae and have three letters of recommendation forwarded on their behalf to: **Professor John S. Evans, Division of Basic Sciences, New York University, Room 1007, 345 East 24th Street, New York, NY 10010.** E-mail: jse@lennon.nyu.edu. *New York University is an Equal Opportunity Employer.*

A **POSTDOCTORAL POSITION** is available immediately to study the molecular regulation and cellular function of proteins involved in formation of Ca^{2+} signaling complexes. The successful applicant will have an outstanding opportunity to interact with many experts in this field. Applicants must have experience in molecular biology, and a background in cell signaling. Send curriculum vitae and three letters of reference to: **Dr. Shmuel Muallem, The University of Texas Southwestern Medical Center at Dallas, Department of Physiology, 5323 Harry Hines Boulevard, Dallas, TX 75235-9040.** E-mail: smuall@mednet.swmed.edu. *The University of Texas Southwestern Medical Center at Dallas is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION University of Maryland, Baltimore

Postdoctoral position is available in the Division of Endocrinology, Diabetes, and Nutrition to study the genetics of diabetes and osteoporosis. Applicants must have a Ph.D. degree in cell biology, molecular biology, or related field. Experience in gene mapping and/or functional genomics is preferred. Please send a curriculum vitae and three letters of recommendation to: **Alan R. Shuldiner, M.D., University of Maryland School of Medicine, 725 West Lombard Street (Room 5420), Baltimore, MD 21201-1192.** *The University of Maryland is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION available to study the molecular biology of metabolic bone disease. The laboratory is well-equipped, well-funded, and has a collegial environment. We prefer someone with some experience in molecular biology, cell biology, genetics, or metabolic bone disease. Please send curriculum vitae and date available to: **Dr. Michael Econs, 975 West Walnut Street, 1B445, Indiana University School of Medicine, Indianapolis, IN 46202.** E-mail: Mecons@iupui.edu.



DIRECTOR – MRC MOLECULAR HAEMATOLOGY UNIT

We invite applicants for this premier post in the haematological sciences. Located within the Institute of Molecular Medicine, Oxford – and offering outstanding opportunities for interaction with other leading groups in the clinical and basic sciences – the MRC Unit applies molecular and cellular biological research to haematological and related diseases. Under the direction of Professor Sir David Weatherall, scientists and clinicians in the Unit have pioneered seminal studies of the inherited disorders of haemoglobin, in which they have become a world authority. The Unit at present includes the National Haemoglobin Reference Laboratory.

We now seek an internationally renowned, active scientist to succeed Professor Weatherall as MRC Unit Director, on his forthcoming retirement. The post requires a strong background in science relevant to haematological diseases and vision in setting new strategies in this field, as well as a commitment to the pursuit of clinical applications. Support will be provided for continuation of your own research programme. You will be encouraged to integrate the Unit's research with other bioscientific investigations, particularly but not exclusively being undertaken in the Institute of Molecular Medicine, in order to maximise the use of modern technologies and the clinical relevance of the Unit's work. You will also be expected to contribute to corporate MRC scientific planning.

Strong scientific acumen, stature as a leader, and experience of, or insight into the interface between basic science and clinical practice are essential. You should have demonstrable experience of organising your own research programme and attracting outside funds, and in leading and training post-doctoral medical scientists and junior staff.

This is a tenured MRC post. The MRC is an equal opportunities employer.

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

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

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These activities require broad academic research experience and international relations with research institutes, motivating and negotiating abilities, capability to act on an international business and governmental level. Multilingual skills are indispensable. The position is limited to 3 years and can be prolonged upon agreement. Willingness to travel, home base is Washington DC.

Written Applications to: Dr. Stephan Bieri, CEO ETH Board, ETH Centre, CH-8092 Zurich

THE SAINSBURY LABORATORY

JOHN INNES CENTRE

***Opportunity in molecular plant pathology
for senior postdocs and faculty
(junior or senior).***

Applications are invited for the position of principal investigator in the Sainsbury Laboratory. Research in the Laboratory is based on molecular plant pathology and the successful applicant will run their own group alongside those of Anne Osbourn, Jane Parker, Martin Parniske, Mike Daniels, Jonathan Jones and David Baulcombe. There is also the opportunity to collaborate with other scientists in the John Innes Centre. Facilities in the Laboratory are excellent and the position is associated with generous core funding.

Details of the current research programmes and the Laboratory can be found on our website (<http://www.jic.bbsrc.ac.uk/welcome.htm>) or by informal contact with the current senior scientists as listed on the website.

There are no tenured posts in the Laboratory and the position is offered for five years in the first instance. The salary will be competitive by international standards. **To apply please send a full C.V. together with a summary of proposed research and the names of three referees to the Personnel Officer, John Innes Centre, Colney, Norwich, NR4 7UH quoting reference number SL/714. The closing date for applications is Tuesday January 18th 2000.**

POSITIONS OPEN

THE ROCKEFELLER UNIVERSITY CENTER FOR STUDIES IN PHYSICS AND BIOLOGY FELLOWSHIPS

The Center for Studies in Physics and Biology expects to have a small number of **POSTDOCTORAL FELLOWSHIPS** available for appointments in September 2000. We are seeking theoretical physicists, mathematicians, and computer scientists with demonstrable interest in the interface between their discipline and biology. The Fellows are to be at that stage of career as to function as independent members of the Center, free to work alone or in collaboration with any members of the Rockefeller University faculty. The appointment is nominally for two years, with a third year implicit, but based on mutual satisfaction. Applicants should submit a résumé, including list of publications, a statement and three letters of recommendation should be sent to: **Director, Center for Studies in Physics and Biology, Box 75, The Rockefeller University, 1230 York Avenue, New York, NY 10021.** Applications should be completed by January 31, 2000. *The Rockefeller University is an Equal Opportunity/Affirmative Action Employer.*

GENETIC MODIFICATION OF HEART FUNCTION

RESEARCH FACULTY and **POSTDOCTORAL POSITIONS** are available, contingent on experience, to investigate cardiac function utilizing transgenesis and DNA viral vector delivery systems (see: *PNAS* 96:11982, 1999; *JCI* 103:1459, 1999; *Nature Medicine*, Nov:1999). Individuals are sought with demonstrated interests in heart or skeletal muscle, and with expertise in the molecular, biochemical, biophysical, or physiological sciences, to join our research group. Send 1) one page summary of research accomplishments and career goals, 2) curriculum vitae, and 3) names of three references to: **Dr. Joseph M. Metzger, Department of Physiology, 7730 Medical Science II, University of Michigan, Ann Arbor, MI 48109-0622.** E-mail: metzgerj@umich.edu.

POSTDOCTORAL POSITIONS now open in **Cellular and Molecular Endocrinology** to study role of xenobiotic-activated nuclear receptors and hormone/cytokine-activated JAK/STAT signaling in the control of liver cytochrome P450 gene expression (website: http://bio.bu.edu/webdev/Faculty_Staff/djw.html). Experience in molecular biology, cell biology, or biochemistry preferred. Flexible start date. Send curriculum vitae, summary of research experience, select publications, and names of references to: **David J. Waxman, Ph.D., Department of Biology, Boston University, 5 Cummington Street, Boston, MA 02215.** E-mail: djw@bio.bu.edu.

JUNIOR FACULTY or **POSTDOCTORAL POSITION**, University of Colorado Health Sciences Center, available immediately to study signaling and transcriptional regulation of proinflammatory pathways involved in acute inflammatory lung injury. Candidates should have a strong background in molecular biology and evidence of research productivity. Send curriculum vitae and three references to: **Edward Abraham, M.D., Professor and Head, Division of Pulmonary Sciences and Critical Care Medicine, Box C272, University of Colorado Health Sciences Center, Denver, CO 80262.** FAX: 303-315-5632. E-mail: edward.abraham@uchsc.edu.

POSTDOCTORAL POSITION BIOIMAGING

Research position available in fluorescence imaging and spectroscopy—focused on biophysical applications of single-molecule studies, two-photon imaging, and near-field optics. Send curriculum vitae, a brief statement of research interests, and names of three references to: **Dr. Keith Berland, Physics Department, Emory University, 1510 Clifton Road Northeast, Atlanta, GA 30322.** E-mail: kberlan@emory.edu. *Emory University is an Equal Employment Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

INTERESTED IN CLINICAL OR POSTDOCTORAL RESEARCH TRAINING?

The National Institutes of Health has both! For more information, visit our website which lists an array of clinical and postdoctoral opportunities, including tenure-track positions. <http://www.training.nih.gov>
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TWO POSTDOCTORAL POSITIONS ELECTROPHYSIOLOGY AND EM IMMUNOCYTOCHEMISTRY

NIH-funded. Available immediately. (1) To study the role of K⁺ currents in brain slices of normal developing vestibular nuclei neurons and after vestibular lesions. Experience desirable in patch-clamp recording and pharmacological testing, with a strong background in biophysics. (2) To apply immunocytochemical methods, rapid freezing, postembedding immunogold electron microscopy to study changes in glutamate receptor subunits in normal developing vestibular nuclei neurons and after vestibular lesions. Experience desirable in transmission electron microscopy and immunocytochemistry.

Send curriculum vitae and names of three references to: **Dr. K. D. Peusner, Department of Anatomy and Cell Biology, George Washington University Medical Center, 2300 I Street NW, Washington, DC 20037.** E-mail: anakdp@gwumc.edu.

POSTDOCTORAL POSITIONS are available to study the RNA editing which alters the properties of GluR ion channels and serotonin receptors; the molecular action of ADAR gene family members involved in the RNA-editing mechanism, developmental analysis of mice with mutated ADAR gene loci, and their relevance to human neurodegenerative disease and neuropsychiatric illness. Previous experience in molecular techniques and/or with genetic manipulation of mice is essential. Send curriculum vitae, three references, and their contact numbers to: **Dr. Kazuko Nishikura, The Wistar Institute, 3601 Spruce Street, Philadelphia, PA 19104.** FAX: 215-898-3911; e-mail: kazuko@wistar.upenn.edu.

POSTDOCTORAL POSITIONS in molecular medicine for the following areas are available immediately: (a) gene therapy (naked DNA vaccination) of allergy (b) cloning and characterization of inner-ear antigens (c) signal transduction oncogenes in autoimmunity. The candidates must have strong backgrounds in molecular biology/molecular immunology/signal transduction. Please send curriculum vitae and the names of two references to: **Professor Tai June Yoo, M.D., Ph.D., University of Tennessee, Memphis, TN 38163.** Telephone: 901-448-6663; FAX: 901-448-5735; e-mail: tyoo@utmem.edu.

POSTDOCTORAL FELLOW (two-year) in Fisheries Biology/Fisheries Oceanography at Marine Conservation Biology Institute (nonprofit), Redmond, WA, USA, to develop emerging issues in marine conservation and related tasks. \$35,000 plus health insurance. Required: Ph.D. in fisheries biology, fisheries oceanography, or allied field, outstanding writing and quantitative skills, ability to work in a close-knit team at science/policy interface. Full information at website: www.mcbi.org. *Women, minorities encouraged.*

POSTDOCTORAL FELLOWSHIPS available to study the structure and function of cell adhesion receptors. Experience in protein chemistry and/or molecular biology is required. Qualified candidates should send a curriculum vitae and names of three references to: **Edward F. Plow, Ph.D., Center for Thrombosis and Vascular Biology and Department of Molecular Cardiology, The Cleveland Clinic Foundation, 9500 Euclid Avenue/NB50, Cleveland, OH 44195.** E-mail: plowe@ccf.org.

POSITIONS OPEN

A **POSTDOCTORAL POSITION** is available to work with an interdisciplinary team [professors **Banfield** (Geology and Geophysics), **Fox** (Biochemistry), and **Kaspar** (Food Microbiology and Toxicology)] on a National Science Foundation-funded project to isolate organisms and characterize the biochemistry, molecular biology, and physiology of microorganisms associated with the acidic, pyrite-rich deposits. The individual selected will investigate: i) microbial communities of acidic, metal-rich environments, ii) cellular or structural properties that permit survival in the pyrite-rich environment, and/or iii) mechanisms and the functional components of iron oxidation within the microbial communities present. A Ph.D. degree with a strong background in environmental microbiology, bacterial molecular biology, and/or protein biochemistry are necessary. Send curriculum vitae and the names of references to: **Dr. Jill Banfield, Department of Geology and Geophysics, Room 315 Weeks Hall, University of Wisconsin, Madison, WI 53706;** E-mail: jill@geology.wisc.edu.

POSTDOCTORAL POSITION THE NEUROBIOLOGY OF PARKINSON'S DISEASE

The laboratory of **Dr. Nigel T. Maidment** seeks a postdoctoral scientist to join a multidisciplinary team within the Morris K. Udall Parkinson's Disease Research Center of Excellence at The University of California, Los Angeles, directed by **Dr. Marie-Francoise Chesselet**. The project involves study of amino acid transmitter release from projections of the subthalamic nucleus in rat models of Parkinson's disease and its treatment, using microdialysis. The position is available immediately. Contact **Nigel T. Maidment, Ph.D.—e-mail: nmaidmen@ucla.edu**—supplying a curriculum vitae and the names and addresses of three references.

POSTDOCTORAL POSITION in molecular biology is available immediately to study composition, function and intracellular trafficking of a diverse population of mRNAs located in the axon and presynaptic nerve terminal. Candidates must have a Ph.D. and/or M.D. degree and have less than five years of previous postdoctoral training. A background in neuroscience with previous experience in molecular/cellular biology is required. Send letter of interest, curriculum vitae, and three letters of reference to: **Barry Kaplan, Ph.D., Laboratory of Molecular Biology, National Institute of Mental Health, Building 10, Room 4N222, Bethesda, MD 20892-1381.** E-mail: barry.kaplan@nih.gov. Telephone: 301-496-4183. *NIH is an Equal Opportunity Employer.*

The Section on Cognitive Neuroscience in the Laboratory of Neuropsychology at the National Institute of Mental Health is seeking a **POSTDOCTORAL FELLOW** to conduct research on the neuropharmacology of visual learning and memory in monkeys. Candidates should have experience in psychopharmacology or neuropharmacology. Applicants need not be U.S. citizens but must have Ph.D. or M.D. degrees and have less than five years of postdoctoral experience. Send curriculum vitae and names of three references to: **Mortimer Mishkin, Building 49, Room 1B80, 49 Convent Drive, NIH, Bethesda, MD 20892-4415.** E-mail: mm@ln.nimh.nih.gov. *National Institutes of Health is an Equal Opportunity Employer.*

A **POSTDOCTORAL POSITION** is available immediately in an exciting research environment to investigate G protein-coupled receptor mechanisms in autoimmunity. The ideal candidate should have up to four years of postdoctoral experience and up to two years in signal transduction research. Experience in recombinant DNA technology and biochemistry is required. Send curriculum vitae and names of three references to: **Joseph Holoshitz, M.D., The University of Michigan Medical Center, 5520 MSRB I, Ann Arbor, MI 48109-0680.** E-mail: jholo@umich.edu.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS IN CELLULAR AND MOLECULAR IMMUNOLOGY National Cancer Institute

Immediate openings exist for full-time postdoctoral fellowships in the Tumor Immunology Section, Surgery Branch, National Cancer Institute, National Institutes of Health, Bethesda, Maryland, to study the immune response to tumors in humans. We seek candidates with experience in cellular or molecular immunology. A background in immunology is essential. Ongoing projects include the identification of new tumor-associated antigens, the study of immune tolerance to tumor-associated differentiation antigens, and the development of synthetic and recombinant anti-cancer vaccines. Another project aims to study immune responses in breast cancer and requires a background in culture of fresh human breast cancers. Send cover letter, résumé, and statement of research interests to:

Steven A. Rosenberg, M.D., Ph.D.
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National Cancer Institute
National Institutes of Health
Building 10, Room 2B42
Bethesda, MD 20892-1502
E-mail: SAR@nih.gov

Selections for these positions will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, gender, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or nonmembership in an employee organization. NIH is an Equal Opportunity Employer.

The University of Texas M. D. Anderson Cancer Center: A **POSTDOCTORAL POSITION** is available for an outstanding candidate to establish transgenic mice models for fibrotic diseases. The scientific and interactive environment of the Department of Molecular Genetics at The University of Texas M. D. Anderson Cancer Center and at the Texas Medical Center is exceptional. Previous experience in molecular biology is required. Please send curriculum vitae and three letters of recommendation to: **Benoit de Crombrughe, M.D., Department of Molecular Genetics, University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030. Telephone: 713-792-2590; FAX: 713-794-4295; e-mail: bdecromb@mdanderson.org.** M. D. Anderson Cancer Center is an Equal Opportunity Employer.

GRANTS

NATIONAL PARKINSON FOUNDATION PARKINSON RESEARCH GRANTS 2000-2001

The National Parkinson Foundation of Miami, Florida, invites the submission of grant proposals for Parkinson research. Funding is made available to support basic bench research in Parkinson's disease and related neurodegenerative disorders. The award for a single grant will not exceed \$40,000.00. None of the monies are to be utilized for administrative overhead or travel expenses. The application deadline is February 1, 2000. Funding will be effective as of June 1, 2000, and conclude May 31, 2001. It is required that proposed studies specifically focus on mechanisms involved in the disease process and that they have the potential of finding the cause and prevention of Parkinson's disease. Scientists entering the field of Parkinson research are encouraged to apply. Proposals will be assessed by the National Parkinson Foundation Scientific Advisory Board. To obtain submission information please write or FAX to:

Paula Conley
Programs and Grants Administrator
National Parkinson Foundation
1501 Northwest 9th Avenue
Miami, FL 33136
Telephone: 305-547-6666 or 1-800-327-4545
FAX: 305-243-3049

POSITIONS OPEN

POSTDOCTORAL FELLOW IN TOXICOLOGY DuPont Haskell Laboratory for Toxicology and Industrial Medicine

DuPont, a leader in life sciences, seeks to fill an immediate opening for a Postdoctoral Fellow in biochemical toxicology. The Fellow will participate in projects that develop physiologically-based pharmacokinetic models for purposes of inter-species and high-to-low dose health risk extrapolation. This position involves *in vivo* and *in vitro* studies of the kinetics of xenobiotic biotransformation for purposes of model parameterization and validation. The successful candidate will have strong skills in biochemical toxicology, enzymology, and physiology, and experience with analytical chemistry techniques such as HPLC, GC, and mass spectroscopy. Experience with physiologically-based mathematical modeling is also desirable. DuPont Postdoctoral Fellows in toxicology enjoy a unique experience that fosters professional development in basic research while gaining hands-on experience in an industrial laboratory. Candidates should send their curriculum vitae to: **Mary Jane Hudson, Haskell Laboratory, DuPont, P.O. Box 50, Newark, DE 19714.**

EUROPEAN OPPORTUNITIES

POSTDOCTORAL POSITION NEUROPHYSIOLOGY

University of Copenhagen-Denmark

A postdoctoral position for initially two years is available to work on a project that involves characterization of the electrical properties, transmitter-modulation, and connectivity of interneurons participating in the production of locomotion in mammals. The experiments will be performed in the intact isolated neonatal rat spinal cord or slices of the cord using whole-cell recording and calcium imaging. Applicants should have a Ph.D. and experience with electrophysiology. To apply send curriculum vitae and names of two references to: **Research Professor Ole Kiehn, M.D., Ph.D., Section of Neurophysiology, The Panum Institute, Blegdamsvej 3, University of Copenhagen, Denmark. E-mail: O.Kiehn@mfi.ku.dk.**

PLANT MOLECULAR CELL BIOLOGY

POSTDOCTORAL POSITION to study resistance in plants towards insects and pathogens using wound signal transduction studies in cell cultures and Arabidopsis mutants. Experience in molecular biology and biochemistry is required. The position is for one plus one year. Information: **Dr. Johan Meijer, Plant Biology, Box 7080, Swedish University of Agricultural Sciences, SE-750 07 Uppsala, Sweden. E-mail: johan.meijer@vbiol.slu.se.**

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9:00 a.m.
Capture gel image

9:03 a.m.
Determine mass and MW

9:10 a.m.
Database results

9:19 a.m.
Prepare for presentation

Get more than just the picture

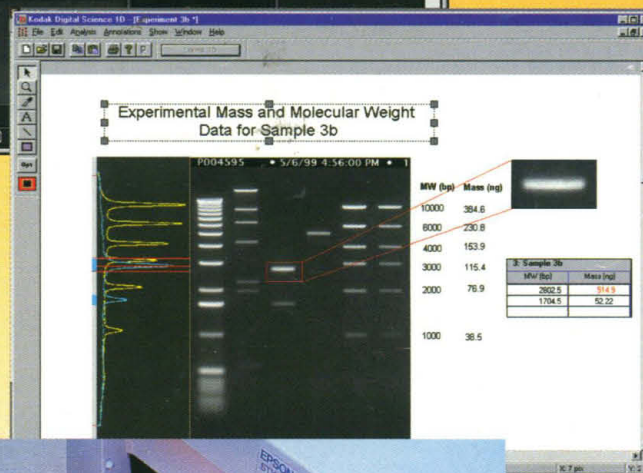
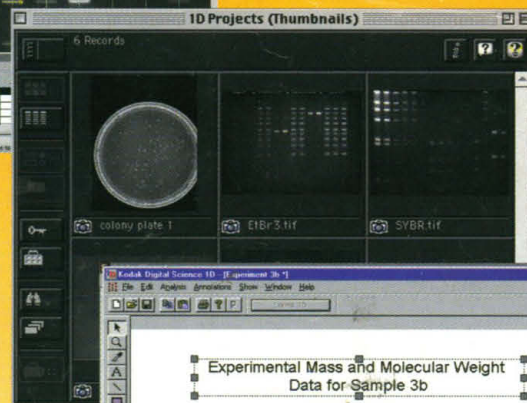
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9:42 a.m.
Publish results



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