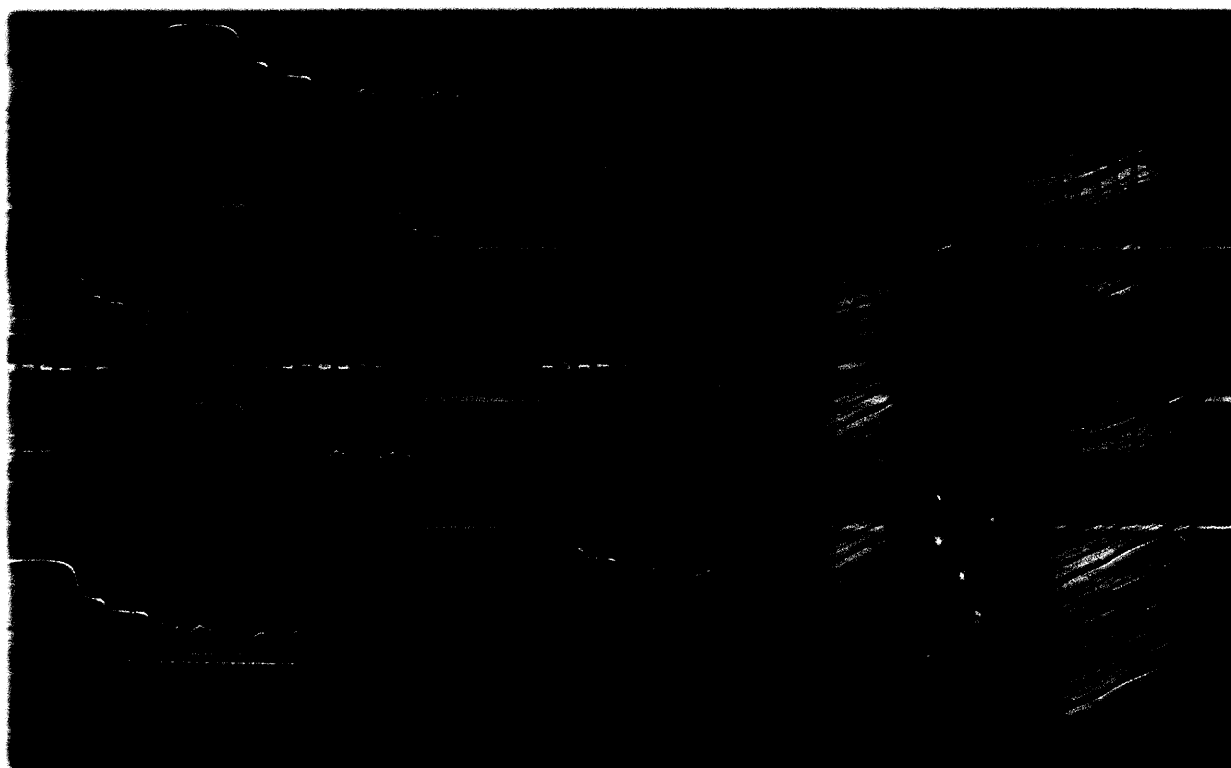


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NEW PRODUCTS

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personal computers. *Neurons in Action* is a tutorial CD-ROM from Sinauer Associates, Inc., designed to illustrate the complex functions of a single neuron. The disk contains a program called NeuroLab that provides interactive simulations of experiments, using the publicly available NEURON program (<http://neuron.duke.edu>).

The NeuroLab software, which is designed to run on Macintosh and Windows computers, can be configured to run as a helper application within popular browsers. When set up in this way, the hypertext-based tutorial can be viewed in the browser while the user simultaneously controls program action. Operation of the program is manipulated with the use of two "control panels," called the Panel & Graph Manager (PGM) and the Run Control windows, that appear after an appropriate button in the browser is clicked. Other windows, such as the Stimulus Control window, may become visible, depending on the tutorial chosen or principle being illustrated. The PGM window allows users to select the operations or plots to be performed. The Run Control window permits one to set voltages, times, and to reset and run the program under the defined parameters.

Tutorials are organized into three levels of complexity. The first deals with introducing the principles of membrane resting potential and action potential in passive, unmyelinated, and myelinated axons. The second illustrates patch voltage clamps (a means of monitoring nerve potential), threshold (conditions required for neuronal firing), and refractoriness (period of time a nerve impulse inhibits subsequent impulses). In this level, users can also learn how the action potential varies when an axon changes in diameter or channel density. The third set of tutorials deals with the postsynaptic potential, postsynaptic interactions, initiation and propagation of signals in neurons, synaptic integration, and presynaptic terminals.

Plots of electrochemical potentials vary according to user-defined conditions. The tutorials facilitate learning by guiding users to change parameters in meaningful ways. The large number of controls available turn the program into a tool useful for researchers, as well as for beginning students.

NeuroLab has some shortcomings. Its interface is not intuitive; it will not permit users to superimpose plots after changing parameters, which makes it impossible for students to see subtle changes that result from their actions. Better integration between the hypertext and NeuroLab operations would also be welcome, and might make the program more useful for novices.

Overall, *Neurons in Action* tackles a complicated subject in an ambitious way. It will best be used by students with a basic understanding of neurotransmission.

Neurons in Action operates best on a PC that runs at minimum Windows 95, 98, or NT with a 486 processor that has 32 MB RAM and a 4X CD-ROM drive or a Macintosh 7.0 with a PowerPC processor that has 8 MB RAM and a 4X CD-ROM drive.

—Kevin Ahern

Department of Biochemistry and Biophysics, Oregon State University, Corvallis, OR 97331, USA. E-mail: ahernk@onid.orst.edu

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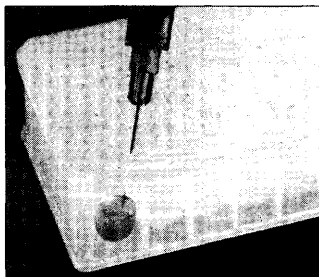
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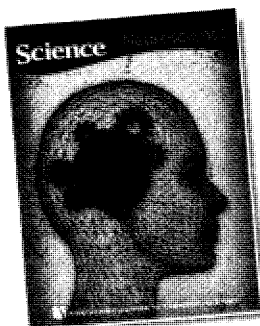
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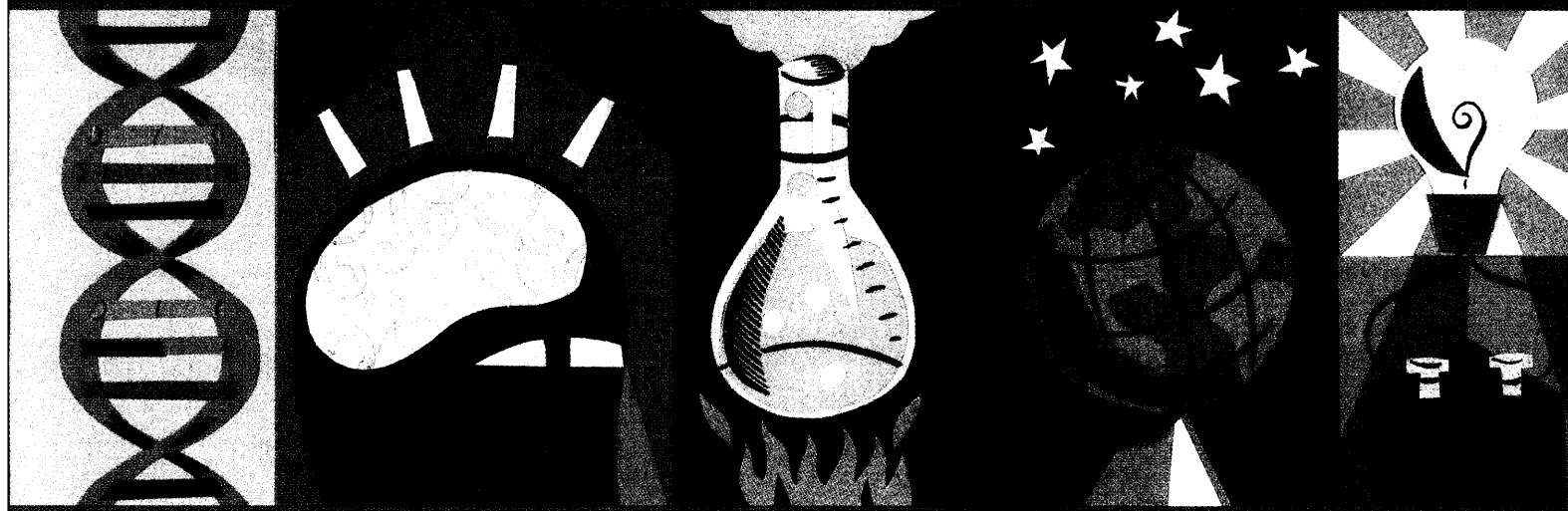
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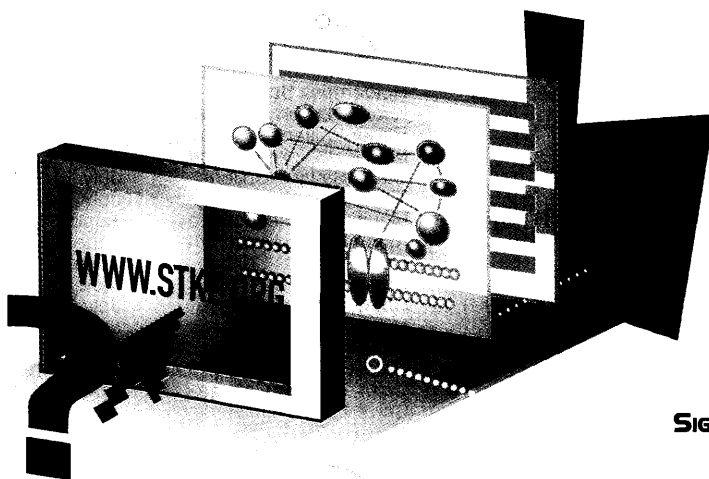
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Conference Title	Chair	Location	Date
Angiotensin	Allessandro M Capponi	Il Ciocco	May 5-10
Biogenic Hydrocarbons & the Atmosphere	Rainer Steinbrecher & Guenther Seufert	Queen's College	September 1-6
Chemical Oceanography	Henry Elderfield	Queen's College	August 11-16
Combinatorial Chemistry	Kevin Burgess	Queen's College	July 7-12
Complex Fluids	Armand Ajdari	Queen's College	June 30-July 5
Green Chemistry	James K Bashkin & Adrian P Kybett	Queen's College	September 8-13
Illicit Substance Detection: Drugs	Harry Martz & Andre H Lawrence	Queen's College	July 21-26
Ligand Recognition & Molecular Gating	Gebhard F Schertler	Il Ciocco	May 26-31
Macromolecular Organization & Cell Function	Brenda Winkel-Shirley & Kevin M Brindle	Queen's College	August 4-9
Magnetic Nanostructures	Robert J Celotta	Il Ciocco	May 12-17
Mammary Gland Biology	Clive Dickson	Il Ciocco	April 28-May 3
Mitochondria & Chloroplasts	Eric A Shoubridge	Queen's College	August 25-30
Molecular & Cellular Neurobiology	Nancy Ip	HKUST, Hong Kong	June 2-7
Neuroethology: Behavior, Evolution & Neurobiology	Harold Zakon	Queen's College	August 18-23
Organic Structures & Properties	Yoshinori Naruta	SPRING 8, Japan	July 28-August 2
Oscillations & Dynamic Instabilities in Chemical Systems	Stefan C Mueller	Queen's College	July 28-August 2
Photosensory Receptors & Signal Transduction (<i>NEW</i>)	John L Spudich	Il Ciocco	May 19-24
Rock Deformation	Ernie Rutter	Il Ciocco	May 19-24
Salt & Water Stress in Plants	Paul M Hasegawa	Queen's College	July 14-19

2002 SUMMER

CONNECTICUT/MAINE/MASSACHUSETTS/NEW HAMPSHIRE/RHODE ISLAND

Conference Title	Chair	Location	Date
Adhesion, Science of	Manoj K Chaudhury	Tilton School	August 11-16
Atomic & Molecular Interactions	Albert Wagner	Roger Williams University	July 7-12
Bacterial Cell Surfaces	Andrew Wright & Hajime Tokuda	Colby-Sawyer College	June 23-28
Barriers of the CNS	David J Begley	Tilton School	June 23-28
Basement Membranes	Leena Bruckner-Tuderman	Holderness School	June 9-14
Biocatalysis	Jon D Stewart & Paul E Swanson	Kimball Union Academy	July 7-12
Bioelectrochemistry	Raphael C Lee	Mount Holyoke College	July 21-26
Biomaterialization	Steve Weiner	Colby-Sawyer College	August 11-16
Bioorganic Chemistry	Mark D DiStefano & Adrian Whitty	Proctor Academy	June 9-14
Biopolymers	Dorothy A Erie & Jonathan Widom	Salve Regina University	June 16-21
Cancer	Eric R Fearon	Salve Regina University	August 4-9
Cardiac Regulatory Mechanisms	R. John Solaro	Connecticut College	July 28-August 2
Catalysis	Jingguang G Chen	Colby-Sawyer College	June 23-28
Cell Biology of the Neuron	Pietro DeCamilli & Cornelia Bargmann	Salve Regina University	June 30-July 5
Cell Death	Sally Kornbluth	Colby College	June 16-21
Cellular & Molecular Mycology	Matthew S Sachs & Regine Kahmann	Holderness School	June 16-21
Ceramics, Solid State Studies in	Rajendra K Bordia	Kimball Union Academy	August 11-16
Chemical Physics Gordon-Kenan Summer School	Shaul Mukamel	Roger Williams University	June 16-28
Chemotactic Cytokines	Philip M Murphy	Mount Holyoke College	July 7-12
Chemotherapy of Experimental/Clinical Cancer	Robert A Kramer	Colby-Sawyer College	July 14-19
Chromatin Structure & Function	C. David Allis	Tilton School	July 7-12
CO ₂ Fixation & Metabolism in Green Plants	Raymond Chollet & Christine H Foyer	Mount Holyoke College	August 11-16
Combinatorial & High Throughput Materials (<i>NEW</i>)	Radislav A Potyrailo & Eric J Amis	Kimball Union Academy	June 30-July 5
Computational Chemistry	Bernard R Brooks	Colby-Sawyer College	June 30-July 5
Correlated Electron Systems	Meigan Aronson & Allan MacDonald	Colby College	June 29-July 3
Corrosion - Aqueous	Patrick J Moran	Colby-Sawyer College	July 14-19
Cyclic Nucleotide Phosphodiesterases	Sharron Francis & Eva Degerman	Mount Holyoke College	June 23-28
Diffraction Methods in Structural Biology	Michael Chapman	Connecticut College	July 14-19
Drug Metabolism	Jack P Uetrecht	Holderness School	July 14-19
Electrodeposition	Daniel Schwartz	Colby-Sawyer College	August 11-16
Electron Donor Acceptor Interactions	Ana L Moore, Devens Gust & Thomas A Moore	Salve Regina University	August 11-16
Electronic Processes in Organic Materials	Gerald J Small	Salve Regina University	July 21-24
Energetic Materials	Thomas P Russell	Tilton School	June 16-21
Environmental Bioinorganic Chemistry (<i>NEW</i>)	Edward I Stiefel & Francois Morel	Proctor Academy	June 16-21
Environmental Endocrine Disruptors	Ana M Soto	Mount Holyoke College	July 14-19
Environmental Sciences: Water	Dominic M DiToro	Holderness School	June 23-28
Enzymes, Coenzymes & Metabolic Pathways	Karen N Allen & Paul F Fitzpatrick	Kimball Union Academy	July 21-26
Flow & Transport in Permeable Media	Kishore K Mohanty	Proctor Academy	August 4-9
Frontiers of US Science & Technology Policy	Daryl Chubin & John F Elter	Connecticut College	July 28-August 2

Conference Title	Chair	Location	Date
Fuel Cells	Thomas A Zawodzinski & Andrea E Russell	Roger Williams University	July 28-August 2
Genomics & Structural/Evolutionary Bioinformatics (NEW)	Andrey Rzhetsky, Conrad Gilliam & Takashi Gojobori	Mount Holyoke College	July 28-August 2
Granular & Granular-Fluid Flow (NEW)	Troy Shinbrot, Lev S Tsimring & Benjamin Glasser	Holderness School	June 30-July 5
Hemostasis	David Ginsburg	Colby College	July 7-12
Heterocyclic Compounds	William V Murray	Salve Regina University	July 7-12
High Pressure, Research at	Paul F McMillan	Kimball Union Academy	June 23-28
High Temperature Materials, Processing & Diagnostics	Theodore M Besmann	Colby College	August 4-9
Hormonal & Neural Peptide Biosynthesis	Gary Thomas	Colby-Sawyer College	July 21-26
Hormone Action	Christopher K Glass	Kimball Union Academy	July 28-August 2
Host-Parasite Interactions, Biology of	Norma W Andrews	Salve Regina University	June 16-21
Immunochemistry & Immunobiology	Marc K Jenkins	Proctor Academy	August 18-23
In Vivo Magnetic Resonance	Christopher H Sotak	Colby-Sawyer College	July 28-August 2
Industrial Ecology	David T Allen	Colby-Sawyer College	June 9-14
Innovations in College Chemistry Teaching	Melanie M Cooper	Connecticut College	June 23-28
Inorganic Chemistry	Richard A Kemp	Salve Regina University	July 28-August 2
Interfaces, Chemistry at	Dennis C Prieve	Connecticut College	July 7-12
Intermediate Filaments	Pierre A Coulombe	Roger Williams University	June 30-July 5
Ion Channels	Gary Yellen	Tilton School	July 14-19
Laser Interactions with Materials	James S Horwitz	Proctor Academy	July 21-26
Lasers in Medicine & Biology	Rebecca R Richards-Kortum & Raimund Hibst	Kimball Union Academy	July 14-19
Lipoprotein Metabolism	Michael C Phillips	Kimball Union Academy	June 16-21
Lysosomes	Scott D Emr	Proctor Academy	June 23-28
Mammalian Gametogenesis & Embryogenesis	Patricia A Hunt	Connecticut College	June 30-July 5
Mechanisms of Toxicity	Ronald Hines	Connecticut College	July 21-26
Medicinal Chemistry	John E Macor	Bates College	July 21-26
Meiosis	Anne M Villeneuve	Colby-Sawyer College	August 4-9
Membrane Transport Proteins	Nancy Carrasco	Colby-Sawyer College	June 16-21
Membranes: Materials & Processes	Paul F Bryan	Connecticut College	July 21-26
Metals In Medicine (NEW)	Nicholas P Farrell, Michael J Clarke & C. Frank Shaw	Colby-Sawyer College	August 4-9
Microbial Stress Response	Gisela T Storz	Colby-Sawyer College	July 21-26
Microbial Toxins & Pathogenicity	William E Goldman	Salve Regina University	July 14-19
Molecular Basis of Microbial One-Carbon Metabolism	Colin Murrell	Proctor Academy	July 14-19
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Multiphoton Processes	Louis F DiMauro	Connecticut College	July 21-26
Muscle: Contractile Proteins	David M Warshaw & Yuichiro Maeda	Tilton School	June 30-July 5
Musculoskeletal Biology & Bioengineering	Ernst Hunziker	Colby-Sawyer College	June 9-14
Mutagenesis	Myron F Goodman	Proctor Academy	July 28-August 2
Nanostructure Fabrication	Dieter P Kern	Bates College	July 28-August 2
Natural Products	Cynthia K McClure	Tilton School	August 4-9
Neural Development	S. Lawrence Zipursky	Tilton School	July 28-August 2
Nitrogen Fixation	Brian J Hales	Salve Regina University	August 18-23
Nuclear Chemistry	Phillippe Chomaz	Colby-Sawyer College	June 30-July 5
Nucleic Acids	Jennifer A Doudna & Michael M Cox	Colby-Sawyer College	June 16-21
Organic Geochemistry	Mark A McCaffrey	Roger Williams University	June 2-7
Organic Reactions & Processes	Mukund P Sibi	Holderness School	July 28-August 2
Organometallic Chemistry	Peter T Wolczanski	Roger Williams University	July 21-26
Peptide Growth Factors	Roger J Davis	Salve Regina University	July 21-26
Photonuclear Reactions	Elizabeth J Beise	Kimball Union Academy	August 4-9
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Plant & Fungal Cytoskeleton	Liza A Pon	Mount Holyoke College	June 9-14
Plant Molecular Biology	Barbara J Baker	Proctor Academy	August 11-16
Plasma Processing Science	Javad Mostaghimi	Holderness School	July 7-12
Point & Line Defects in Semiconductors	Stefan K Estreicher	Tilton School	July 21-26
Polymer Physics	Murugappan Muthukumar	Colby-Sawyer College	July 7-12
Postharvest Physiology	Michael S Reid	Salve Regina University	August 11-16
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Proteolytic Enzymes & Their Inhibitors	James McKerrow	Proctor Academy	July 7-12
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Reproductive Tract Biology	Linda C Giudice	Colby College	June 23-28
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Solid State Chemistry I	Nathaniel E Brese	Connecticut College	July 14-19
Stereochemistry	Peter Wipf	Colby-Sawyer College	July 28-August 2
Synaptic Transmission	Dan Johnston	Salve Regina University	June 9-14
Tetrapyrroles, Chemistry & Biology of	Gloria C Ferreira	Kimball Union Academy	August 18-23
Theoretical Biology & Biomathematics	Claudia Neuhauser & Alexander Mogilner	Salve Regina University	July 14-19
Thin Film Mechanical Behavior	Robert Cook	Tilton School	June 9-14
Tribology	Irwin L Singer	Colby College	July 14-19
Vibrational Spectroscopy	Peter B Kelly	Roger Williams University	August 4-9
Visual System Development	Thomas A Reh & Nansi Jo Colley	Salve Regina University	July 28-August 2
Water & Aqueous Solutions	Pablo Debenedetti & John L Finney	Salve Regina University	June 9-14
Zeolitic & Layered Materials	Michael J Treacy	Holderness School	August 4-9
		Mount Holyoke College	June 16-21

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POSITIONS OPEN

FACULTY POSITIONS UNIVERSITY OF WASHINGTON Department of Psychology

The Department of Psychology expects to fill two tenure-track positions in the area of developmental psychology. Appointment is anticipated at the **ASSISTANT or ASSOCIATE PROFESSOR** rank, but candidates with exceptional qualifications may be considered for appointment at the rank of **PROFESSOR**. Research specialization is open, but we are particularly interested in applicants with backgrounds in developmental behavioral neuroscience and/or infancy. Applicants are expected to have demonstrated excellence in research publication and will be expected to provide high-quality teaching at both the undergraduate and graduate levels. Candidates who fit the mission of the University's new Center for Mind, Brain, and Learning are especially encouraged to apply. The Center encourages interdisciplinary and collaborative research spanning from brain to behavior, primarily in the zero-to-five age range; **website:** <http://www.depts.washington.edu/cmb/>. To apply, send a detailed statement of research and teaching interests, curriculum vitae not more than four reprints or preprints, evidence of teaching effectiveness, and at least three letters of recommendation to: **Developmental Psychology Search Committee, Department of Psychology, University of Washington, Box 351525, Seattle, WA 98195-1525**. Applications received by December 1, 2001, will receive full consideration. Ph.D. required by date of appointment. *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.*

ENVIRONMENTAL INSTITUTE ENVIRONMENTAL STUDIES Western Michigan University

The Environmental Institute and its Environmental Studies Program at Western Michigan University seek applications for a full-time, tenure-track **ASSISTANT PROFESSOR** position in environmental biotechnology for fall 2002. The position will be based in the Environmental Institute with a joint appointment in an appropriate department. The position requires (1) a Doctorate in cellular and molecular biology, toxicology, or a related field with an emphasis on environmental health; (2) a strong working knowledge of genomics, bioinformatics, and the use of gene chips and/or quantitative PCR; and (3) the desire to teach in an interdisciplinary environmental studies program. For full details, see **website:** <http://www.wmich.edu/env>. Please send current curriculum vitae, letter of application, statement of research and teaching goals, and three recommendation letters to: **Dr. Charles Ide, Director, The Environmental Institute, Western Michigan University, 1903 West Michigan Avenue, Kalamazoo, MI 49008-5419**. FAX: 616-387-2272; e-mail: charles.ide@wmich.edu. Review of applications will begin January 15, 2002, and applications will be accepted until the position is filled. *Western Michigan University, a student-centered research university, encourages applications from under-represented groups.*

Manhattanville College, Department of Biology, seeks two broadly trained Biologists for full-time, tenure-track **ASSISTANT PROFESSOR** positions beginning in the fall 2002 semester. Applicants must have a Ph.D. in biology and the ability to teach introductory and upper-level major courses: (1) microbiology, immunology, and biochemistry; and (2) zoology, anatomy/physiology, behavior (experience in neurobiology desired). Candidates must demonstrate excellence in teaching, scholarship, and professional development. Applications including cover letter; current curriculum vitae; and names and telephone numbers of three references must be postmarked no later than February 1, 2002, to: **Dr. Annemarie Bettica, Chair, Biology Department, Manhattanville College, 2900 Purchase Street, Purchase, NY 10577**. *Manhattanville College is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN



TENURE-TRACK FACULTY POSITIONS University of Pittsburgh School of Medicine Department of Pharmacology

Applications are invited to fill two tenure-track faculty positions in the Department of Pharmacology at the rank of **ASSISTANT or ASSOCIATE PROFESSOR**. We seek two research-oriented individuals who have Ph.D. or equivalent graduate degrees to expand our well-funded faculty. We are particularly interested in candidates with a focus on neuropharmacology but welcome applications from individuals interested in cell signaling, cell death, cancer, and drug discovery who will complement existing research interests in the Department.

We expect successful candidates to develop outstanding, independent research programs and to be committed to the teaching mission of the Department. Very competitive start-up packages are available. Interested applicants should provide a one-page statement on their proposed research, curriculum vitae, and the names and contact information of three professional references. The review of applications will begin immediately, and we expect to fill these positions by spring 2002. Application should be sent to:

Ian J. Reynolds, Ph.D.
Chair, Faculty Search Committee
Department of Pharmacology
University of Pittsburgh, School of Medicine
W1340 Biomedical Science Tower
Pittsburgh, PA 15261

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

ASSISTANT, ASSOCIATE, or FULL PROFESSOR of physiology. The Medical College of Georgia, a unit of the University System of Georgia, invites applications for tenure-track positions in the Department of Physiology beginning July 1, 2002, or thereafter. A D.V.M., M.D., or Ph.D. with postdoctoral research experience is required. Successful candidates are expected to establish active, independent programs of extramurally funded research in the areas that complement the research strengths and goals of the Department in cardiovascular physiology or neuroscience. Applicants are also expected to have teaching experience and be committed to teaching students in the schools of medicine, allied health sciences, and graduate studies. For consideration, applicants should submit curriculum vitae, a statement of research interests, and three letters of reference to: **Dr. Ralph C. Kolbeck, Search Committee, Department of Physiology, Medical College of Georgia, Augusta, GA 30912-3000**. Our review of applications will begin on February 1, 2002. Information about the Department can be obtained at **website:** <http://www.mcga.edu/SOM/PhyEndo/index.html>. *The Medical College of Georgia is an Affirmative Action/Equal Opportunity/Equal Access Institution. Women, minorities, and the disabled are encouraged to apply. (ACH# 41230; E-02177126).*

PARASITOLOGIST

The Department of Biology and Microbiology at the University of Wisconsin Oshkosh seeks a tenure-track **ASSISTANT PROFESSOR** in biology with specialty in parasitology beginning 1 September 2002. Ph.D. required; postdoctoral and teaching experience desirable. Responsibilities: teach parasitology, biology of animals, and introductory biology; develop research program in parasitology; pursue extramural funding; supervise M.S. theses. Letter of application, statements of teaching philosophy and research interests, curriculum vitae, reprints, three letters of recommendation, and transcripts to: **Chair, Department of Biology and Microbiology, University of Wisconsin Oshkosh, Oshkosh, WI 54901** by 3 January 2002. *Affirmative Action/Equal Opportunity Employer. UW Oshkosh values diversity.*

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Building D 706
D-65926 Frankfurt am Main
Germany
E-Mail:
ApplicationService.Pharma@Aventis.com

BIOLOGY SCIENTIST POSITIONS



Cumbre Inc. is a Dallas based biopharmaceutical company focused on the discovery and development of novel classes of antibacterial and antifungal agents, and was formed as a spin-off from Tularik Inc. (www.tularik.com & NASDAQ: TLRK).

We currently have a number of openings for Ph.D. level Scientists to engage in research and development programs focused on antimicrobial target validation, assay development, and mechanism of action studies for exploratory leads resulting from high throughput screening efforts. Ideal candidates will be creative and flexible scientists with significant past experience in biochemical studies of enzymes and their inhibitors, and/or molecular genetic studies of pathogenic bacteria or fungi.

Cumbre offers a competitive salary and benefits package, including participation in a company stock incentive plan. For consideration, please reference Job Code SL001 and send a cover letter and resume to:

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E-mail: jobs@cumbre.net
Fax: 214-631-4710
Home page: www.cumbre.net

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Assistant/Associate Professor Department of Neurobiology Harvard Medical School

The Department of Neurobiology at Harvard Medical School invites applicants for the position of Assistant/Associate Professor. Preference will be given to candidates who study neural circuits with innovative approaches, including molecular biology, electrophysiology, optical imaging, or MRI. We have recently established a Brain Imaging Core with facilities for small-animal MRI, optical imaging, and single and multi-photon confocal microscopy. This tenure track position offers outstanding scholarly and scientific resources in a collegial and collaborative atmosphere that includes strong ties to related departments throughout Harvard, its affiliated hospitals and the Boston neuroscience community. The position also offers the opportunity to teach exceptional graduate, medical and health science technology students with strong interests in neuroscience and related technologies. Candidates must have a Ph.D., M.D. or equivalent graduate degree. Applicants should send a letter of application, including a curriculum vitae, a brief description of research interests, and the names and contact information of at least three references to:

Neurobiology Search Committee c/o Ms. Vickie Monta
Department of Neurobiology
Harvard Medical School
220 Longwood Avenue
Boston, MA 02115

Applications must be received no later than January 5, 2002.

Harvard Medical School is an equal opportunity/affirmative action employer with an institutional commitment to diversity in its faculty.

Fred Hutchinson Cancer Research Center Faculty Position in Biostatistics/Bioinformatics

The Biostatistics Program at the Fred Hutchinson Cancer Research Center's Division of Public Health Sciences is recruiting faculty members at Assistant to Full Member level (equivalent to the Assistant to Full Professor levels at a university) in the areas of functional genomics, bioinformatics, and statistical genetics. A corresponding faculty appointment at the University of Washington, which may include teaching, mentoring graduate students and collaborative research activities, is possible depending on interests and qualifications.

Successful candidates are expected to establish a dynamic research program at the interface of biology and quantitative sciences. Specifically, we are seeking candidate(s) who will conduct a strong independent research program developing novel statistical and/or computational methods for the design of studies and analysis of data from established or emerging genomic or proteomic technologies (e.g. microarrays) and will collaborate closely with clinical and basic scientists as well as other quantitative scientists at the Center on a variety of such studies. Applicants should have a Ph.D. or equivalent advanced degree in a discipline that has a strong quantitative emphasis, such as statistics, applied mathematics, computer sciences, physics or computational biology.

Please send applications including curriculum vitae, a letter describing research interests, and have four letters of reference sent to:

Charles Kooperberg, Ph.D. (Search Chair)
Fred Hutchinson Cancer Research Center
Division of Public Health Sciences
1100 Fairview Avenue North (MP-1002)
P.O. Box 19024
Seattle, Washington 98109-1024

Review will start February 01, 2002 and continue until the position is filled.

The Fred Hutchinson Cancer Research Center and the University of Washington are Equal Opportunity/Affirmative Action Employers. Both institutions are building culturally diverse faculty and strongly encourage applications from women and minority candidates.



MAYO CLINIC CANCER CENTER

The Mayo Clinic Cancer Center announces openings for faculty positions at the Assistant, Associate, and Professor level. Qualified individuals are expected to initiate and maintain an outstanding research program and to contribute to educational activities in Mayo Graduate School and Mayo Medical School. The Cancer Center is seeking to supplement existing strengths by recruiting faculty members who are interested in the following areas:

Cell Biology and Genetics, with a focus on basic cell biological and signaling mechanisms relevant to cancer initiation or progression. Individuals with interest and expertise in functional genomics using model organisms such as mouse, yeast, fly, or worm are especially encouraged to apply.

Outstanding applicants with research interests in other areas will also be given full consideration. Successful candidates will have an opportunity to interact with basic and medical scientists in areas of cell and molecular biology, structural biology, gene therapy, and medicine. Applicants should send a curriculum vitae and a statement of research interests before March 1, 2002 to:

Ms. Kathryn Streich
Mayo Clinic
Stabile 8
200 First St. SW
Rochester, MN 55905
E-mail: streich.kathryn@mayo.edu

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Associate/Sr. Associate Scientist, Biochemistry (La Jolla, California)

You'll be responsible for conducting enzyme assays, analytical protein purification and detailed characterization of enzymes. In addition to a BS/MS in Biochemistry or Chemistry, you must have 2+ years of laboratory or industrial experience, a strong background in chemistry, math, computer and graphing programs, enzyme kinetics and protein purification/characterization. Senior applicants and candidates with experience in modern liquid handling or assay automation equipment who wish to diversify their biochemistry laboratory experience are encouraged to apply. Req. #01-0776-5V135CL

Research Scientist (Groton, Connecticut)

You'll lead efforts to identify and characterize new targets for the treatment of atherosclerosis while contributing to ongoing drug discovery programs. We require a PhD (or equivalent), 2+ years postdoctoral experience and a demonstrated understanding of the regulation of lipid and lipoprotein metabolism. Also required are a thorough knowledge of the molecular and cellular mechanisms involved in the pathogenesis of atherosclerosis and a record of independent research in an academic or pharmaceutical environment. Experience in the pharmaceutical industry (including target identification and validation, establishment of *in vitro* and *in vivo* screens and assessment of compounds) is desirable, as is supervisory experience. Req. #19Oct0108167

Assistant Scientist (Groton, Connecticut)

As part of a multi-disciplinary team, you'll help develop and use *in vivo* models to evaluate potential anticancer compounds, design and apply biochemistry and tissue culture assays for anticancer drug discovery, and help in some steps of target selection. We require a BS (MS preferred), 2+ years laboratory experience, and effective communication skills. Desirable qualifications include 2-5 years experience in *in vivo* models of human disease and experience in biochemistry, cellular biology and tissue culture. Enthusiasm, curiosity and an eagerness to design experiments collaboratively and work independently are highly desired. Req. #25Oct0108239

Assistant Scientist (Groton, Connecticut)

You'll help develop and implement methods for purifying and characterizing proteins for use as reagents and for structural studies; contribute to the biophysical characterization of solution properties of proteins; and use biochemical techniques for analyzing the structure/function relationships of proteins. You'll be applying a variety of techniques, including HPLC, FPLC, BioCAD, viscometry, fluorescence spectroscopy, light scattering and mass spectrometry. We require a BS or equivalent in Biology or a related discipline (MS preferred), 1-5 years experience and good communication skills. Req. # 01Nov0108369

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NCI SCIENTIFIC REVIEW ADMINISTRATORS

The Grants Review Branch in the Division of Extramural Activities of the National Cancer Institute (NCI), the largest component of the National Institutes of Health, has several immediate openings for **Experts** to serve as **Scientific Review Administrators** to manage all aspects of the scientific peer review process for grant applications submitted to the NCI. **Candidates should have independent research experience in current methods of cancer research in (1) Clinical immunology related to cancer pathogenesis or treatment, OR (2) Translational and/or clinical research in cancer biology, detection, diagnosis and/or treatment.** Candidates should also be familiar with the NIH grant application review and support process. These positions are based in Rockville, Maryland, a suburb of Washington DC, but some travel (site visits) will be involved.

The Title 42 Expert Appointment mechanism allows the NCI and the successful candidates additional flexibility, including:

- rapid appointment process, with relocation package;
- flexibility in setting initial compensation levels;
- initial appointments for periods up to 5 years, with unlimited extensions in increments of up to 5 years;
- more flexible levels and frequency of salary increases; and
- full comparability in fringe benefits and pension plan with the Civil Service

Salary levels will generally be in the GS 13-14 equivalent ranges, currently \$63,211- \$97,108, depending on qualifications. Applications will be accepted for consideration until the positions are filled. Please send a current CV or Resume with bibliography and references to:

Olivia Preble Bartlett, Ph.D.
Chief, Grants Review Branch
Division of Extramural Activities,
National Cancer Institute
Fax: 301-496-6497
E-Mail: op2t@nih.gov

Selection for these positions will be based on merit, with no discrimination for non-merit reasons such as race, color, gender, national origin, age, religion, sexual orientation, or physical or mental disability. The NCI/NIH is an Equal Opportunity Employer. Previous applicants do not need to reapply.



POSTDOCTORAL POSITIONS

Mayo Clinic Molecular Medicine Program
 Rochester, MN

Mayo Clinic Rochester has established a Molecular Medicine Program with several groups working on gene therapy using different viral systems. Postdoctoral positions are available immediately in the laboratory of Mark J. Federspiel, Ph.D., a faculty member of the Molecular Medicine Program. Research projects are available in two areas. One area is focused on fundamental studies of the cellular entry mechanisms of a model retrovirus, avian leukosis virus, and include structure/function analysis of the envelope glycoprotein/receptor interactions and the evolution of host range. Some of our current research is described in recent publications [*J. Virol.* 75:726-737 (2001); *Virology* 273:111-123 (2000); *J. Virol.* 73:10051-10060 (1999)]. A second research area is focused on developing a retroviral polypeptide display technology, similar to phage display, and using this technology to identify unique ligands in tumors.

Applicants must have a recent Ph.D. degree, be highly motivated, and be proficient in advanced molecular biological and tissue culture techniques. Research experience in virology, especially retrovirology, is highly desirable. Salary will be determined by the successful candidate's experience. There is also an attractive benefit package. Mayo Clinic Rochester is a not-for-profit organization. Mayo integrates research with clinical practice and education in a multi-campus environment. To apply, send a current curriculum vitae and bibliography, a summary of past research accomplishments, and the names and contact details of three references to:

Mark J. Federspiel, Ph.D.
Mayo Clinic Rochester
Molecular Medicine Program
Guggenheim 18
200 First Street, SW
Rochester, MN 55905

E-mail: federspiel.mark@mayo.edu

See also: <http://www.mayo.edu/research/mmp/>

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Biology Department of Monmouth University

Assistant Professor - Molecular Biology, Tenure Track

Required are Ph.D. in molecular biology or related area, a minimum of two years postdoctoral experience including molecular biology, and a publication record in molecular biology. Also required is evidence of ability to direct undergraduate research. The successful candidate will be expected to teach introductory biology and upper level molecular biology, both with labs. A commitment to undergraduate education is essential. Candidates are encouraged to submit a statement of teaching philosophy and/or documentation supporting past teaching effectiveness. Consideration will be given to individuals who can contribute to a potential new M.S. program in Cell & Molecular Biology. Submit a cover letter addressing the requirements and preferences specified in this ad, a curriculum vitae, a one-page summary of research interests/ plan for undergraduate research, a reprint of the candidate's most significant publication (choose one only) and a minimum of 2 letters of recommendation to Dean Francis Lutz, School of Science, Technology & Engineering, 400 Cedar Avenue, Monmouth University, West Long Branch NJ 07764. Deadline for postmark on all application materials is January 2, 2002.

Biology Instructor - Biochemistry

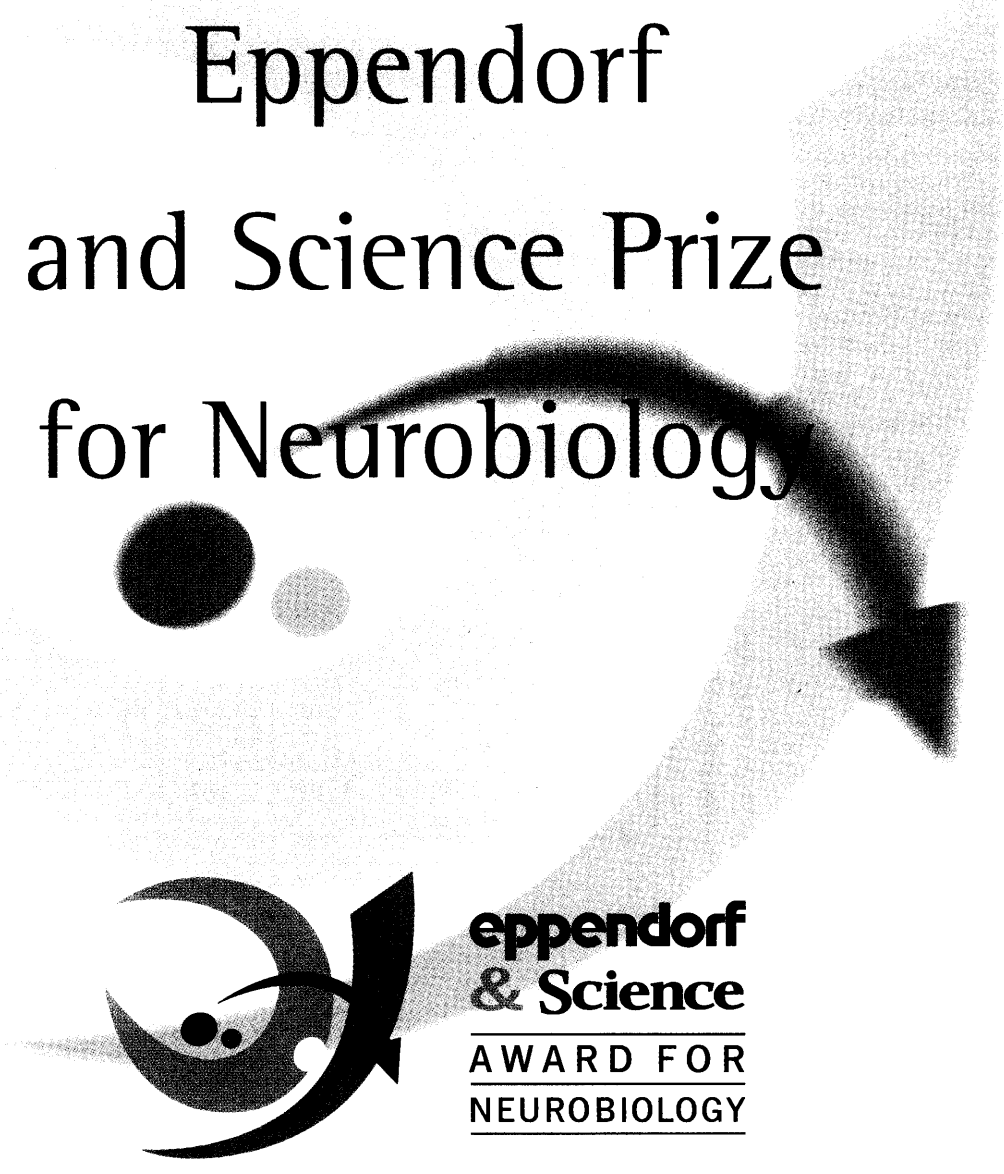
Recent Ph.D. in biochemistry or related biological science is required. The successful candidate will be expected to teach introductory biology and upper level courses in biochemistry. Preference may be given to candidates who have experience with cell culture and who can also teach cell biology. Preference will be given to candidates who can contribute to potential new programs in cell and molecular biology. This position is non-tenure track but may be renewed annually up to 4 years maximum. For consideration, submit a cover letter addressing the requirements and expectations specified in this ad, a curriculum vitae, and 2 letters of recommendation to Dean Francis Lutz, School of Science, Technology & Engineering, 400 Cedar Avenue, Monmouth University, West Long Branch NJ 07764. Deadline for postmark on all application materials is January 2, 2002.

Biology Instructor - Ecology

Recent Ph.D. in ecology, plant biology or closely related field is required. The successful candidate will be expected to teach introductory biology and ecology, and preference may be given to candidates who are also capable of teaching botany and evolution. Preference will be given to candidates who can contribute to development of a potential new program in marine and environmental biology. This position is non-tenure track but may be renewed annually up to 4 years maximum. For consideration, submit a cover letter addressing the requirements and expectations specified in this ad, a curriculum vitae, and 2 letters of recommendation, to Dean Francis Lutz, School of Science, Technology and Engineering, 400 Cedar Avenue, Monmouth University, West Long Branch NJ 07764. Deadline for postmark on all application materials is January 2, 2002.

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Eppendorf and Science Prize for Neurobiology



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**AWARD FOR
NEUROBIOLOGY**

Eppendorf AG and Science have initiated a new annual research award of \$25,000. The award acknowledges outstanding contributions to neurobiology research based on methods of molecular and cell biology.

The prize will be awarded each year in conjunction with the annual Meeting of the Society for Neuroscience.

Young Scientists who have received an advanced professional degree of either a Ph.D. or M.D. within the past 10 years are eligible.

The award winner will be selected by a committee of independent scientists chaired by the Editor-in-Chief of Science. A prize winner will be announced for the first time at the 2002 Meeting of the Society for Neuroscience.

For more detailed information please visit the Eppendorf Homepage at **www.eppendorf.com/award2002** or visit Science Online at **www.scienceonline.org**.

fellowships

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

AAAS Science + Technology Policy Fellowships, 2002:03 >>>

What >>> Help shape science and technology policy in Washington, DC: Contribute scientific and technical information and external perspectives to federal decision-making, while learning how government works. The AAAS fellowship programs provide a unique participatory public policy experience for scientists and engineers, through one-year assignments involving domestic and international science policy issues in the Congress and several executive branch agencies. Stipends begin at \$55,000.

Who >>> Applicants must have a Ph.D. or an equivalent doctoral-level degree by the application deadline from any physical, biological or social science, any field of engineering or any relevant interdisciplinary field. Individuals with a master's degree in engineering and at least three years of post-degree professional experience also may apply. U.S. citizenship is required. Federal employees are ineligible. Approximately 50 fellowships are awarded in 10 different programs. Underrepresented minorities and persons with disabilities are encouraged to apply.

When >>> The fellowship year begins September 1, 2002. Fellows attend a two-week orientation before beginning their assignments and participate in a year-long seminar series on topics relevant to science, technology and public policy. **Application deadline is January 10, 2002.**

Where >>> Fellows are placed in the Congress, the National Science Foundation, the National Institutes of Health, the Department of State, the Department of Defense, the Agency for International Development, the Environmental Protection Agency, the Department of Agriculture, the Food and Drug Administration, the Department of Justice, the Department of Energy and other federal offices.

Why >>> AAAS sponsors these programs to provide the opportunity for accomplished and societally-aware scientists and engineers to participate in and contribute to the public policy making process of the federal government. The programs include:

- | | | |
|--|---|---|
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How >>> For application instructions and further information: www.fellowships.aaas.org. AAAS Science and Technology Policy Fellowship Programs, 1200 New York Avenue, NW, Washington, DC 20005 • Phone 202/326-6700 • E-mail science_policy@aaas.org

» www.fellowships.aaas.org





**Deutsches
Krebsforschungszentrum**
Stiftung des öffentlichen Rechts

**Universität
Heidelberg**

The Deutsches Krebsforschungszentrum (DKFZ, German Cancer Research Center) and the Faculty of Medicine at the University of Heidelberg jointly offer a position for a

Full Professorship (C4) for Clinical Epidemiology

(No.: 142/2001)

The position includes directing the Division of Clinical Epidemiology within the Research Program Cancer Risk Factors and Prevention at the DKFZ, Heidelberg.

This division is presently pursuing research in cancer prevention, nutritional and genetic epidemiology. In addition, research programs are conducted on cancer screening. The program is engaged in the European Prospective Investigation into Diet and Cancer (EPIC). Personal research initiatives are desired as well as cooperation with other programs of the Cancer Center, and with clinical partners.

Applicants should possess a qualification comparable to the German "Habilitation" (Assistant/Associate Professorship). Applications from female scientists are encouraged. Following university law, assignments for professorships are initially limited to a period of usually 3 years.

The Deutsches Krebsforschungszentrum (DKFZ, German Cancer Research Center) and the Faculty of Medicine at the University of Heidelberg jointly offer a position for a

Full Professorship (C4) for Tumors caused by Infections

(No.: 144/2001)

This position includes directing a new division within the Research Program Applied Tumor Virology (ATV) at the DKFZ, Heidelberg.

Applicants should have achieved scientific excellence within relevant areas of biomedical research. Involvement in research programs in pathology, pathomechanisms and/or immunology of tumor causing agents are particularly desirable. "Habilitation" or equivalent scientific achievements are required. Applications from female scientists are encouraged. Following university law, assignments for professorships are initially limited to a period of usually 3 years.

Please send your application with a Curriculum Vitae, a list of publications, and references by 31 December 2001 to: Deutsches Krebsforschungszentrum, Wissenschaftlicher Stiftungsvorstand, Im Neuenheimer Feld 280, D-69120 Heidelberg, Germany.

UIC The University of Illinois
at Chicago

VICE HEAD FOR RESEARCH

The Department of Neurology and Rehabilitation of the College of Medicine of the University of Illinois at Chicago seeks a candidate to fill a position as Vice Head for Research. The Vice Head for Research will have overall responsibility for leading the Department's research program, setting its course and direction, and participating in the recruitment of new investigators. The successful candidate should have demonstrated research experience in the neurosciences, a doctoral degree (Ph.D. or M.D.), and a desire to assume a leadership position. The University of Illinois is committed to expanding its research in the neurosciences including the construction of 9.4 T human research MR facility. Appointment will be in the tenure track. The Vice Head for Research will have a joint appointment in an appropriate basic science department.

RESEARCH NEUROSCIENTIST

The Department of Neurology and Rehabilitation of the College of Medicine of the University of Illinois at Chicago seeks a candidate to fill a position as a research scientist. Appointment will be in the tenure track at the appropriate academic rank depending upon experience and accomplishments. The successful candidate should have demonstrated research experience in the neurosciences, a doctoral degree (Ph.D. or M.D.), and a desire to carry on a funded program of research related to the neurosciences or rehabilitation. The University of Illinois is committed to expanding its research in the neurosciences including the construction of 9.4 T human research MR facility. Other areas of interest include neuroinformatics, neural networks, cerebral reorganization, cognitive neurosciences, brain imaging, rehabilitation engineering, neural prostheses, or neurological or rehabilitation outcome research. The successful applicant will have a joint appointment in an appropriate basic science department.

Review of applicants begins immediately and interviews will continue until position is filled. Anticipated starting date is flexible. For fullest consideration, please respond by March 1, 2002. Send cover letter, vitae, and three letters of reference to: **Daniel B. Hier, M.D., Head, Department of Neurology and Rehabilitation, 912 S. Wood Street, Chicago, IL 60612. Email neuro@uic.edu. Telephone 312-996-1757.**

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Is a biopharmaceutical start-up in San Diego, CA developing new diagnostics and therapies focusing on molecular medicine based on an integrated technology platform centered around its proprietary proteomics technology. The company is implementing a new and revolutionary concept for drug development. For the realization of challenging projects the company is seeking qualified candidates for the following:

Senior Scientist/Project Leader - Bioconjugate Chemistry And Research Technician - Proteomics

Candidates for the position in bioconjugate chemistry are Ph.D. graduates with at least 3 years of post-doc experience in synthetic bioorganic chemistry. Preferred fields of expertise are in oligonucleotide/peptide synthesis, protein chemistry including proficiency in all current analytical techniques (surface modification and analysis of functional groups on biomolecules, mass spectrometry, chromatography etc.). We are looking for highly self-motivated, team oriented and forward thinking individuals who are able to cross disciplines into biochemistry, molecular biology and cell biology. As a Research Technician - Proteomics, we expect candidates with at least 3 years of experience after MS degree in the area of DNA/peptide/protein chemistry. Excellent knowledge in sample preparation, purification, characterization involving current analytical techniques (i.e. mass spectrometry, hplc), the operation of chemical/biochemical equipment including robotics and microarray applications is required. Compensation will be commensurate with the experience of the candidates. We are looking for candidates who are excited by the opportunity to participate in building a great team for a successful company in a challenging health care environment.

Applications with CV including three references should be sent to: **Human Resources, HK Pharmaceuticals, Inc., 6190 Cornerstone Court East, Suite 106, San Diego, CA 92121.**



FACULTY POSITION

The Henry Samueli School of Engineering at the University of California, Irvine invites applications for a tenure-track faculty position in **Tissue Engineering or Biomaterials** beginning July 1, 2002. This position will be at the rank of Assistant Professor, Step II, and will be a joint position between the Center for Biomedical Engineering and the Department of Chemical Engineering and Materials Science. The successful candidate will be expected to develop a rigorous extramurally funded research program. Research expertise in the areas of molecular, cellular, and biomaterials aspects of tissue engineering applied to clinical areas such as ophthalmology, cardiology, cancer, and the neurosciences are of particular interest as these areas provide exceptional opportunities for collaboration. Successful candidates will function effectively in the multidisciplinary environment of the Schools of Engineering and Biological Sciences as well as the College of Medicine and UCI Medical Center. The candidate will participate in the teaching and research activities of both the Center for Biomedical Engineering and the Department of Chemical Engineering and Materials Science. The University of California, Irvine is situated in Orange County's rapidly growing high technology sector that includes more than 150 biomedical device companies.

For full consideration, candidates should send their curriculum vitae, a brief (no more than 2 pages) description of current and future research and teaching interests, and at least three letters of reference by January 1, 2002 to:

**Search Committee Chair
Chemical Engineering and Materials Science
The Henry Samueli School of Engineering
University of California, Irvine
916 Engineering Tower
Irvine, CA 92697-2575**

Submission via electronic mail can be made to: bmei@uci.edu
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Postdoctoral Fellow Position CNS Gene Expression Profiling

A post-doctoral fellow position is available to carry out gene expression profiling of specific neuronal populations in the fly brain. The successful candidate will use existing transgenic animals to label discrete neuronal sub-types. Labeled neurons will be purified and used to identify neuronal sub-type specific gene expression patterns and to study the induction of genes in response to drug treatment. Experience in neurobiology and/or a background in fly genetics will be important.

Please send CV and names, addresses, and telephone numbers of three references to:

Dr. Monica Moore,
c/o Dianna Henderson
5858 Horton Street, Suite 200
Emeryville, CA 94608 or email
(indicate position in subject line) to:
hr@egcrc.net.



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Assistant/Associate Professor Biology Education Department of Biology Texas A&M University

This is a tenure-track position in biology and science education. Successful candidates will be expected to pursue research in the development of innovative approaches to the communication and teaching of biological science at all levels (K-12, Undergraduate, Graduate). The development of new strategies for biology communication and instruction through distance learning and information technology is a high priority. We expect successful candidates to establish a vigorous, extramurally funded research program in a specialty area in biology and education. We are particularly interested in candidates whose expertise complements existing research programs in cell and developmental biology, biological clocks, plant molecular biology, or microbial genomics.

For full consideration, applicants should submit a letter of intent stating overall qualifications and career goals, a curriculum vitae, statement of research and teaching interests, and three letters of recommendation by January 1, 2002 to: **BioEd Search Committee, Department of Biology, Texas A&M University, College Station, TX 77843-3258.**

Texas A&M is an Equal Opportunity Employer and has a policy of being responsive to the needs of dual-career couples.

PRE- & POSTDOCTORAL TRAINING IN MAMMALIAN GENETICS

The Jackson Laboratory, a non-profit research center, provides a unique research environment with unparalleled resources for training in animal models of development & disease.

Areas of expertise include:
Cancer, Developmental Biology, Aging, Genetics of Complex Traits, Genomics, Immunology/Hematology, Metabolic Diseases, Neurobiology, Bioinformatics/Statistical Genetics, Cryopreservation/Assisted Reproduction

Letters of application should include: Curriculum vitae, statement of research interests, list of publications, and names of three references. Predoctoral program is in conjunction with the University of Maine and is limited to US citizens or permanent residents.

To apply contact: Suzanne Serreze, The Jackson Laboratory, 600 Main Street, Bar Harbor, ME 04609 Phone: 207-288-6420; FAX: 207-288-6079; email: sbs@jax.org <http://www.jax.org>

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Email: membership@aaas.org

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

MIT

Faculty Position

MIT is seeking a neurobiologist for the Center for Learning and Memory, with a tenure-track faculty appointment in the Department of Brain & Cognitive Sciences. The area of interest ranges from cellular to systems neuroscience in rodents to monkeys, but we are particularly interested in candidates with research programs in the fields of learning and memory, neural plasticity and neural function.

Applicants should have significant research accomplishments, the ability to establish and maintain a vigorous research program and a commitment to excellence in education at the undergraduate and graduate levels.

Applicants should submit a curriculum vitae and a summary of current and proposed research work, and should arrange to have three letters of recommendation sent to: **Chair, Cellular/Systems Search, Department of Brain & Cognitive Sciences, E25-406, 77 Massachusetts Avenue, Cambridge, MA 02139**. Applicants will be considered as soon as they are complete and letters of recommendation have been received. Qualified women and minority candidates are especially encouraged to apply.



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SCHOOL OF COSMIC PHYSICS

SENIOR PROFESSORSHIP IN GEOPHYSICS

The Governing Board of the School of Cosmic Physics invites applications from suitably qualified persons for the position of Senior Professor of Geophysics. We are seeking someone with a high international profile to develop and lead the School's geophysical programme, possibly in new directions. Associated with the position are a highly competitive salary and a number of scientific and technical positions. The choice of the Board need not be confined to those who apply.

Further information may be found on the Web pages of the School at <http://www.cp.dias.ie>. This information can also be obtained from the Senior Administrative Officer, Ms M. Burke, at the Dublin Institute for Advanced Studies, 10 Burlington Road, Dublin 4, Ireland to whom applications or nominations should be sent before 14 Jan 2002.

The Institute is an equal opportunities employer.

nature immunology

seeks an **ASSISTANT EDITOR**

Bored with the bench, but thrilled with the science? After our successful launch in July 2000, we at Nature Immunology are expanding our staff and offer an exciting opportunity to an immunologist interested in entering the editorial world. Nature Immunology needs an Assistant Editor to continue to develop all aspects of the journal. Assistant Editors are vital members of the Nature Immunology team, responsible for peer review and manuscript selection; commissioning of Reviews, Commentaries and News & Views; writing and editing. Close ties with the immunology community will be forged and maintained through travel to international meetings and visits to individual laboratories. Applicants should have a Ph.D. and post-doctoral experience in immunology, an intense curiosity and broad understanding of the field. The ideal candidate will have an enthusiasm for, and commitment to, the communication of science.

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

To apply, please submit a CV, a short (700-900 words) News & Views-style article on an exciting and newsworthy recent development in any area of immunology and a short cover letter explaining your interest in the post to Dr. Linda J. Miller, Editor, *Nature Immunology*, Nature America, 345 Park Avenue South, New York, NY 10010 (fax 212.696.9594; email admin@natureny.com) to arrive as soon as possible and **not later than 17 December 2001**.

POSTDOCTORAL POSITION STRUCTURE/FUNCTION OF BACTERIAL VIRULENCE SYSTEMS

A postdoctoral position is available to study bacterial virulence systems of Gram negative human pathogens. The laboratory uses X-ray crystallography as a foundation for biochemical and microbial cell biological studies of virulence mechanisms, and for the design and discovery of novel antibacterial drugs.

The candidate should have a Ph.D. degree or equivalent with experience in molecular biology, biochemistry, and cell biology. Candidates with experience in phage display technologies and with an interest in integrating such methodologies with structural biology are also encouraged to apply. Please send a curriculum vitae and the names of three references to:

**Erec Stebbins, Ph.D., Laboratory
of Structural Microbiology, The
Rockefeller University, RU Box
52, 1230 York Ave, New York, NY
10021. EOE/AA**



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**COLUMBIA UNIVERSITY
CENTER FOR
MOLECULAR CARDIOLOGY
POSTDOCTORAL POSITIONS**

The Center for Molecular Cardiology invites applications for postdoctoral fellows in the areas of cardiac electrophysiology, muscle physiology, and molecular biology.

Faculty in the Center for Molecular Cardiology include:

Daniel Burkhoff: heart failure models, human heart failure, muscle physiology

Jeanine D'Armiento: extracellular matrix and matrix metalloproteinases in heart failure

Robert Kass: cardiac ion channels and sudden cardiac death

Andrew R. Marks: calcium release channel regulation

Steven O. Marx: regulation of ion channels by kinases and phosphatases

Geoff Pitt: voltage-gated calcium channels

Applicants should send their CV and three letters of reference to the Search Committee chair: Andrew R. Marks, M.D., Center for Molecular Cardiology, Columbia University, Box 65, 630 West 168th Street, New York, NY 10032; e-mail: arm42@columbia.edu.

Columbia University is an affirmative action/equal opportunity employer.



POSTDOCTORAL TRAINING

Membrane Traffic, Cytoskeletal Organization, and Disease
Rochester, Minnesota, U.S.A.

Join a group of highly interactive NIH-funded investigators at the Mayo Clinic in Rochester, MN and study the molecular mechanisms of membrane traffic in disease. Candidates with a recent M.D. or Ph.D. may apply. Outstanding foreign applicants with previous research experience will be considered for training-supported positions. The Faculty and research areas include:

E. Leof, PhD – Coupled endocytosis and signaling of TGF- β receptor complexes in neoplasia and fibrosis. http://www.mayo.edu/research/leof_lab/

C.T. McMurray, PhD – Aggregation and transport defects induced by expanded polyglutamine proteins in Huntington's Disease. http://www.mayo.edu/research/people/1/10477_mcmurray/

M.A. McNiven, PhD – Cytoskeletal membrane organization and dynamics during endocytosis, cell migration and neuronal growth. http://www.mayo.edu/mcniven_lab/

R.E. Pagano, PhD – Synthesis, transport, and function of lipid molecules in normal and storage disease cells. http://www.mayo.edu/pagano_lab/

Salary will be determined by the successful candidate's experience. There is an attractive benefit package. Mayo Clinic Rochester is a not-for-profit organization. Mayo integrates research with clinical practice and education in a multi-campus environment.

Applications, including curriculum vitae and bibliography, summary of past accomplishments, and the names of three references, should be sent to:

**Ms. Kathryn Streich
Stabile Building 8
Mayo Clinic Rochester
200 First Street SW
Rochester, MN 55905**

See: <http://www.mayo.edu/mgs/bmb/>

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GLOBAL OPPORTUNITIES



**STAFF SCIENTISTS / TECHNICAL POSITIONS
Laboratory for Vocal Behavior Mechanisms**

Positions will be available beginning January 2002 for postdoctoral scientists and technical staff in the newly formed Laboratory for Vocal Behavior Mechanisms at RIKEN Brain Science Institute. Research will be on two aspects of birdsong: (1) mechanisms underlying song learning during a restricted critical period, and (2) the function of birdsong as a communicative signal. For both topics, experiments will be done at a variety of levels, from behavioral to cellular. Individuals interested in learning and memory, neural plasticity, basal ganglia function, or ethology are especially invited to apply. Candidates with experience in anatomy, behavioral analysis, physiology (especially recording from brain slices, or single-unit recording from awake behaving animals), computer programming, or imaging techniques would be preferred, although RIKEN will also provide excellent opportunities for enthusiastic individuals to learn new skills. Applicants for postdoctoral positions must have a PhD in a neuroscience related field. Technical staff should have either a bachelors or masters degree in a biology or psychology related area.

Applicants should submit a CV and the names and addresses of two to three references to:

(before January 2002):

**Neal A Hessler
Box 0444
Department of Physiology
UCSF
San Francisco, CA 94143-0444
U.S.A.
email: neal@keck.ucsf.edu**

(after December 2001):

**Neal A Hessler
Laboratory for Vocal
Behavior Mechanisms
RIKEN BSI
2-1 Hirosawa, Wako-shi,
Saitama 351-0198
Japan**

TECHNICAL UNIVERSITY OF DENMARK

**PROFESSOR
IN PHYSICAL CHEMISTRY**

A position as professor in Physical Chemistry at the Department of Chemistry, DTU, is available.

Applications from outstanding candidates within all areas of physical chemistry will be considered, but preference will be given to applicants within the fields of molecular reaction dynamics and biophysical chemistry.

Further information may be obtained from Head of Department, Inger Sørensen, tel. +45 4525 2027, e-mail: is@kemi.dtu.dk.

The full text of the announcement can be seen on DTU's homepage at http://www.adm.dtu.dk/nyheder/job/sos0301_e.htm.

Application deadline: 3 January 2002 at noon 12.00.

The Technical University of Denmark is one of northern Europe's largest research and teaching institutions specialising in the field of engineering. DTU has approximately 6000 students including 625 PhD students and 1900 staff members.

DTU



Georg-August-Universität Göttingen

Bereich Humanmedizin

Universitätsklinikum - Medizinische Fakultät

Zentrum Physiologie und Pathophysiologie



Post Doctoral Position in Molecular Neurobiology

Projects focus on the molecular mechanisms of synapse formation and modulation. Recent data from our laboratory demonstrated an essential role of neurexins and neurexophilins for synaptic function using genetically-altered mouse strains. A strong background in biochemical and/or molecular biological methods is desirable.

Please inquire and send CV and names of two referees to:

Dr. Markus Missler,
University of Göttingen
Center for Physiology
Humboldtallee 23
37073 Göttingen
Germany

E-mail: missler@neuro-physiol.med.uni-goettingen.de.

POSTDOCTORAL POSITIONS AVAILABLE

Two postdoctoral positions are available to study lipid trafficking and organelle biogenesis in *S. cerevisiae*. Current projects include identifying and characterizing novel proteins involved in sterol transport from the plasma membrane to the ER and developing new genetic and imaging approaches for studying lipid trafficking. Candidates must have a strong background in cell biology. Please send a C.V. and the names of three references to:

Will Prinz

Laboratory of Cell Biochemistry and Biology
NIH/NIDDK

Building 8, Room 402

8 Center Drive

Bethesda, MD, 20892

fax (301) 496-9431

williamp@intra.niddk.nih.gov.

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GLOBAL OPPORTUNITIES



The Victor Chang
CARDIAC RESEARCH INSTITUTE

Sydney, Australia

POSTDOCTORAL POSITION IN AUSTRALIA

A postdoctoral position is available for a highly motivated individual to join our laboratory at the Victor Chang Cardiac Research Institute studying the molecular basis of heart development and disease.

The project seeks to identify and study developmental genes that contribute to congenital defects in heart morphogenesis in the mouse using QTL analysis, microarray and other molecular and genetic technologies.

The project is funded by the National Institutes of Health (USA) and will be for a period of up to 5 years. A strong background in molecular biology is essential. Call, email and/or send CV and names of three referees by 15 January 2002 to:

Professor Richard P Harvey

The Victor Chang

Cardiac Research Institute

384 Victoria Street

Darlinghurst NSW 2010, Australia

Ph: (+612) 9295 8520

email: r.harvey@victorchang.unsw.edu.au

POSTDOCTORAL FELLOWS

Join one of the fastest growing research-oriented medical schools in the nation. With over \$16 million in research grants this year, the Department of Physiology ranked first in NIH support in that discipline. Funded areas of research in functional genomics include: hypertension, diabetes, cancer, obesity, blood diseases, myocardial infarction, renal failure, stroke and bioinformatics. In addition, a multidisciplinary center, the Human and Molecular Genetics Center (<http://hmgc.mcw.edu>) provides a powerful platform for functional genomics (genomics, sequencing and SNPs, Human Genetics Resource Program, microarray, translational research and Bioinformatics Research Center) and is currently searching for post-Doctoral Fellows in each area. These positions require a Doctoral degree in genetics, molecular biology or physiology. Please send a research summary, curriculum vitae, and names and telephone numbers of three references to:



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Milwaukee, WI 53226

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Email: mcw_emp@mcw.edu

BIOMEDICAL MASS SPECTROMETRY AT THE UNIVERSITY OF CALIFORNIA-SAN FRANCISCO

The Department of Pharmaceutical Chemistry at UCSF invites applications from highly qualified individuals with research interests in the application of mass spectrometry to problems at the interface of chemistry and biology for a tenure-track position at the Assistant Professor level. Appointment to a more senior level may be possible for exceptional candidates. The position includes membership in the interdepartmental Graduate Program in Chemistry and Chemical Biology and the Herb Boyer Program in Biological Sciences at UCSF. Candidates should be interested in establishing a program of excellence in the use of mass spectrometry to solve contemporary problems in biology and medicine.

To apply please submit a curriculum vitae, a list of publications, and a brief outline of proposed research projects, and arrange to have three letters of recommendation sent to the search committee. The review of applications will commence January 1, 2001. All application materials should be sent to: Mass Spectrometry Faculty Search Committee #P-88, Box 0446, S-926, University of California, San Francisco, San Francisco, CA 94143-0446.

UCSF is an Affirmative Action/Equal Opportunity Employer. The University undertakes affirmative action to assure equal employment opportunity for underutilized minorities and women, for persons with disabilities and for Vietnamese veterans and special disabled veterans.

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TWO POSTDOCTORAL FELLOWS

Mayo Clinic Molecular Medicine Program
Rochester, Minnesota, U.S.A.

Mayo Clinic Rochester has established a Molecular Medicine Program with several groups working on gene therapy using different viral systems. In the group of **Dr. Stephen Russell** motivated individuals are required to continue developing targetable, injectable retroviral, lentiviral and measles virus vectors for the treatment of neoplastic diseases. The primary disease focus of the laboratory is multiple myeloma. Appropriate model systems will be used to study the *in vivo* effects of the new vectors. Experience in molecular biology is required, training in virology is desirable.

Salary will be determined by the successful candidate's experience. There is an attractive benefit package. Mayo Clinic Rochester is a not-for-profit organization. Mayo integrates research with clinical practice and education in a multi-campus environment. For further information please visit <http://www.mayo.edu/research/mmp>.

Applications, including *curriculum vitae*, bibliography and summary of past accomplishments, should be sent to:

Dr. Stephen J. Russell
Mayo Clinic
Molecular Medicine Program
Guggenheim 18
200 First Street SW
Rochester, Minnesota, 55905, USA
Tel: (507) 284-5373
Fax: (507) 284-8388
sjr@mayo.edu

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The Faculty of Sciences of the
University of Neuchâtel

invites applications for the position of

PROFESSOR OF PLANT PHYSIOLOGY

The candidate will have to teach in French and run the laboratory of plant physiology within the Botanical Institute. The preferred research field is in experimental plant biology, especially whole plant physiology and/or symbiotic interactions between plants and microorganisms. We expect a link to be established between the level of the cell and the level of whole organisms, populations and communities.

The candidate is expected to collaborate with other laboratories of biology and with the newly established National Centre of Competence in Research (NCCR) "Plant Survival" of the University of Neuchâtel.

For further information about this position, please contact Prof. Jean-Marc Neuhaus, director of the Botanical Institute; e-mail: jean-marc.neuhaus@unine.ch; rue Emile-Argand 11, case postale 2, CH-2007 Neuchâtel, Switzerland or visit the web site www.unine.ch/biol/. Starting date October 1st, 2002. The University of Neuchâtel is an equal opportunity employer.

Applications including CV, publication list, research projects and references, should be sent to the Service de l'enseignement universitaire, Château, CH-2001 Neuchâtel, Switzerland, before December 31st, 2001.

**MONTEREY BAY AQUARIUM
RESEARCH INSTITUTE**

POSTDOCTORAL FELLOWSHIPS

The Monterey Bay Aquarium Research Institute (MBARI) is seeking applicants for two-year postdoctoral appointments in all areas of marine science and engineering. Founded in 1987 and supported by the David and Lucile Packard Foundation, MBARI is a non-profit oceanographic research institute, dedicated to the development of state-of-the-art instrumentation, systems, and methods for scientific research in the oceans. MBARI's research center includes state-of-the-art science and engineering laboratories, as well as an operations facility to support our research vessels and oceanographic equipment, including remotely operated vehicles. For more information, please visit our web site at <http://www.mbari.org>.

Located in Moss Landing, California, the heart of the nation's largest marine sanctuary, MBARI places a balanced emphasis on science and engineering, with established programs in marine robotics, ocean physics, chemistry, geology, and biology, as well as information management and ocean instrumentation research and development. Fellowships may require occasional trips to sea.

Applicants should be recent Ph.D. recipients, or 2002 degree candidates. Applications should be received by January 31, 2002 and must include a curriculum vita, at least three professional letters of recommendation, and succinct statements of both the applicant's doctoral research and proposed research goals at MBARI. Selections will be announced by April 1, 2002. Please note that candidates must complete their Ph.D. degree prior to commencing the two-year appointment between October 2002 and March 2003. First year salary is \$37,000; second year \$40,000.

MBARI considers all applicants for employment without regard to race, color, religion, sex, national origin, disability, or veteran status.

Please address applications to:

MBARI, Human Resources
7700 Sandholdt Road,
Moss Landing, CA, 95039-9644
Fax to (831) 775-1620,
or email to jobs@mbari.org



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POSITIONS OPEN

COMPUTER CENTER SYSTEMS MANAGER

The Department of Chemistry of the University of Wisconsin-Madison invites applications for a position as Computer Center Systems Manager. Starting salary: \$45,000 to \$63,000 per year plus excellent benefits. Primarily responsible for managing and administering the computing system that supports the research and teaching needs of the Department's students, faculty, and staff. The computing facility currently consists of UNIX and Linux-based computer systems including a large Beowulf Linux cluster and includes two VAX/VMS systems. Bachelor's degree in any area required; Master's degree preferred. Minimum of two years of experience in managing UNIX-based computing systems in a large computing environment required. Management of mixed UNIX/Linux and Windows systems preferred. Experience with programming, script writing, and scientific software packages desirable. Demonstrable written and oral communication skills required. This is a renewable appointment that will begin December 16, 2001. Applicants should send a résumé and the names of three people willing to write a letter of recommendation to: **Dr. Matt Sanders, Department of Chemistry, 1101 University Avenue, Madison, WI 53706-1396.** Application deadline: December 15, 2001. Reference PVL Number 40990. *Unless confidentiality is requested in writing, information regarding applicants and nominees must be released upon request. Finalists cannot be guaranteed confidentiality. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.*

Susquehanna University invites applications for a tenure-track position as **ASSISTANT PROFESSOR** of biology with a specialty in terrestrial plant ecology. Demonstrated success or evidence of potential to excel in teaching and advising undergraduates essential. Teaching duties include introductory-level biology and development of courses in the specialty. An active research program in terrestrial plant ecology and commitment to fostering student involvement in research is necessary. Ph.D. required.

A selective, residential, undergraduate institution of over 1,800 full-time students, Susquehanna University is located in the scenic Susquehanna Valley, one hour north of Harrisburg, Pennsylvania; one hour east of State College, Pennsylvania; and three hours from New York, Philadelphia, Pennsylvania, and Washington, D.C. More information is available at **website: <http://www.susqu.edu/biology>.** Applications should include curriculum vitae, statement of teaching objectives and research interests, copies of transcripts, and three letters of reference to: **Dr. David Richard, Head, Department of Biology, Susquehanna University, Selinsgrove, PA 17870.** Review of applications begins January 15, 2002, and continues until the position is filled. *SU is an Affirmative Action/Equal Opportunity Employer committed to fostering diversity in its faculty, staff, and student body.*

CELL BIOLOGIST

The Department of Biological Sciences at Eastern Illinois University is seeking a Cell Biologist (tenure track) to begin August 2002. Ph.D. required; postdoctoral experience preferred. Teaching responsibilities include undergraduate courses in developmental biology, cell biology, and a graduate course in the area of specialty. Research interest is open to all areas of cell biology. Successful candidates will be expected to develop a research program involving both undergraduate and M.S. students. Application should include curriculum vitae, statement of research interests, three letters of reference, and copies of relevant publications. Review of all materials will begin January 7, 2002, and will continue until filled. Send materials to: **Dr. Britto P. Nathan, Department of Biological Sciences, Eastern Illinois University, 600 Lincoln Avenue, Charleston, IL 61920.** E-mail: cfbpn@eiu.edu; website: www.eiu.edu/~biology. *Eastern Illinois University is an Equal Opportunity/Equal Access/Affirmative Action Employer committed to achieving a diverse community.*

POSITIONS OPEN

CHAIR AND PROFESSOR OF CHEMISTRY San Diego State University

The Department of Chemistry at San Diego State University invites applications and nominations for the position of Department Chair and Professor with appointment to begin July 1, 2002. The salary will be competitive and commensurate with qualifications and experience. The new Chair will have a nationally recognized research program in one of the five disciplines represented in our department (analytical, biochemistry, inorganic, organic, and physical) or at the interface of these areas and will have a firm commitment to quality in undergraduate instruction. The chair will work with all members of the Department to increase both the number of faculty and the undergraduate and graduate student population.

SDSU is a Carnegie Doctoral/Research University-Intensive and is poised to gain the D/R Extensive classification in the near future. The Department of Chemistry currently has 17 tenured/tenure-track faculty and administers a Doctoral program in chemistry jointly between San Diego State University and the University of California at San Diego. For more details, visit the Department **website: <http://www.chemistry.sdsu.edu/chemistry>** and SDSU's **website: <http://www.sdsu.edu/>.**

Applicants should send a detailed letter of application including a statement of teaching philosophy and future research directions, complete curriculum vitae, representative publications, and the names of at least four potential references to: **Chemistry Department Chair Search Committee, College of Sciences, San Diego State University, San Diego, CA 92182-4610.** Letters of nomination should be sent to the same address. Review of applications will begin on January 7, 2002, and continue until the position is filled.

SDSU is an Equal Opportunity Employer and does not discriminate against persons on the basis of race, religion, national origin, sexual orientation, gender, marital status, age, or disability. Women, ethnic minorities, and persons with disabilities are encouraged to apply.

PHYSIOLOGIST

The Department of Biological Sciences at Marquette University has a tenure-track **ASSISTANT PROFESSOR** position available August 16, 2002, for a Ph.D. with postdoctoral experience. The successful applicant is expected to develop an extramurally funded research program and to teach a one-semester undergraduate laboratory course in either neurobiology or physiology annually and a graduate course or seminar each year in the applicant's area of expertise. The successful candidate's interests should complement the existing strengths of the Department (**website: <http://biology.marquette.edu>**). Areas of expertise desired include cellular and molecular approaches to neurobiology or muscle biology. Send curriculum vitae; statement of research interests; and three letters of reference by January 15, 2002, to: **Dr. Brian Unsworth, Chair, Department of Biology, WLS 112B, P.O. Box 1881, Milwaukee, WI 53201-1881.**

ASSISTANT/ASSOCIATE PROFESSOR POSITION

Marine or Aquatic Inorganic Geochemistry

Applicants are sought for a tenure-track faculty position in the School of Marine Science, Virginia Institute of Marine Science (VIMS), College of William and Mary. Review will begin in early January 2002 and the position will be filled between June 2002 and January 2003. Applicants should have research and teaching interests in the quantitative understanding of inorganic geochemical processes in marine systems. Send curriculum vitae, statement of research and teaching interests, and full contact information for five references to: **Geochemist Search Committee, Department of Physical Sciences, School of Marine Science, VIMS, P.O. Box 1346, Gloucester Point, VA 23062-1346.** Further details and instructions can be accessed at **website: <http://www.vims.edu>** under Job Openings. *The College is an Equal Employment Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

STANFORD UNIVERSITY SCHOOL OF MEDICINE

Description: The Department of Radiology is seeking to fill a full-time faculty position at the **ASSOCIATE** or **FULL PROFESSOR** level. The successful candidate will lead a growing research program at Stanford in molecular imaging, focusing on the investigation and the development of methodologies for imaging gene expression and other molecular events *in vivo*. This research will aid in understanding basic disease processes, diagnosing pathology, facilitating drug design, and monitoring gene therapy. This interdisciplinary program will require coordination and collaboration with experts in molecular biology, genetics, imaging, and nuclear medicine. Ample opportunities exist for collaborative research with other faculty in radiology and with other departments of the School of Medicine or elsewhere within the University. The candidate will be encouraged to be involved in the teaching of residents, fellows, and graduate students. The candidate is expected to develop independent extramural funding. Candidates for this position must have a proven track record in biomedical research and significant experience in medical imaging. Please send curriculum vitae and the names of three references to: **Norbert Pelc, Sc.D., Professor of Radiology, Search Committee Chairman, Stanford University, Lucas MRS Center, MC 5488, Stanford, CA 94305.** *Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.*

PLANT BIOLOGIST

The Department of Biology at Marquette University seeks to fill a tenure-track **ASSISTANT PROFESSOR** position in plant biology available August 16, 2002. Candidates must have postdoctoral experience and must develop an extramurally funded research program. Preference will be given to applicants with expertise in plant molecular biology and bioinformatics but applications are invited from all areas of plant biology. Teaching responsibilities include an annual one-semester undergraduate lecture in plant biology and a graduate course or seminar each year. Send curriculum vitae; statements of research interests; and three letters of recommendation by January 15, 2002, to: **Dr. Brian Unsworth, Marquette University, Department of Biology, WLS112A, P.O. Box 1881, Milwaukee, WI 53201-1881.** Website: <http://biology.marquette.edu>.

MICROBIOLOGIST/GENETICIST: Tenure-track position at **ASSISTANT PROFESSOR** level beginning July 2002 for a Microbiologist/Geneticist whose research program employs molecular methods to address problems in bacteriology. Incumbent will teach courses in microbiology and genetics at all levels. Candidates must have Ph.D., demonstrate excellence in teaching, establish a vigorous research program involving undergraduates, and participate in other faculty responsibilities. Postdoctoral experience desired. Send curriculum vitae; academic transcripts; statements of teaching philosophy; research plans; and three letters of recommendation to: **Dr. Yolanda P. Cruz, Chairman, Department of Biology, Oberlin College, Oberlin, OH 44074** by December 15, 2001. *Affirmative Action/Equal Opportunity Employer.*

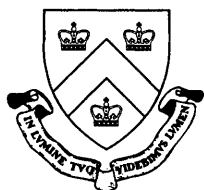
The Department of Biology at the University of San Francisco (USF) invites applications for a tenure-track position to teach an introductory course in genetics as well as courses in a specialty field and to establish an independent research program involving undergraduates. The position will be filled at the **ASSISTANT or ASSOCIATE PROFESSOR** level beginning August 2002. For details, please see **website: <http://www.usfca.edu/biology/>.** *USF is an Affirmative Action/Equal Opportunity Employer.*

THE 2002 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 2001 awardees were Avram Herskho, M.D., Distinguished Professor, Technion-Israel Institute of Technology Alexander Varshavsky, M.D., Howard and Gwen Laurie Smits Professor of Cell Biology, California Institute of Technology.



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. Marian Carlson. 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. Marian Carlson, 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, Room 2-401, New York, NY 10032.

Deadline for the receipt of nominations is January 14, 2002.

FELLOWSHIPS

UNCF•MERCK SCIENCE INITIATIVE



"A mind is a terrible thing to waste"



UNDERGRADUATE

SCIENCE RESEARCH
SCHOLARSHIP AWARDS

- 15 Awards Annually
- Scholarships up to \$25,000
- Two Summer Internships at a Merck Research Facility

An applicant must:

- Be a full-time student at any four-year college or university
- Have junior year academic status
- Major in a life or physical science (first professional degrees excluded)
- Have a minimum cumulative GPA of 3.3 (4.0 point scale)

GRADUATE

SCIENCE RESEARCH
DISSERTATION FELLOWSHIPS

- 12 Fellowships Annually
- Fellowship Stipends up to \$30,000
- Department Grants of \$10,000
- Support for 12-24 months

An applicant must:

- Be enrolled full-time in a Ph.D. or equivalent doctoral program in a biomedical life or physical science
- Be engaged in and within 1-3 years of completing dissertation research

POSTDOCTORAL

SCIENCE RESEARCH
FELLOWSHIPS

- 10 Fellowships Annually
- Fellowship Stipends up to \$55,000
- Department Grants of \$15,000
- Support for 12-24 months

An applicant must:

- Hold a Ph.D. or equivalent degree in a biomedical life or physical science
- Be appointed as a postdoctoral fellow by the end of the year 2002 at an academic or non-academic research institution (private industrial laboratories are excluded)

Applicants must be African American (Black, non-Hispanic), U.S. citizens or permanent residents, and attend an institution in the U.S.A. Applications must be postmarked by December 15, 2001 For application forms and more information, please contact your department chairperson or Jerry L. Bryant, Ph.D., at the **United Negro College Fund**, 8260 Willow Oaks Corporate Drive, P.O. Box 10444, Fairfax, VA 22031-4511, by fax (703) 205-3574, by e-mail at uncfmerck@uncf.org, or visit our website at www.uncf.org/merck/

POSITIONS OPEN

INSTRUCTOR

Human Anatomy and Physiology Coordinator

The Department of Biology at the University of Arkansas at Little Rock invites applications for an Instructor (nontenure track; yearly renewable contract) to begin at the fall term of 2002. Applicants must have a minimum of an M.S. or M.A. in the biological sciences. This person will teach and serve as the coordinator for our freshman-level courses. The successful candidate will also teach one of the introductory biology courses with the opportunity to teach additional courses in their area of expertise. Individuals with computer and Web-based skills will be given preference. The successful candidate will have the opportunity to redesign and update these courses.

The University of Arkansas at Little Rock ([website: http://www.ualr.edu](http://www.ualr.edu)) is a metropolitan, state-supported university with a current enrollment of over 11,000 students. Within the College of Science and Mathematics, the Department of Biology consists of 16 full-time faculty members and over 350 majors in its various degree programs. The Department offers B.S. degrees in biology with three concentrations (general biology, fisheries and wildlife management, and molecular biotechnology) and environmental health sciences (four options).

The Department has an M.S. program in biology. An application should include curriculum vitae, statement of teaching philosophy, undergraduate and graduate transcripts, and three letters of reference. Review of the applications will begin on 1 December 2001 and will continue until the position is filled. Applications should be addressed to: **Dr. Dennis A. Baeyens, Department of Biology, University of Arkansas at Little Rock, 2801 South University Avenue, Little Rock, AR 72204-1099.**

The University of Arkansas at Little Rock is an Equal Opportunity/Affirmative Action Employer and actively seeks the candidacy of minorities, women, Vietnam-era veterans, and persons with disabilities. Under Arkansas law, all applications are subject to disclosure.

PLANT PHYSIOLOGIST: Tenure-track position at ASSISTANT PROFESSOR level beginning July 2002 for a Plant Physiologist whose research program employs molecular methods to address problems at level of cell or organism. Incumbent will teach courses in plant biology at all levels. Candidates must have Ph.D., establish a vigorous research program involving undergraduates, demonstrate excellence in teaching, and participate in other faculty duties. Postdoctoral experience desired. Send curriculum vitae; academic transcripts; statements of teaching philosophy; research plans; and three letters of recommendation to: **Dr. Yolanda P. Cruz, Chairman, Department of Biology, Oberlin College, Oberlin, OH 44074** by December 15, 2001. *Affirmative Action/Equal Opportunity Employer.*

Isis Pharmaceuticals, Inc., has openings for **PH.D.-LEVEL SCIENTISTS** in chemistry with experience in HPLC, NMR, infrared spectral analysis, and peptide/sugar synthesis; in pharmacology with experience in *in vivo* pharmacology and skills in animal surgery, analysis, and molecular pharmacology; and analytical chemistry with experience with LC/MS and development of new separation and digestion protocols. Please send résumés to: **Isis Pharmaceuticals, Code PL923, 2292 Faraday Avenue, Carlsbad, CA 92008.** FAX: 760-603-2700; e-mail: resume@isisph.com. Principals only. No telephone calls, please. *Equal Opportunity Employer.*

RESEARCH SCIENTIST position immediately available to study structure, function, and regulation of TRP channels. This senior-level research position requires a Ph.D. and three or more years of postdoctoral training using voltage/patch clamp techniques. An excellent salary and benefits package is available. Electronically submit your curriculum vitae, description of current research, and names of three references to: **Dr. William P. Schilling, Department of Physiology and Biophysics, Case Western Reserve University; e-mail: wps@po.cwru.edu.**

POSITIONS OPEN

PHARMACODIAGNOSTICS PRODUCT SPECIALIST DAKO Corporation

Oversee development of business plans and product positioning in the marketplace; market, research, and monitor competitive activity; and identify customer needs. Support sales activities and create programs to support the market. Interface with production/manufacturing and research and development to develop new products or enhance existing product(s). DAKO is an international, biomedical products company that manufactures and markets immunological reagents and diagnostic kits for use in clinical and research laboratories. B.S. in science required; M.B.A. a plus. Send résumé by FAX: **805-684-5935** or e-mail (Word attachments only). Visit our [website: http://www.dakousa.com](http://www.dakousa.com) for full announcement/benefits. E-mail: employment@dakousa.com. *Equal Opportunity Employer.*

ASSISTANT PROFESSOR Analytical/Physical Chemistry Department of Chemistry

The Department of Chemistry at Louisiana State University invites applications for a tenure-track faculty member specializing in all areas of analytical or physical chemistry. It is anticipated that the hire will be at the Assistant Professor level but candidates at all ranks will be considered. The Department of Chemistry is one of 12 departments chosen for advancement as part of the University's Pillars of Excellence Program, which authorizes additions of outstanding faculty at all ranks. Required qualifications: Ph.D. in chemistry or related field; must be capable of building a highly competitive research program. Responsibilities: Teach courses at the undergraduate and graduate level. The Department is making a strong effort to build research programs emphasizing biological, materials, and environmental chemistry through various state and federal initiatives. Salary will be commensurate with qualifications and experience. Review of applications will begin December 20, 2001, and will continue until candidate is selected. Electronic submission of applications is preferred and should be sent to e-mail: vtornton@lsu.edu. Hard copies of research plans, a statement of teaching philosophy, curriculum vitae, and three recommendation letters should be sent to:

**Vickie Tate Thorton/Hall/Soper
Analytical/Physical Faculty Search Committee
Department of Chemistry
Louisiana State University
Reference: Log Number 0553
Baton Rouge, LA 70803-1804**

LSU is an Equal Opportunity/Equal Access Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL FELLOW OR ASSOCIATE RESEARCH SCIENTIST

Research projects on molecular mechanisms of cellular cholesterol efflux relevant to arteriosclerosis, diabetes, and Alzheimer's disease. M.D. or Ph.D. Send curriculum vitae to: **Dr. Alan Tall, Division of Molecular Medicine, Columbia University, New York, NY 10032.** We take Affirmative Action toward Equal Employment Opportunity.

Texas A&M University at Galveston (TAMUG) seeks applications for two two-year **POSTDOCTORAL FELLOWSHIPS** from highly qualified candidates interested in any aspect of marine biology, oceanography, coastal engineering, or marine policy and management. For details, see [website: http://www.tamug.tamu.edu/posdoc](http://www.tamug.tamu.edu/posdoc) or Telephone: **409-740-4810.** *Equal Opportunity Employer/Affirmative Action.*

POSITIONS OPEN

TENURE-TRACK FACULTY POSITION BIOCHEMISTRY AND MOLECULAR BIOLOGY The Feist-Weiller Cancer Center

Applications are invited for a tenure-track faculty position at the rank of ASSISTANT or ASSOCIATE PROFESSOR. Applicants should have a Doctoral degree, postdoctoral research experience in molecular approaches to cancer biology, and a commitment to excellence in both teaching and research. Faculty members are expected to develop strong, extramurally funded research programs; teach both medical and graduate students; and contribute to a program within the Cancer Center. The Department and Center will assist with technical support and start-up funds. Special consideration will be given to individuals in proteomics/mass spectrometry or with research interests complementing those of the Department (chromatin structure and rearrangements, transcriptional and translational regulation, protein chemistry, enzymology, physical biochemistry, protein degradation by ubiquitinylation, gene expression during development, oncogenesis, signal transduction via kinases and phosphatases, regulation of cell growth and division, nutrition and free radicals, glucose transport) and Center (cancer prevention; viral oncology; hematologic malignancies; and aerodigestive, prostate, and breast cancers). A strong clinical research unit and shared major instrumentation in the Center facilitates translational research. More information can be found on the departmental [website: http://www.softdisk.com/sites/bchem/](http://www.softdisk.com/sites/bchem/) and Center [website: http://www.cancercenter.lsumc.edu/](http://www.cancercenter.lsumc.edu/). Review of applications will begin in January 2002. Please send curriculum vitae, a brief statement of current and future research interests, and the names of three references to:

**Robert E. Rhoads
Ph.D., Professor and Head
Department of Biochemistry and
Molecular Biology
Louisiana State University Health Sciences Center
1501 Kings Highway
P.O. Box 33932
Shreveport, LA 71130-3932**

LSUHSCS is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS in the general areas of synthetic/bioorganic/natural products chemistry at the National Institutes of Health are currently available. Projects with openings include the design and synthesis of inhibitors and structural/biochemical studies of mycobacterial enzymes. Candidates must have a Ph.D. in or related to organic or biochemistry and less than four years of postdoctoral experience. Expertise in modern NMR methods is a plus. Interested candidates should send current curriculum vitae and have three letters of recommendation sent to: **Dr. Carole A. Bewley, LBC, NIDDK, Building 8-1A02, 9000 Rockville Pike, Bethesda, MD 20892-0820.** *The NIH is an Equal Opportunity Employer.*

COMPUTATIONAL PHYSICIST/ENGINEER: Design and build IT using proprietary information engine process for high-speed data extraction. Conduct multidimensional coordinate transformations and vector and tensor calculations. Develop algorithms using advanced methods in multidimensional space (Hilbert space) for analysis. Ph.D. or ABD required. Experience or graduate-level coursework or research must include tensor analysis as applied in theoretical physics. Send résumé to: **B. Gruenwald, Immentia, Inc., 526 Pineville Road, Newtown, PA 18940.**

Group Leader Positions

Closing date: 20 December 2001.

'Leading Science for Better Health'

The Medical Research Council is an Equal Opportunities Employer and operates a strict no smoking policy.

MRC
Medical Research Council


UCL
University College London

GRANTS



NATIONAL CENTER FOR COMPLEMENTARY
AND ALTERNATIVE MEDICINE

Research Opportunities on Placebo

1) research on the placebo effect in clinical practice (RFA AT-02-001); and 2) on the elucidation of the underlying mechanisms of placebo effect (RFA AT-02-002).

We invite investigators across a broad range of scientific disciplines including – but not limited to – sociology, anthropology, psychology, neurobiology, immunology, endocrinology, molecular biology, and genetics to apply state-of-the-art approaches to investigations that will increase understanding of how placebo works and what its role is in health care.

Copies of the RFAs can be found in the *NIH Guide to Grants and Contracts* at:

<http://grants.nih.gov/grants/guide/rfa-files/RFA-AT-02-001.html>
<http://grants.nih.gov/grants/guide/rfa-files/RFA-AT-02-002.html>

Direct questions to Dr. Nancy Pearson, NCCAM Program Officer,
at pearsonn@mail.nih.gov.

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Faculty Position

Tenure-eligible Assistant or Associate Professor

The Department of Microbiology at the University of Virginia School of Medicine invites applications for a tenure-track faculty position at the rank of Assistant or Associate Professor. Candidates should have a Ph.D. or M.D. degree with appropriate postdoctoral experience. The successful candidate will be expected to establish and maintain an energetic and well-funded research program, which complements ongoing faculty research in the areas of bacterial pathogenesis, gene expression, chromatin structure/genetic instability and mouse genetics. In addition, he/she will participate in graduate and medical student teaching, and interact with faculty from basic science and clinical departments in research and training programs.

The Department of Microbiology provides state of the art research space, numerous core facilities for molecular and cellular research, and a collegial faculty with interests in eukaryotic signal transduction, immunology, cancer biology, microbial pathogenesis, and molecular genetics. Opportunities exist for collaborations in related areas of medicine, including infectious disease, oncology, gastroenterology, and cardiovascular disease.

Interested applicants should provide a curriculum vitae, brief statement of research interests, and arrange to have at least three letters of reference sent to: Search Committee, Attention: Lynn McCutcheon, Department of Microbiology, University of Virginia Health System, Box 800734, Charlottesville, VA 22908. Fax: (434) 982-1071; Email: lam8t@virginia.edu; Web: <http://www.med.virginia.edu/medicine/basic-sci/micr/Micro.html>

Review of applications will commence December 1, 2001.

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



WORLD HEALTH ORGANIZATION (WHO)

The International Agency for Research on Cancer (IARC)

has an opening at its Headquarters in Lyons, France, for a

Scientist in the Unit of Endogenous Cancer Risk Factors, Vacancy notice RC/01/8

The successful candidate is expected to study molecular mechanisms responsible for the increased risk of certain cancers caused by chronic inflammation and other endogenous factors, to participate in the development and validate methods for measuring biomarkers to predict risk of cancer caused by endogenous process as well as to apply these methods in molecular epidemiological studies in collaboration with in-house and external epidemiologists and scientists. The incumbent will also be requested to participate in the development of new strategies for prevention of cancer caused by endogenous process.

The applicant should have a Ph.D. or equivalent in the field of biochemistry, molecular biology or chemistry and good knowledge of the others. 5 years' post-doctoral experiences in biochemistry or molecular/cell biology with specialized knowledge in biochemical aspects of carcinogenesis are required. Very good knowledge of English and a working knowledge of French are expected.

The grade of the post is P3. The post is time-limited to four years. The initial appointment will be for two years, the first being probationary. The annual salary level is US\$ 46 445 tax-free single rate and US\$ 49 756 for a staff member with dependants plus a cost of living element which is currently 14.1% of the above figures.

Applications should be sent before 7 December 2001 to: Personnel Office, IARC 150, Cours Albert Thomas 69372 Lyon Cedex 08, France, Fax +33 4 72 73 83 35, E-mail: personnel@iarc.fr For more information, see IARC home page: <http://www.iarc.fr> under "vacancies" When applying, please quote the vacancy notice number and complete the WHO Personal History form, which is obtainable from the home page. Applications from women are encouraged.



POSTDOCTORAL POSITIONS Division of Experimental Pathology Rochester, Minnesota, U.S.A.

Postdoctoral research positions supported by the National Institutes of Health are available for highly motivated individuals interested in: (1) functional studies of the BRCA2 gene using domain-specific mutations; (2) characterization of novel oncogenes involved in breast cancer development and progression. *In vitro* molecular assays and animal models will be used for both studies.

Salary will be determined by the successful candidate's experience. There is an attractive benefit package. Mayo Clinic Rochester is a not-for-profit organization. Mayo integrates research with clinical practice and education in a multi-campus environment.

Applicants should have a Ph.D. with experience in molecular cell biology or biochemistry and should send a curriculum vitae, a description of research accomplishments, and names of three references to:

Fergus J. Couch, Ph.D.
Mayo Clinic
200 First Street SW
Rochester, MN 55905 USA
e-mail: couch.fergus@mayo.edu

Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.



Karolinska Institutet

Department of Woman and Child Health Pediatric Unit

Postdoctoral fellowship (molecular biologist)

Applications are invited for a postdoctoral fellow position. The position is funded for two years with a possibility for a renewal for another two years. The applicant will join a very active multidisciplinary group studying protein interactions involved in the formation of signalling pathways in neuronal and peripheral tissue. The group is very well equipped for cellimaging studies including two-photon and confocal microscopes. The applicant should have expertise in molecular biology. Experience with yeast two hybrid and viral transfection techniques are also of high value. Application should include a CV, publication list, brief statement of research interests and goals, and names and addresses of three referees (the candidate should arrange to have the letters of recommendation sent directly to the address below).

Send applications no later than December 15, 2001 to:

Dr. Hjalmar Brismar
Dept. Of Woman and Child Health
Karolinska Institutet
Q209, KS
171 76 Stockholm
SWEDEN

email: hjalmar.brismar@ks.se

STRUCTURAL BIOLOGIST

Columbia University invites applications for a tenure track, faculty position in the Department of Biological Sciences; the level of appointment is open. We seek prospective faculty colleagues whose research addresses important problems in modern biology, with an emphasis on structural biology, including approaches that involve imaging living cells. An outstanding research record is expected. Address any inquiries by e-mail to the Faculty Search Committee (jc837@columbia.edu). A CV, statement of research goals, and 3 letters of reference should be sent by January 15, 2002, to:

Dr. Michael P. Sheetz and Dr. Darcy B. Kelley
Co-Chairs, Faculty Search Committee
Department of Biological Sciences, MC 2402
600 Fairchild
Columbia University
New York, NY 10027

Columbia University is an equal opportunity/affirmative action employer and encourages applications from members of underrepresented groups.

POSITIONS OPEN

MOLECULAR/CELL BIOLOGIST ASSISTANT PROFESSOR Fall 2002, Tenure Track

Duties include participation in courses related to molecular, cell, and developmental biology. All faculty teach introductory courses and are expected to develop upper-level courses in an area of specialization. Effective teaching and advising are primary expectations, and faculty are also expected to establish a productive research program involving undergraduate/Master's students and to participate in departmental and institutional governance. Ph.D. in an area of biology is required.

Please send letter of application; statements of teaching and research goals; and résumé with names, addresses, and telephone numbers of three references to: **Dr. Ruth Rollin, Chairperson, Department of Biological Sciences, Central Connecticut State University, New Britain, CT 06050-4010.**

Review of candidates will begin on December 23, 2001.

Central Connecticut State University aggressively pursues a program of Equal Employment and Educational Opportunity and Affirmative Action. Members of all underrepresented groups, women, veterans, and persons with disabilities are invited and encouraged to apply.

LECTURER

The Department of Biomedical Sciences and the Office of Undergraduate Biology invite applications for the position of Lecturer (Ph.D. degree or equivalent) to take responsibility over the two-semester, autotutorial sequence Introductory Biology beginning August 2002. The two courses attract up to 200 biology majors who are guided through reading, laboratory, and discussion modules by the Lecturer and a staff of 20 teaching assistants.

The successful candidate is expected to stay abreast of advances in biology and to incorporate these into a vibrant curriculum. Participation in faculty advising of biology majors is expected. For further information, please contact: **Chair of the Search Committee, Klaus W. Beyenbach; e-mail: kwbl@cornell.edu.** Applications should be sent to: **Professor Beyenbach, Department of Biomedical Sciences, VRT 8014, Cornell University, Ithaca, NY 14853** and include curriculum vitae, a narrative about teaching interests, and the names and addresses of at least three references. *Cornell University is an Affirmative Action/Equal Opportunity Employer and Educator.*

POSTDOCTORAL FELLOWSHIP

A two-year Postdoctoral position is available immediately to conduct research on genetic/environmental factors that determine susceptibility to carcinogen exposures *in utero*, particularly drug metabolic and DNA repair enzymes. The candidate must have experience with basic techniques of molecular biology and analysis of RNA expression, be able to use computers to search genetic databases, and should also have experience with *in vivo* rodent models. Experience with real time fluorescence RT-PCR is highly desirable. Please contact: **Dr. Mark Miller, Department of Cancer Biology, Wake Forest University School of Medicine, Winston-Salem, NC 27157. Telephone: 336-716-0795; FAX: 336-716-0255; e-mail: msmiller@wfbmc.edu.** *Affirmative Action/Equal Opportunity Employer.*

A POSTDOCTORAL POSITION is available to study the role of immunoreceptor signaling in the development of blood vessels and platelet collagen responses. A Ph.D. or M.D. degree is required. Experience in molecular and/or developmental biology is preferred. Salary range is \$28,260 to \$44,412 based on experience. Send curriculum vitae and names of three references to: **Mark Kahn, M.D., Cardiovascular Division, University of Pennsylvania, 952 BRB 2/3, Philadelphia, PA 19104. E-mail: markkahn@mail.med.upenn.edu.**

POSITIONS OPEN

The Department of Animal Biotechnology, University of Nevada, Reno, has an opening for a 12-month, tenure-track **RESEARCH/TEACHING POSITION** in animal genetics. This position will join a critical faculty mass in quantitative and molecular genetics conducting research on livestock production and management systems particular to the Great Basin as well as large animal models for human disease. Teaching will include at least one advanced undergraduate course in quantitative genetics and development of an additional graduate course(s) in comparative or molecular genomics. Advising undergraduate and graduate students is expected. The successful candidate will be expected to establish a strong, extramurally funded research program with an emphasis on domestic animal species of economic importance and contribute to solving problems in Nevada agriculture and developing large animal models for human disease. Qualifications are a Ph.D. degree or international equivalent in animal science, genetics, or related field with emphasis in quantitative or comparative molecular genetics. Evidence of teaching skills and the ability to secure extramural funding are essential. Demonstrated research emphasis in quantitative or comparative molecular genomics required. Preference will be given to candidates with experience and training in implementing molecular genetic approaches to quantitative/statistical genetics and structural genomics as well as a record of interaction with livestock producers and industry organizations. Salary is competitive and commensurate with experience and qualifications. Start date will be July 1, 2002.

To apply, send current, complete curriculum vitae that includes (1) a brief narrative summary outlining experience, qualifications, and research interests; (2) a comprehensive list of publications; (3) names, addresses, and telephone numbers of three persons who may be contacted for letters of recommendation if requested by the Search Committee. Applications received by March 1, 2002, will receive full consideration. Send to: **Nancy Dondero, Department of Animal Biotechnology/202, University of Nevada, Reno, NV 89557. Telephone: 775-784-6135; e-mail: ndondero@cabnr.unr.edu.** Complete position description and requirements are available on our website: <http://www.ag.unr.edu/coa/employ.htm>.

Equal Employment Opportunity/Affirmative Action.

Full-time position for a Physician who is Board eligible/certified in rheumatology as **ASSISTANT/ASSOCIATE PROFESSOR** of medicine in the Division of Immunology and Rheumatology, Department of Internal Medicine, University of Missouri-Columbia. Responsibilities will include developing an independent research program; teaching Fellows, residents, and students; and care of rheumatic disease patients. Individuals sought with experience and interests in laboratory diagnostic testing. Collaborative opportunities exist for basic and clinical research in a variety of fields including autoimmunity, molecular biology, human cellular immunology, and animal models. Address inquiries to: **Dr. Robert Hoffman, Director, Division of Immunology and Rheumatology, Department of Internal Medicine, MA427 Medical Science Building, Columbia, MO 65212. E-mail: hoffmanr@health.missouri.edu.**

UMC is an Equal Opportunity/Affirmative Action Employer and complies with the Americans With Disabilities Act of 1990. Women and minorities are encouraged to apply. Questions and ADA accommodation needs may be addressed to: Sean Siebert, Human Resource Services Coordinator, Department of Internal Medicine, UMC, MA438 Medical Science Building, Columbia, MO 65212.

PRINCIPAL RESEARCH ASSOCIATE

Ph.D. with at least five years of experience in molecular/cell biology for a molecular medicine service core. DNA cloning, analysis, and expression; cell culture. Research on growth factors. Résumé to: **Dr. Nestor Gonzalez-Cadavid, Charles R. Drew University, Division of Endocrinology, 1621 East 120th Street, Los Angeles, CA 90059.**

POSITIONS OPEN

STEM CELL/DEVELOPMENTAL BIOLOGIST AND/OR REPRODUCTIVE BIOLOGIST

Tenure track/open rank. U.S. citizens or permanent residents only. The Division of Cellular and Gene Therapies within the Center for Biologics Evaluation and Research of the FDA seeks one or more individuals with Ph.D. and/or M.D., a minimum of three years of postdoctoral experience, and a record of scientific productivity. The successful candidate will be expected to establish an independent research program in an area relevant to the responsibilities of the Division. After a suitable introductory period, candidates will (in addition) be expected to participate in formulation of FDA policy and review of products used in experimental clinical trials of cellular and gene therapies including approaches involving stem cell or nuclear transfer technology, tissue engineering, or assisted reproduction. Accordingly, expertise and research relevant to these areas (e.g., biology of cell fate specification; pluripotent stem cells; or fertilization and early development, particularly in mammalian models) are preferred. Modern laboratory facilities including state-of-the-art animal quarters with superb veterinary support are located on the NIH campus. Investigators will have full access to NIH services and facilities and will be supported with FDA intramural funding. Salary is commensurate with experience and training. Send curriculum vitae, contact information for three to five references, a brief summary of research accomplishments and plans, and representative reprints to: **Recruitment Coordinator, Division of Cell and Gene Therapies, 1401 Rockville Pike, HFM-527, Rockville, MD 20852.** Evaluation of qualified candidates will begin immediately and continue until the position is filled.

POSTDOCTORAL FELLOW

The Department of Pathology at Saint Louis University, a Catholic Jesuit institution dedicated to education, research, and health care, is seeking a Postdoctoral Fellow, Ph.D. level, with significant experience in gene cloning and expression and functional characterization of recombinant proteins by mutagenesis techniques to study the role of novel phospholipases in thrombin-mediated signal transduction in endothelial cells. The candidate is expected to possess excellent communication skills and to function independently while working collaboratively with other experienced Investigators. Please send a cover letter describing interests and curriculum vitae to: **Dr. Jane McHowat, Department of Pathology, Saint Louis University School of Medicine, 1402 South Grand, Saint Louis, MO 63104. E-mail: mchowatj@slucare1.sluh.edu.**

Saint Louis University is an Affirmative Action/Equal Opportunity Employer and encourages nomination of and applications of women and minorities.

POSTDOCTORAL RESEARCH ASSOCIATE

Position is available for the study of ion channels in parasitic nematodes. The project is to use whole cell and single channel recording techniques to study the physiology and pharmacology of muscle ion channels. The project focuses on nicotinic receptor plasticity and drug resistance. A Ph.D. is required. Send letter of application, curriculum vitae, and names of three references to:

**Richard J. Martin
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College of Veterinary Medicine
Iowa State University
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POSITIONS OPEN

VISITING POSTDOCTORAL FELLOWSHIP IN BIOMATERIALS

University of California Berkeley

The biomimetic materials and tissue engineering laboratory is seeking two Postdoctoral Fellows in the area of macromolecular science and engineering. Candidates should have a Ph.D. in either materials science and engineering, biomedical engineering, chemical engineering, or another relevant scientific field. Specific areas of interest include polymer synthesis and characterization, surface modification, and biomolecular engineering of materials. The positions are available for an initial term of one year with the possibility of extension for a second year. The starting date is flexible; however, candidates must have completed their degree no more than three years prior to the start date. The salary will be commensurate with experience. Interested candidates should send curriculum vitae, statement of research interests, and three references to: **Professor Kevin E. Healy, University of California Berkeley, 465 Evans Hall, Number 1762, Berkeley, CA 94720.**

University of California at Berkeley is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS are available at the University of Virginia in the Department of Molecular Physiology and Biological Physics in the School of Medicine. The positions are for (1) measuring single molecule interactions with AFM and (2) macromolecular structure by cryo-AFM. We are seeking motivated individuals who are interested in a career in biophysics. Experience with AFM is desirable but not required. However, a genuine interest in biology is a must. This is an ideal environment for multidisciplinary training and research. Interested individuals please contact: **Professor Zhifeng Shao, Department of Molecular Physiology and Biological Physics, Box 800736, University of Virginia Health System, Charlottesville, VA 22908-0736. E-mail: zs9q@virginia.edu.** The University is an Equal Opportunity/Affirmative Action Employer. Qualified female and minority applicants are encouraged to apply.

POSTDOCTORAL ASSOCIATE. A Postdoctoral position is available for structure-function studies of rapid catalysis in superoxide dismutases and carbonic anhydrases (see *Biochemistry* 40:12051, 2001; *JACS* 123: 5861, 2001). Recent Ph.D. required with background in physical or inorganic biochemistry. Research will involve kinetic and structural investigations using rapid kinetic methods, magnetic resonance, crystallography, and redox potential measurements. Send curriculum vitae and names of three references to: **Dr. David N. Silverman, University of Florida College of Medicine, Box 100267 Health Center, Gainesville, FL 32610-0267. E-mail: silvrnm@ufl.edu.**

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POSTDOCTORAL RESEARCH POSITION Indiana Molecular Biology Institute Indiana University

Postdoctoral program affiliated with the Walther Cancer Institute. Program is centered on basic biological mechanisms relevant to cancer research. Position open July 1, 2002. Additional information at website: <http://www.bio.indiana.edu/research/imcb/jobs.html>; Telephone: 812-855-4183.

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POSTDOCTORAL POSITIONS Duke University

Professor M. C. Pirrung seeks recent Ph.D.s for research in nucleic acid synthesis and biochemistry (see website: <http://www.chem.duke.edu/~pirrung>). Send curriculum vitae, publication list, and references (with contact information) to: **Box 90317, Durham, NC 27708. FAX: 919-660-1591.**

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MOLECULAR BIOLOGY POSITION Carlsberg Laboratory

An exciting **POSTDOCTORAL POSITION** in molecular biology is immediately available at the Solid Phase Organic Combinatorial Chemistry (SPOCC) Centre hosted by Carlsberg Laboratory (website: <http://www.crc.dk>). The research involves establishing whole cell receptor assays and protein expression in the interim between industrial research at Combio A/S (website: <http://www.combio.dk>) and basic combinatorial research at Carlsberg Laboratory. The work is challenging and previous experience in receptor expression is an advantage. If you have a solid background in molecular biology and are interested in joining the SPOCC Centre, please forward your complete curriculum vitae, publication list, and mail/e-mail addresses of three references to: **Adj. Prof. Morten Meldal, Carlsberg Laboratory, Department of Chemistry, Gamle Carlsberg Vej 10, DK-2500, Valby, Denmark. E-mail: mpm@crc.dk.** Application deadline is January 1, 2002.

Two **POSTDOCTORAL POSITIONS** in human sleep and chronobiology. Competitive salary and infrastructure support for a minimum of two years. Candidates must be able to develop and carry out individual research projects that will lead to independent extramural funding. The laboratory conducts research related to human circadian rhythms with a broad focus on clarifying the differential contributions of environmental, behavioral, and physiological factors in the regulation of sleep and biological rhythms. Send curriculum vitae, statement of research interests/goals, and the names of three references to: **Scott S. Campbell, Ph.D., Professor, Department of Psychiatry, Weill Medical College of Cornell University, 21 Bloomingdale Road, White Plains, NY 10605. E-mail: sscampb@med.cornell.edu.**

POSTDOCTORAL POSITIONS are available immediately to study the regulation of signal transduction in T cells by protein ubiquitination (*Science* 286:309, 1999; *Nature Immunology* 2:870, 2001). Prior experience in molecular and cell biology and a strong background in immunology are desired. Send curriculum vitae to: **Dr. Yun-Cai Liu, La Jolla Institute for Allergy and Immunology, 10355 Science Center Drive, San Diego, CA 92121. E-mail: yuncail@lai.org.**

POSTDOCTORAL POSITION available to study mechanisms of diabetic complications during embryonic development. The candidates with experience in kidney field and cell and biological techniques would be preferred. Send curriculum vitae and three references to: **Yashpal S. Kanwar, M.D., Ph.D., Northwestern University, 303 East Chicago Avenue, Chicago, IL 60611. E-mail: y-kanwar@northwestern.edu.**

POSTDOCTORALS in cancer research: Johns Hopkins University School of Medicine. Curriculum vitae/references to: **Dr. L. Resar, Johns Hopkins University SOM, 720 Rutland Avenue, Ross Research Building, Room 1125, Baltimore, MD 21205. Telephone: 410-955-6132; FAX: 410-955-8208; e-mail: lresar@jhmi.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS CARDIOVASCULAR ION CHANNELS

Positions are available to study the function, pharmacology, and regulation of cardiovascular ion channels and their remodeling in disease states. A multidisciplinary approach includes electrophysiology, biochemical, and molecular biology methods to study both recombinant and native channels. Candidates with strong prior experience in basic electrophysiology/patch clamp techniques are preferred. Send curriculum vitae, description of research interests, and names/telephone numbers/e-mail addresses of three references to: **Dr. Katherine Murray, Department of Pharmacology, Room 559 PRB, Vanderbilt University School of Medicine, Nashville, TN 37232-6602. E-mail: kathy.murray@mcmail.vanderbilt.edu.**

POSTDOCTORAL POSITIONS are available to study protein-protein and protein-DNA interactions at the whole genome level for the bacterium *Shewanella oneidensis*. The research will require skills in molecular biology and protein chemistry. Previous experience with protein purification and phage display is especially desired. The project is part of a collaboration between Baylor College of Medicine and Oak Ridge National Laboratory (ORNL). The position will be based at Baylor College of Medicine but work will be performed at ORNL as well. Please send curriculum vitae and the names of three references to: **Timothy Palzkill, Ph.D., Department of Molecular Virology and Microbiology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. E-mail: timothy@bcm.tmc.edu.** BCM is an Equal Opportunity/Equal Access/Equal Affirmative Action Employer.

POSTDOCTORAL POSITIONS

Postdoctoral positions, both junior and senior, are available in biophysical and molecular structural studies of pulmonary surfactant.

Candidates with experience with pulmonary surfactant or in biophysical studies of lipid-protein interactions are especially encouraged to apply.

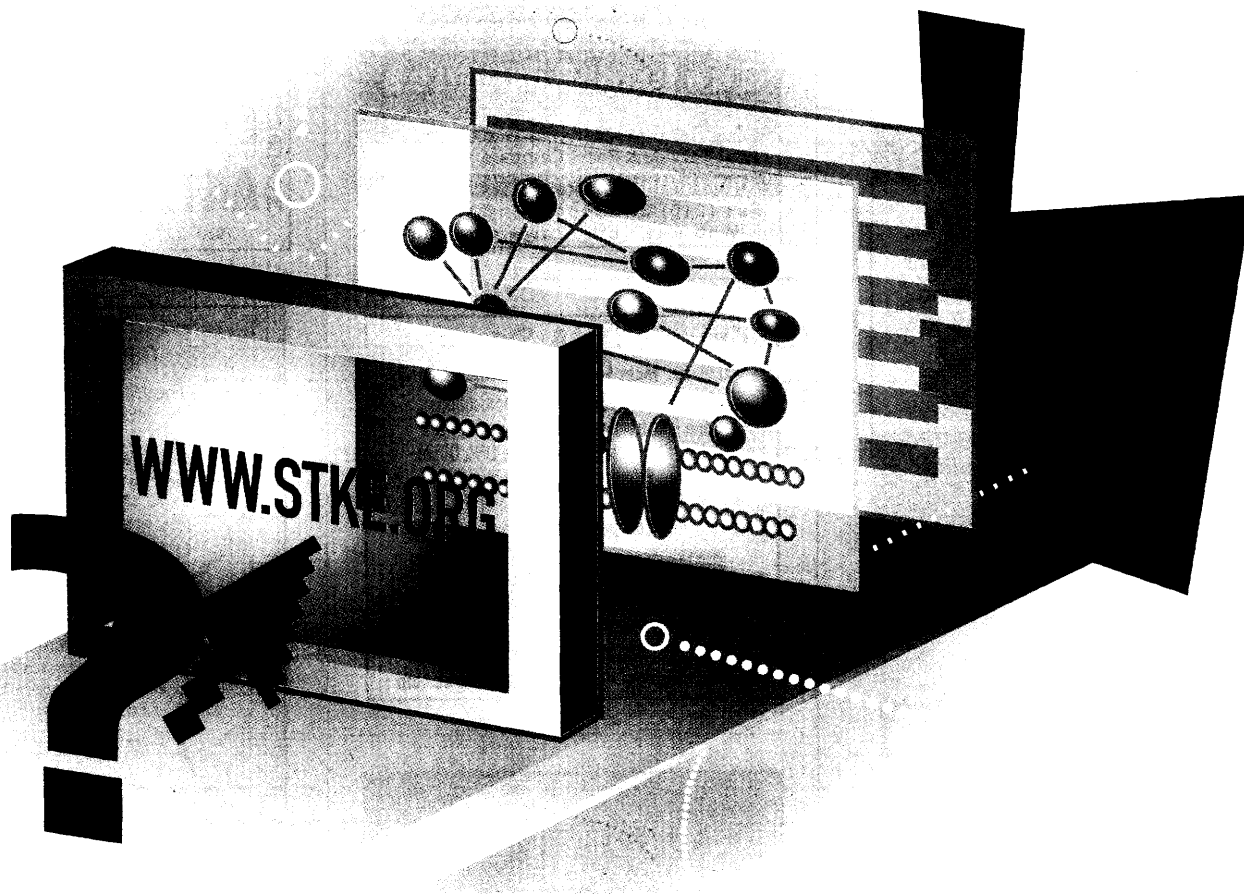
Please submit applications that include curriculum vitae and the names of three references to:

**Kevin M. W. Keough
Department of Biochemistry
Memorial University of Newfoundland
St. John's, Newfoundland A1C 3X9 Canada
E-mail: kkeough@mun.ca or
kevin_keough@hc-sc.gc.ca**

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS IN APPLIED CONSERVATION

The Nature Conservancy (TNC) announces the fifth round of David H. Smith Conservation Research Fellowships, which provide two-year postdoctoral support in applied conservation biology. Each Fellow will carry out research pertinent to conservation issues in the United States at an institution selected by the Fellow and in close association with a TNC mentor. Research will have relevance to sites or ecoregions that TNC has identified as having conservation priority. Research themes are open; past Fellowships have focused on conservation planning, climate change, avian conservation, freshwater and riparian ecology, and invasive species. Proposals are due February 1, 2002. Funding for Fellows will be available August 2002. For more information, including the proposal guidelines and selection criteria, see the Smith program website: <http://www.smithfellows.org>. You can also request a copy of the guidelines by sending an e-mail or writing to: **Smith Conservation Research Fellowship Program, The Nature Conservancy, 4245 North Fairfax Drive, Suite 100, Arlington, VA 22203-1606. E-mail: postdoc@tnc.org.** The Nature Conservancy is an Equal Opportunity Employer.



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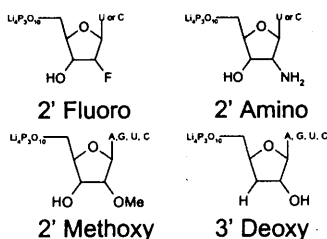
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