

NEW PRODUCTS

CalculationCenter 2.0 Wolfram Research, Inc.

Champaign, IL
\$295
217-398-0700
www.wolfram.com

A MATHEMATICAL ASSISTANT

CalculationCenter (version 2.0) is the latest version of the popular application based on the technology in the program Mathematica. It is targeted at engineers, researchers, and educators who do not need the high-powered calculations of the parent program; CalculationCenter retains functionality while making the learning curve especially gentle.

The program's mathematical function list is extensive. It includes algebra (simplify, factor, join, expand), calculus (differentiate and integrate), matrices, statistics, and special equation solvers. The addition of statistical distribution capabilities allows mathematical modeling of physical systems, as well as the theoretical generation of many behaviors, including randomness.

Upon start-up, the program's main screen displays the standard menu bar, a work area, and controller buttons. Clicking the controller buttons calls up the InstantCalculator, which is the core of the program. This allows entry of functions and variables to be acted on, shows an example of the calculation, and performs the calculation. Master controller buttons allow quick access to the previous and home controllers, a controller for help, and a fourth controller that creates another copy of the current one. This allows the display of several controllers at once, and it speeds the analysis by allowing the user to rapidly create complex formulas.

A very useful feature of the calculators, of particular interest to physicists and chemists, is the units and constants calculator, which allows instant access to a wide variety of physical constants. In addition, a full menu of Greek letters and relational operators is available.

It would be difficult to fully describe this package without mentioning its SmartPlot component. SmartPlot is a type of InstantCalculator for quickly visualizing functions or data points as two- and three-dimensional graphics. One merely calls up the SmartPlot, enters a function, and activates the calculate button. The program automatically sizes the axes and produces a plot. The axes may then be reassigned new values or the function may be changed. Inequalities are easily plotted by specifying an inequality and bounds for the variables. Default syntax conventions for all entries follow standard Mathematica format (e.g., built-in functions are capitalized, arguments are placed in square brackets, and lists are placed in curly brackets).

The program has several formatting functions useful for publishing documents or posting them to the Web. These include simple changing of font, style, size, and background color. Print type settings from MathML are available. Additional import and export formats are also available, including 3D, DXF, STL, and CSV, to support interaction with other data-handling and technical software. The improved error-correcting technology detects syntax errors and suggests corrections. If ease-of-use is an important consideration for your mathematical computing needs, CalculationCenter is highly recommended.

—John A. Wass

Immunochemistry R&D, Abbott Laboratories, D9HC AP30-LL, 200 Abbott Park Road, Abbott Park, IL 60064-3537, USA. E-mail: John.Wass@abbott.com

Taconic

For more information
888-TACONIC
www.taconic.com

www.scienceproductlink.org

MONOCLONAL ANTIBODY PRODUCTION

Among the process technologies available at Taconic Biotechnology for in vitro production of monoclonal antibodies is STAT-IV. The In-

tegra Biosciences CELLine CL 1000 device provides a low-serum, concentrated source of in vitro-derived monoclonal antibody. Capable of producing up to 200 mg of antibody per 42-day run, the Integra CL 1000 is an economical in vitro alternative to ascites production. Target amounts of antibody from 100 mg to 2 g (using multiple devices) can be attained. Production from hybridomas of any origin (mouse, rat, or hamster) is possible. A high density of cells with a low media volume results in high concentrations of antibody in solution. Typically, the STAT-IV Program requires 9 weeks to complete. After the customer supplies cells from a designated cell line, the inoculation into the CL 1000 takes place by the end of week 2. In weeks 3 through 6, supernatant is harvested, centrifuged, and retained. At completion, the weekly harvests are pooled and quality-control testing is completed.

Cambridge Scientific Instruments

For more information
+44 (0) 1353 669916
www.camsci.co.uk

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GAS CHROMATOGRAPHS

The 200 series gas chromatographs offer new functionality and features normally found only in much higher priced instruments, such as electronic pressure control (EPC). EPC not only eliminates fiddly nee-

dle valves and mass flow controllers but can also achieve considerable improvements in chromatographic performance—better resolution, reduced analysis time, and extended column life (lower column temperatures can be used). Other 200 series enhancements include manual or automatic gas sampling and an internal "timed event" facility that can be used either to control unattended operation or for changing parameters like amplifier range and attenuation during a run.



Schleicher & Schuell

For more information
603-352-3810
www.s-and-s.com

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CHEMICALLY TREATED PAPER

The IsoCode I.D. is chemically treated paper that is bactericidal, fungicidal, and viricidal to keep sample DNA safe from degradation. The chemistry also inactivates DNase, allowing for the indefinite storage of DNA at ambient temperatures. IsoCode I.D. incorporates a color indicator, helping to identify the location of a sample after application on the paper by means of a color change. This is particularly helpful for storing clear samples, such as buccal swab DNA, on the card. The color change occurs immediately, and the color contrast remains clear after drying. It is suitable for any application in which DNA samples are needed and noninvasive sample methods are desired. Applications include population genetics studies, genetic epidemiology, and cancer studies.

Carl Zeiss

For more information
03641 64 2770
www.zeiss.de

www.scienceproductlink.org

THREE-DIMENSIONAL FLUORESCENCE IMAGES

The AxiVision Inside4D microscopy software enables scientists in biological and medical research to easily display correctly scaled fluorescence images three-dimensionally—and even in the time dimension in the case of time-lapse recording—using traditional fluorescence micro-

scopes. AxioVision now supplies everything from a single source, from correct image enhancement using three-dimensional (3D) deconvolution and the animated display of the object with Inside4D. The possibility of easily setting and maintaining all the major parameters is an example of the high user-friendliness of the software. This ability was by no means a standard feature of previous configurations, which required three different programs, and in many cases different computer programs, for image recording, 3D deconvolution, and rendering. One of the versatile applications is the possibility of viewing 3D structures in the time dimension, which opens up new insights into biological functions and interrelations.

Delp & Associates

For more information
614-771-9693

www.scienceproductlink.org

SEALED-VESSEL MIXERS

A new line of laboratory mixers combines the features scientists want with a design that ensures ease of use in a variety of research conditions. The most remarkable feature of the Mag-Drive Sealed-Vessel Mixer is that the mixer body itself seals the vessel for either pressure or vacuum operation, or the containment of hazardous materials in standard laboratory glassware. The line consists of three models, each with a unique mount style. Other design features include a magnetically coupled bench-scale mixer that cannot de-couple; a brushless dc motor that reduces sparking hazards; a unique in-line design with low head height, easy assembly, and drop-in seal and bearing replacement; manually adjustable, variable speed up to 2250 rpm; and high shear mixing capability for glass vessels. The mixers can be used in a variety of conditions, including pressure and vacuum. They can also be used with hazardous and toxic materials.

Thermo Spectronic

For more information
800-654-9955

www.thermospectronic.com

www.scienceproductlink.org

ULTRAVIOLET SCANNING SPECTROPHOTOMETER

The GENESYS 10 ultraviolet (UV) scanning spectrophotometer offers scanning from 190 to 1100 nm at speeds from 200 to 1000 nm/min.

A cell correction routine is available that automatically corrects for optical inconsistencies in up to six unmatched cuvettes for up to 31 wavelengths and one full-range scan. This spectrophotometer features a rugged design, powerful optics, user-friendly interface, versatile software capabilities, small footprint, and an optional built-in printer. It features a 5-nm spectral bandwidth dual-detector split-beam optical system for optimal performance, with a long-lasting xenon lamp for outstanding signal-to-noise ratio and negligible drift. It contains built-in programs to run standard curve, absorbance ratio, absorbance difference, scanning, kinetics, and multiwavelength applications. In addition, a performance validation program automatically measures the instrument's performance for four key optical parameters. All programs operate in any of five languages (English, French, German, Italian, and Spanish).

Thermo Spectronic

For more information
800-654-9955

www.thermospectronic.com

www.scienceproductlink.org

CELL DISRUPTION INSTRUMENTS

The FRENCH Laboratory Press is available with two models of the FRENCH Pressure Cells for the disintegration of chloroplast materi-

als, blood cells, unicellular organisms, and other biological particles. The pressure cell can be used to disrupt the cellular walls of a sample while leaving the cell nucleus undisturbed. This technique results in more uniform and complete disruption than is

possible with other mechanical or ultrasonic methods. The two models are the FRENCH Press Start Up Kit with the Miniature 20K FRENCH Pressure Cell and the Standard 40K FRENCH Press Start Up Kit. Both start-up kits include the motor-driven Laboratory Press, spare parts kits, and cell filling stand. The new FRENCH Press O-ring Stem Valve assembly for the standard 40K FRENCH Pressure cell provides a liquid-tight seal and allows optimal control of the output flow rate. The O-ring design makes it easy for the user to control the output flow rate and maintain a "closed" system during sample processing.

BioCat

For more information
+49 (0) 6221 585844

www.biocat.de

www.scienceproductlink.org

GLUTATHIONE-COATED MICROPLATES

These preblocked, clear, glutathione-coated 96-well plates allow the sensitive detection of GST-fusion proteins and their interac-

tion partners. Researchers can establish their own enzyme-linked immunosorbent assays with their antigen of interest or perform quantitative protein-protein interaction studies using the new plates. The plates are suitable for colorimetric assays and have a detection limit of 150 pg GST per well.

Thermo Cahn

For more information
608-327-6777

www.thermocahn.com

www.scienceproductlink.org

THERMOGRAVIMETRIC ANALYZER

The VersaTherm is a new thermogravimetric analyzer that features durable construction of gold-plated, corrosion-resistant balance

components and a chemically inert polymeric chassis. It allows users to easily analyze high-mass, high-volume samples in corrosive or high-vacuum gas environments. With a unique electromagnetic null-type balance, the VersaTherm can handle samples with a capacity up to 100 g and sensitivity up to 0.1 µg. The patented Synergy interface allows for identification of trace level components and provides superior Fourier-transform infrared and mass spectrometry data.



CyberResearch

For more information
800-341-2525

www.cyberresearch.com

www.scienceproductlink.org

LITERATURE

PC Systems Handbook for Scientists and Engineers 2002 is a 196-page compendium that introduces a new line of USB hardware and software for data acquisition, products that can save in setup, wiring, and programming costs. In addition to new USB and traditional data-acquisition products, the handbook contains detailed information on dozens of new motherboards, CPU cards, bus expanders, displays, custom-built personal computers, and motion-control products, along with some 3000 other computer products.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS of any products or materials mentioned is not implied. Additional information may be obtained from the manufacturer or supplier by visiting www.scienceproductlink.org on the Web, where you can request that the information be sent to you by e-mail, fax, mail, or telephone.

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POSITIONS OPEN

UNIVERSITY OF Nebraska Medical Center

FACULTY POSITIONS CANCER RESEARCH

The Eppley Institute for Research in Cancer of the University of Nebraska Medical Center (UNMC) is seeking Faculty to conduct research in three general areas. These faculty appointments are tenure-track with academic rank based on candidates qualifications. (1) Basic Cancer Research: all areas of molecular, cellular or structural biology related to cancer. (2) Cancer Prevention: molecular, genetics and/or genomics based approaches to cancer prevention. (3) Tumor Immunology: basic or clinical aspects of tumor immunology.

The Eppley Institute is an academic unit of UNMC and a key component of the UNMC Eppley Cancer Center, an NCI-designated Cancer Center. Both the Eppley Institute and Cancer Center are in a dynamic growth phase. Applicants should possess a Ph.D., M.D., or other terminal degree and appropriate postdoctoral training. Successful applicants will be expected to develop funded laboratory research programs, collaborate with other faculty, and participate in the pre- and postdoctoral training programs of the Eppley Institute, including an NCI-funded Cancer Research Training Program and a DOD-funded Breast Cancer Training Program.

Applicants should indicate which position they are applying for and forward complete curriculum vitae, a three page description of research accomplishments and future research plans, and a minimum of three letters of reference to: **Dr. Kenneth H. Cowan, Director, Eppley Institute for Research in Cancer, University of Nebraska Medical Center, 986805 Nebraska Medical Center, Omaha, Nebraska 68198-6805.** Review of applications will begin August 15, 2002, and will continue until the positions are filled. See website: <http://www.unmc.edu/Eppley/> for more information. *The University of Nebraska Medical Center is an Equal Opportunity Employer.*

DIRECTOR NATIONAL ASTRONOMY and IONOSPHERE CENTER CORNELL UNIVERSITY

Cornell University seeks a Director of the National Astronomy and Ionosphere Center (NAIC), which is operated under an NSF cooperative agreement. The main instrument is the 305-meter radio telescope near Arecibo, Puerto Rico. NAIC supports research programs in radio astronomy, planetary radar astronomy, and atmospheric science. The observing facilities at the Arecibo Observatory are available for use by the astronomical and atmospheric sciences community on a proposal and peer review basis. NAIC also undertakes the development and operation of enhanced or new equipment and instrumentation that extend the capabilities of this telescope.

The Director is the chief scientific and administrative officer of NAIC, and should have a record of scientific accomplishment in one of the areas of interest at the Observatory. Demonstrated administrative, management, and leadership skills are essential. It is expected that the Director will devote essentially full time to NAIC-related activities, but, as appropriate, an appointment to a tenured faculty position at Cornell would also be made.

The search committee will begin considering applications August 20, 2002, and will accept applications until the position is filled. Inquiries, nominations, and applications should be sent to:

**Professor Joseph Burns, Search Committee Chair
Office of the Vice Provost for Research
314 Day Hall, Cornell University
Ithaca NY 14853**

E-mail: naicsearch@cornell.edu

Applications should include curriculum vitae, publication list, and three letters of reference. *Cornell is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

TENURE-TRACK FACULTY POSITIONS in Molecular Pathogenesis

The newly formed Department of Pathobiological Sciences (PBS) at the Louisiana State University School (LSU) of Veterinary Medicine has embarked on a significant growth phase that has created several tenure-track faculty positions in the area of molecular pathogenesis. Applications are sought from candidates with research interests that strengthen or complement the Department's current strengths in bacterial, parasitic, and viral pathogenesis, including host immune responses to these agents. The Department has close ties with the LSU Agricultural Center, the National Hansen's Disease Center, Tulane Regional Primate Center and LSU Medical Centers in Shreveport and New Orleans. The School of Veterinary Medicine is an active participant in Louisiana State University's Information Technology and Biotechnology initiatives. The Department houses modern research laboratories enhanced by centralized core facilities for nucleic acid sequencing, hybridoma production, flow cytometry, quantitative PCR and microarray analyses, laser capture microdissection, fluorescence and electron microscopy, and BL-3 laboratory suites. More information on the Department is available at website: <http://www.vetmed.lsu.edu/pbs/> or contact **Dr. Ron Thune, PBS Department Head at Telephone: 225-578-9680 or e-mail: thune@mail.vetmed.lsu.edu**.

Applicants must possess a Ph.D. in an area related to disease pathogenesis at the cellular and/or the molecular level and have postdoctoral training related to molecular pathogenesis. Successful applicants will be expected to establish outstanding independent research programs that will attract continued extramural funding and to participate in the teaching mission of the Department. As part of the Department's emphasis on the growth of its research program, highly competitive salary and startup packages are available. Appointments will be at the ASSISTANT or ASSOCIATE PROFESSOR levels, depending on experience. Interested candidates should submit curriculum vitae, a statement of research interests along with future research goals, and the names, postal and e-mail addresses, and phone numbers of at least three references to the address below. Review of the applications will begin on September 15, 2002, and will continue until all positions are filled. Submit application to:

**Dr. David Horohov, Chair
Faculty Search Committee
Department of Pathobiological Sciences
School of Veterinary Medicine
Louisiana State University
Baton Rouge, LA 70803**

RESEARCH ASSISTANT PROFESSOR Research Track: Physiology

The Department of Physiology at the University of Pennsylvania's School of Medicine seeks candidates for a Research Assistant Professor position in the non-tenure-track. Applicants must have a Ph.D. or equivalent degree and have evidence of research experience in cell culture and analyses of cellular proteins and lipids.

The successful candidate will be expected to develop an independent research program in biology of the lung surfactant system and will also be responsible for the direction of the cell culture core facilities and for participating in collaborative research programs of the Institute for Environmental Medicine.

Please submit curriculum vitae, a brief statement of research interests, and three letters of reference by September 15, 2002, to:

**Colleen O'Brien
Institute for Environmental Medicine
University of Pennsylvania
3620 Hamilton Walk
Philadelphia, PA 19104-6068
E-mail: colleen@mail.med.upenn.edu
FAX: 215-898-0868**

The University of Pennsylvania is an Equal Opportunity, Affirmative Action Employer. Women and minority candidates are strongly encouraged to apply.



VETENSKAPSRÅDET
THE SWEDISH RESEARCH COUNCIL

The Swedish Research Council has a national responsibility for the development of Swedish basic research and information about research. The Council prioritises and finances basic research of the highest scientific quality in all fields of science. The goal is to ensure that Sweden holds a leading position as a nation engaged in research.

The Swedish Research Council is a public agency under the auspices of the Ministry of Education and Science. The secretariat contains about 130 persons.

APPLICATIONS FOR SENIOR RESEARCH POSITION GRANTS IN BIOSCIENCE AND BIOTECHNOLOGY

The Swedish Research Council announces five Senior Research Position Grants, specifically within the following areas:

Medical Protein Chemistry
Clinical Molecular Biology
Biotechnology
Cell and Molecular Biology
Organismic Biology within the Natural Sciences

Research fellows are expected to hold a PhD. Applicants should recently have been established as independent scientists, with responsibility for PhD students and/or postdoctoral fellows. Applicants should not yet have been appointed professor. Particular emphasis will be placed on the scientific merits of the applicants.

Applicants should indicate the name of the department where he or she wishes to have the appointment. Appointments must be at a Swedish university. Applicants must ensure that the Swedish university is prepared to accept the appointment. The Swedish Research Council will fund the position for a maximum of 6 years. Final appointment will be made by the individual universities and salary agreements will be made locally.

Application forms and information can be obtained from the Swedish Research Council's website <http://www.vr.se>

Deadline for application is September 20, 2002. The application should be sent to: The Swedish Research Council, SE-103 78 Stockholm, Sweden.



SENIOR FACULTY POSITION IN TOXICOGENOMICS University of Alaska Fairbanks

The University of Alaska Fairbanks invites applications for a senior-level tenure-track faculty position in toxicogenomics at the full or associate professor level.

The successful applicant for this position will be expected to provide research leadership for a statewide research program in toxicogenomics, which is initially funded through a BRIN (Biomedical Research Infrastructure Network) (<http://www.alaska.edu/brin/>) grant from the National Center for Research Resources (of the National Institutes of Health). We seek applicants in all areas of molecular toxicology but are particularly interested in individuals who use a proteomics approach and have an interest in toxicology of subsistence species. We offer a competitive start-up package to initiate this new research program. Applicants must have a funded R01 or equivalent research grant.

This position is a joint appointment between the Institute of Arctic Biology (IAB) and the Department of Biology and Wildlife (B&W) (<http://mercury.bio.uaf.edu/>). Tenure resides within the department, which is part of the College of Science, Engineering and Mathematics. Tenure-track faculty are expected to teach and advise graduate and undergraduate students, most faculty teach two formal courses each academic year. IAB emphasizes research on life sciences at high latitudes including ecosystems, wildlife, biology, physiological and biomedical sciences, and cellular and molecular biology. IAB and B&W currently have 30 faculty and 20 resident Research Associates.

To apply, send a UA applicant form, letter of application, curriculum vitae, statements of research plans; and teaching philosophy; and arrange for at least three supporting letters to be submitted to: **Gerry Plumley c/o UA Human Resources, P.O. Box 757860, Fairbanks, AK 99775-7860; Fax: 907-474-5859; email: fyjobs@uaf.edu**. Review of applications will begin 15 September 2002 and continue until the position is filled.

A signed UA applicant form must be submitted before any candidate can be considered (Please reference **REQ# FF247900-01** and **PCN 247900**). The form can be downloaded at (http://www.alaska.edu/hr/forms/hr_employmentforms.xml). Specific inquiries concerning the position should be emailed to Gerry Plumley at (fffgp@uaf.edu).

THE UNIVERSITY OF ALASKA IS AN EEO/AA EMPLOYER AND EDUCATIONAL INSTITUTION. Persons hired by UA must comply with the provisions of the Immigration Act of 1990 and are expected to possess a valid social security number. Your application for employment with the University of Alaska is subject to public disclosure under the Alaska Public Records Act. Women and minorities are encouraged to apply. Applicants needing reasonable accommodation to participate in the application and screening process should contact the Assistant Director at 474-6259.

Postdoctoral or Postmaster's Research Position Analytical Aerosol Spectroscopy Oak Ridge National Laboratory

The Environmental Sciences Division (<http://www.esd.gov>) at Oak Ridge National Laboratory (<http://www.ornl.gov>) has an immediate opening for a post-graduate (doctoral or master degree) level researcher in the area of analytical aerosol spectroscopy. The candidate should have a Ph.D. or M.S. degree in chemistry, physics, and/or atmospheric science granted within the past 5 years. Post-graduate research experience is preferred, but not required.

The applicant should be familiar with Class III and IV lasers, laser spectroscopy, charge coupled devices, and aerosol measurement using optical and/or differential mobility analyzer techniques. Hands-on experience with monodisperse aerosol generation is preferred, but not required. The successful candidate will have an opportunity to be involved in a number of research projects employing laser-based spectroscopy and optical diagnostics techniques for aerosol measurements. Currently, the aerosol research group at ORNL is comprised of scientists of diverse background engaged in research associated with atmospheric aerosols, combustion, engine emissions, and possible links between exposure to aerosols and human health effects. The work will be unclassified and not require a security clearance.

Send a curriculum vitae, a description of research accomplishments and interests, and the names and telephone numbers of three references to: **Dr. Meng-Dawn Cheng, Environmental Sciences, Oak Ridge National Laboratory, P.O. Box 2008, Oak Ridge, TN 37831-6038; Phone: 865-241-5918; Fax: 865-576-8646; e-mail: chengmd@ornl.gov**. Please reference the position title and number (**ORNL02-21-ESD**), when corresponding about this position.

These appointments will be offered through the ORNL Postdoctoral Research Associates Program (<http://www.ornl.gov/orise/edu/postgrad/ornlpdoc.htm>) and/or the ORNL Postmaster's Research Participation Program (<http://www.ornl.gov/orise/edu/postgrad/ornlpmas.htm>). These programs are open to all qualified U.S. and non-U.S. citizens without regard to race, color, age, religion, sex national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran. ORNL, a multipurpose research facility managed by UT-Battelle, LLC, for the U.S. Department of Energy, is an Equal Opportunity Employer committed to building and maintaining a diverse work force.



CALIFORNIA INSTITUTE OF TECHNOLOGY Division of Engineering and Applied Science

The Division of Engineering and Applied Science at the California Institute of Technology invites applications and nominations for a tenure-track faculty position at the assistant professor level in the academic program of Environmental Science and Engineering.

The primary area of interest is Environmental Fluid Mechanics. We are seeking an individual who has an outstanding research record in fluid mechanics applied to environmental systems and who has a commitment to teaching and research in the environmental sciences. Possible research areas in environmental fluid mechanics include, but may not be limited to: hydrology, environmental transport phenomena, hydrologic transport processes (in rivers, lakes, estuaries, and groundwater), physical oceanography, atmospheric dynamics, computational fluid dynamics, multiphase flow, and sediment transport processes. Interested candidates are asked to complete the on-line application summary at:

ENVIRONMENTAL FLUID MECHANICS
<http://www.eas.caltech.edu/env-fluids>

Candidates with a particular interest and research focus on fluid dynamics and a preference for experimental work or candidates with a research focus on large-scale atmosphere or ocean dynamics are informed that companion invitations for these areas are available at:

FLUID MECHANICS
<http://www.galcit.caltech.edu/fluids-search>

ATMOSPHERIC SCIENCE
http://www.gps.caltech.edu/positions/pos_asstprof_atmos.html

OCEANOGRAPHY
http://www.gps.caltech.edu/positions/pos_asstprof_ocean.html

Initial appointments at the Assistant Professor level are for four years and contingent on completion of the PhD degree. Exceptionally qualified applicants at the associate or full professor level are also encouraged to apply.



CALTECH DIVISION OF ENGINEERING & APPLIED SCIENCE

Caltech is an Equal-Opportunity/Affirmative-Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

A unique postdoctoral experience at the cutting-edge of science

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Postdoctoral Scientists

2 posts in Translational Science

Based US (Dana-Farber Cancer Institute, Boston or Memorial Sloan-Kettering Cancer Center, New York) & UK (Alderley Park, nr. Manchester)

These posts represent a unique, exciting opportunity to work closely with two of the world's leading cancer-specialist scientists. You will also have the opportunity to spend a proportion of your time at our state-of-the art cancer research facilities in the UK.

AstraZeneca is recognised for developing innovative and effective treatments for a number of diseases, and we have been especially successful in bringing forward novel cancer therapies. We are committed to maintaining our position as a global oncology leader, and are exploring a variety of new approaches to tackle cancer. Modulation of the cell cycle is an area of particular interest and we are investigating a variety of cell cycle targets. Candidate drugs exploiting multiple cell cycle targets will soon be entering clinical development.

As part of our major commitment to the development of therapies targeting the cell cycle, we are seeking two post-doctoral scientists to work in leading US laboratories to support the translational science work for these exciting candidate drugs.

You will study cell cycle specific kinases as novel targets for cancer therapy and, in particular, will undertake translational research in this area. Ideal candidates will be skilled in molecular and cell biology. Major objectives will be to develop assays to monitor the effects of these drugs in patients and to identify key molecular determinants that can be used to predict response. In addition, work will assess the potential synergy of these drugs with standard chemotherapy agents and define mechanisms of these synergistic interactions.

These positions, funded by AstraZeneca, will allow a unique post-doctoral experience in both academia and industry. Scientists will work primarily in an academic research laboratory affiliated with a major US cancer center. In addition they will also spend a proportion of their time at AstraZeneca's Cancer Research facilities, where collaboration with AstraZeneca scientists will facilitate the translational work necessary for the clinical development of these exciting new agents.

For further information please contact:

Dr Geoffrey Shapiro - Department of Adult Oncology, Dana-Farber Cancer Institute, Harvard Medical School, Boston. (Geoffrey_S Shapiro@dfci.harvard.edu. Phone: (001) 617-632-4942. Fax: 617-632-5998)

Dr Gary Schwartz - Department of Medicine, Laboratory of New Drug Development, Memorial Sloan-Kettering Cancer Center, New York. (schwartzg@msskcc.org. Phone: (001) 212-639-8324. Fax: 212-717-3320)

To apply, please email astrazeneca@barkad.co.uk with a letter of interest, your Curriculum Vitae, and contact information with three references, quoting ref CIR/PDTrans/NJ.

Closing date: Friday 30 August 2002.

For more information about our organisation, visit our website at www.astrazeneca.co.uk

AstraZeneca 

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DEAN COLLEGE OF MATHEMATICAL AND PHYSICAL SCIENCES

The Ohio State University invites nominations and applications for the position of Dean of the College of Mathematical and Physical Sciences. The Dean will have a solid base on which to build increased national and international standing and, as the College's Chief Executive Officer, will report directly to the Executive Vice President and Provost of the University.

The University has implemented an Academic Plan to enhance academic excellence and to raise the standards of colleges, departments, centers, and institutes. The University is strongly committed to diversity, a cornerstone of the Academic Plan, and seeks an individual with a strong commitment to success in this area.

Qualifications for the position include a distinguished record in research and teaching plus demonstrated leadership and administrative ability. Candidates must qualify for a tenured appointment as Professor in one of the departments in the College. The College includes six departments: Astronomy, Chemistry, Geological Sciences, Mathematics, Physics, and Statistics, in addition to several cross-disciplinary degree programs, research centers, and institutes. The College has a faculty of 225 and an annual budget of \$80 million.

The position is available July 1, 2003. Salary and other considerations will be competitive and consistent with the University's commitment to recruiting the best-qualified individual. **To assure full consideration, applications and nominations should be received by October 15, 2002.** The Search Committee will begin screening dossiers on that date and will continue to receive applications until the Dean is selected.

Applications and nominations should be addressed to:

Chairperson, MAPS Dean Search Committee, Office of Academic Affairs, The Ohio State University, 203 Bricker Hall, 190 North Oval Mall, Columbus, OH 43210-1358

Website for the Search: <http://www.mps.ohio-state.edu/deansearch>. For further information, contact Molly Davis, Office of Academic Affairs, at 614/292-5881 or at Davis.436@osu.edu.

The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and individuals with disabilities are encouraged to apply.



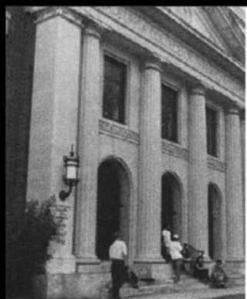
A postdoctoral position is available at the **MIT Program in Media Arts and Sciences** in the area of chemical and nanostructure synthesis. The work falls within the newly created NSF Center for Bits and Atoms, in the Molecular Machines group of **Professor Joseph Jacobson**. The research will involve organic, nanoparticle, or nanostructure synthesis, as well as a large variety of characterization techniques. The Center for Bits and Atoms presents a unique environment in which to pursue nanoscience research, offering an interdisciplinary department composed of scientists, engineers, and artists, which interacts closely with industry. Candidates should have a Ph.D. with a background involving organic, inorganic, or nanomaterials synthetic work and analysis. A materials background is desired but not necessary.

More information about Molecular Machines can be viewed at website: www.media.mit.edu/molecular

Interested candidates should send their resumes in plain text form electronically to:

**Prof. Joseph Jacobson
Center for Bits and Atoms
MIT Bldg. E15
Cambridge, MA 02139
resumes@media.mit.edu**

CHAIR, DEPARTMENT OF PHARMACEUTICAL SCIENCES www.usip.edu



USP UNIVERSITY OF THE
SCIENCES IN
PHILADELPHIA

Philadelphia College of Pharmacy, the founding college of University of the Sciences in Philadelphia invites applications and nominations for the position of Chair, Department of Pharmaceutical Sciences. The successful candidate will have excellent interpersonal and leadership skills and will have the vision and ability to bring the department to the next level of national recognition and achievement.

The department consists of seven full-time faculty in the pharmaceuticals division, six full-time faculty in the pharmacology/toxicology division, and approximately 32 graduate students. The department has an AALAC licensed vivarium and ongoing NIH research grants and industry contracts. The department has Ph.D. and M.S. programs in pharmaceuticals, pharmacology/toxicology, and B.S. programs in pharmacology/toxicology, and pharmaceutical technology. The department also has shared responsibilities with the Department of Pharmacy Practice for the Doctor of Pharmacy Program. The Chair is responsible for the recruitment and development of faculty to achieve the teaching, research and service missions of the department, college, and university. The chair is also responsible for developing and administering budgets, and participates in leadership and planning at the college and university levels.

Applicants must have a Ph.D. in the pharmaceutical or biomedical sciences and should possess a distinguished record of teaching, research and service commensurate with the rank of Professor. All appropriate disciplines will be accepted, but additional consideration will be given to candidates who have interests in pharmaceutical applications of biotechnology. Preference will be given to candidates with experience of mentoring graduate students and teaching at the graduate and undergraduate levels.

Review of applications will begin immediately and will continue until the position is filled. For additional information about USP see our web site at www.usip.edu. Applicants should send a letter of application, curriculum vitae, and the names of three references by electronic or U.S. mail to: **Clyde Ofner, Ph.D., Chair, Search Committee, University of the Sciences in Philadelphia, Philadelphia College of Pharmacy, 600 South 43rd Street, Philadelphia, PA 19104, c.ofner@usip.edu**

An Equal Opportunity/Affirmative Action Employer

Postdoctoral Research Position, Portland, Oregon, USA

Applications are invited for an NIH-funded position within the Neurobiology Department of Dr Roger P. Simon at the Robert S. Dow Neurobiology Laboratories. We seek highly motivated candidates who possess strong communication skills, seek responsibility and work well within a team. The project will focus on the cellular and molecular mechanisms of brain injury associated with neurological diseases such as epilepsy. Candidates should have a Ph.D. and a background in neurological disease modeling as well as experience with relevant biochemical, pharmacological and molecular biological techniques. The state-of-the-art facilities are located close to the neuroscience community at Oregon Health Sciences University and the position comes with a competitive salary and benefits. For further inquiries contact: Dr David C. Henshall dhenshall@downeurobiology.org.

Interested candidates should email a resume to vowen@lhs.org. Please reference position number 069338.



**Vanderbilt University Medical Center
Faculty Positions in Cell and
Developmental Biology**

The Department of Cell and Developmental Biology invites applications for several tenure-track positions at the rank of Assistant/Associate Professor. Our department covers a broad range of topics including cellular biology, cellular signaling and trafficking, cell cycle regulation, neurobiology, developmental biology and stem cell biology. Cell biologists using cellular, molecular, biochemical and/or genetic approaches are encouraged to apply. Candidates must have a Ph. D. and/or M. D. degree, at least two years postdoctoral experience, a strong publication record and strong potential for extramural funding evident. Successful candidates will receive substantial start-up packages and be housed in newly constructed/renovated facilities. In addition, there is a strong institutional commitment to core facilities, graduate programs, and an interdisciplinary environment.

Complete applications should include curriculum vitae, reprints of recent publications, a brief statement of present and future research plans, and three letters of recommendation, solicited by the applicant. Review of applications will begin October 1, 2002, and will continue until the positions are filled. Please send materials to: **Susan R. Wente, Ph. D., Professor and Chair, Department of Cell and Developmental Biology, Vanderbilt University Medical Center, 3120A Medical Research Building III, Nashville, TN 37232-8240.**

Vanderbilt University Medical Center is strongly committed to diversity in attracting faculty to fill these positions and is an Affirmative Action, Equal Opportunity Employer.



**The Ernest Gallo Clinic
and Research Center, a
biomedical facility
affiliated with the
University of California,
San Francisco, has an
immediate opening for an
outstanding:**

**Research Scientist/
Postdoctoral Fellow**

The successful candidate will have a Doctoral degree with training in molecular biology, genetics and/or neuroscience; ability to work independently; and excellent interpersonal/communication skills. Experience with behavioral genetics is highly desired. Salary is commensurate with experience and training. Send CV and the names, addresses and telephone numbers of three references to:

Dr. Monica Moore
c/o Human Resources
5858 Horton Street, Suite 200
Emeryville, CA 94608
hr@egcrc.net
(specify position in subject)
or Fax: (510) 601-7943

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It's who we are.*

Employment opportunities in PA

Merck & Co., Inc., is a leading research-driven pharmaceutical products company. Recently ranked in Fortune's "100 Best Companies to Work for in America," Merck & Co., Inc., discovers, develops, manufactures and markets a broad range of innovative products. We currently have several exciting opportunities for qualified candidates to join our team in our West Point, PA location of Merck Research Laboratories.

SENIOR BEHAVIORAL NEUROBIOLOGIST

Job Code: SC1000535

The Department of Neuroscience is currently seeking a behavioral neurobiologist to join our team. The successful candidate will be responsible for behavioral neuroscience support of novel therapeutic approaches in the neurodegenerative and neuropsychiatric areas. Responsibilities will include establishing and validating in vivo behavioral studies. The successful candidate will also conduct and supervise studies in support of ongoing efforts and characterize new approaches for the treatment of neuroscience related disorders.

A Ph.D. in behavioral neuroscience or related discipline, 2+ years of post-doctoral experience in an academic or industrial basic research environment, experience with a broad variety of experimental behavioral paradigms, and the ability to work effectively in both an independent and team environment are required.

NEUROSCIENCE STAFF BIOLOGISTS

Job Code: BIO000108

Job Code: SC1000527

In these positions the successful candidates will establish and validate relevant models/assays, conduct studies in support of ongoing efforts and characterize new approaches for the treatment of neuroscience related disorders.

Two positions are available (**Job Code: BIO000108**) for qualified BS/MS behavioral neurobiology scientists. An additional position is available for a qualified BS/MS scientist with experience in electrophysiology and/or molecular/cellular biology (**Job Code: SC1000527**).

SENIOR ASSAY DEVELOPMENT SCIENTIST

Job Code: BIO000130

The Department of Automated Biotechnology has a high-profile opportunity for outstanding individuals with a range of talents from various scientific disciplines who have drive, motivation and interest in drug discovery using advanced technologies. You will be responsible for the development of novel cell-based assays and implementation of assay miniaturization technologies for ultra high throughput screening.

A publication record demonstrating an in-depth understanding of cellular signal transduction (and current approaches to the assay of these pathways) is required. In addition, you must have a Ph.D. or equivalent, 2+ years of post-doctoral experience in academia or industry, 2+ years' experience in a biotech or pharmaceutical HTS environment, strong communication and problem-solving skills, and the ability to work and contribute to a team-oriented environment. Hands-on experience with fluorescence microscopy, cellular and biochemical assays, cell-line development, and sophisticated data analysis tools is necessary.

In return for your considerable skills, we offer an excellent salary and comprehensive benefits program, including tuition reimbursement and one of the best 401(k) plans in the nation, as well as opportunities for personal growth. Please visit us online at: www.merck.com/careers and search for job code of the position you are interested in applying for. We are an Equal Opportunity Employer, M/F/D/V.



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THE CENTER FOR PLANT CELL BIOLOGY IN THE UCR GENOMICS INSTITUTE

The University of California is launching a new center for Plant Cell Biology in the Genomics Institute. Recruitment of the following positions is part of this new initiative, and continued growth in this area is expected with additional faculty positions to follow. The Director of the UCR Genomics Institute is Dr. Michael T. Clegg and the Director of the center for Plant Cell Biology is Dr. Natasha Raikhel.

Faculty Positions in the Center for Plant Cell Biology

The Department of Botany and Plant Sciences invites applications for an **ASSISTANT** and an **ASSOCIATE PROFESSOR** in plant cell biology. The candidates will join the new center for Plant Cell Biology (CEPCEB) and an active and collegial department with broad interests in plant biology. Individuals should work at the forefront of contemporary plant cell biology and utilize a multidisciplinary approach in an area such as, but not limited to, cell cycle regulation, cell wall and/or cytoskeleton dynamics and function, programmed cell death, protein targeting, or signal transduction. The successful candidate will be expected to establish and maintain a vigorous, innovative research program, have a strong commitment to excellence in teaching at the undergraduate and graduate levels, and participate in departmental and interdepartmental graduate programs. The positions include an appointment in the Agricultural Experimental Station and will be available July 1, 2003. Applicants must hold a PhD, and postdoctoral experience is essential for candidates at the assistant level. CEPCEB is part of the Institute of Genomics with excellent state-of-the-art facilities and technical support.

Review of applications will begin October 1, 2002 and continue until the positions are filled. Interested individuals should: (1) submit a curriculum vitae, (2) provide a statement of research interests, and (3) have letters from three references sent (assistant level) or provide names and addresses of three references (associate level) to: **Dr. Eugene Nothnagel, Chair, Department of Botany and Plant Sciences-072, University of California, Riverside, CA 92521-0124**. For additional information about CEPCEB, the Department and campus visit: www.cnas.ucr.edu.

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

POSTDOCTORAL FELLOWSHIPS IN CANCER RESEARCH

The M. D. Anderson Cancer Center Odyssey Program sponsors high quality postdoctoral research at the University of Texas M. D. Anderson Cancer Center. Odyssey Fellowships or Odyssey Scholarships are awarded, depending upon the level of experience, to postdoctoral applicants with the strongest credentials and most promising proposals. The winners of the Odyssey competition receive up to 3 years of support to explore novel areas of clinical or basic cancer research while preparing for successful and independent careers. Provided support includes a generous stipend and a yearly research allowance for supplies, small equipment, and meeting attendance.

Application deadlines: M. D. Anderson Odyssey Fellows:

- Notice of intent: March 18, 2002
- Application deadline: April 1, 2002
- Notice of intent: September 16, 2002
- Second application deadline: October 1, 2002

M. D. Anderson Odyssey Scholars:

- Notice of intent: 3 weeks before submitting complete application
- Application deadline: No fixed deadline

For further information, consult our web site:

<http://www.mdanderson.org/odyssey>

MDACC is an Equal Opportunity Employer, smoke-free environment.

THE UNIVERSITY OF TEXAS
**MD ANDERSON
CANCER CENTER**

Making Cancer History™



University of Zurich

The Faculty of Science (Mathematisch-naturwissenschaftliche Fakultät) of the University of Zurich, Switzerland, invites applications for the position of a

Professor in Computational Science

(tenured or tenure track)

The successful candidate is expected to have a broad understanding of interdisciplinary research in Computational Science. She/he should both have a strong research record in one of the fields of science such as mathematics, physics, chemistry, biochemistry, biology or geography and should have demonstrated the development of applications and methods to new and challenging problems. A strong record in both technical skills and leadership abilities is desirable. The newly elected professor will conduct research in computational aspects of her/his specialty and develop and lead an interdisciplinary teaching program in computational science in cooperation with various computational and information science experts of the University. She or he will have a joint appointment with the Department related to her/his field of expertise and the Department of Information Technology (Institut für Informatik) of the University. In addition, the elected person is expected to establish interuniversity interactions with related groups in Computational Science at ETH Zurich.

Please submit a detailed curriculum vitae including information on teaching experience, a statement of research interests emphasizing computational science aspects and a list of publications before September 30, 2002 to Prof. Dr. K. Brassel, Dekan der Mathematisch-naturwissenschaftlichen Fakultät der Universität Zurich, Winterthurerstrasse 190, CH-8057 Zurich. At the same time please email these materials in a single Word- or PDF-file to jobsmnf@zuv.unizh.ch. For further information, please consult our web site at <http://www.mnf.unizh.ch> or contact the dean's office at schwand@zuv.unizh.ch.

PROGRAM DIRECTOR ARCTIC SYSTEM SCIENCE PROGRAM NATIONAL SCIENCE FOUNDATION ARLINGTON, VA 22230

NSF's Office of Polar Programs is seeking qualified applicants for the position of **Program Director in the Arctic System Science Program**. The Program Director will have primary responsibilities involving proposal evaluation, project development and support, program planning, and related administrative duties. Additional responsibilities will include assisting coordination of education efforts and advising on logistics requirements of the Arctic system science community.

Applicants must have a Ph.D. or equivalent experience in a science discipline. Six years of successful research experience beyond the Ph.D. are required.

Please refer to announcements **E20020146-Perm** and **E20020147-Rotator**, for position requirements and application procedures located on NSF's Division of Human Resource Management website at <http://www.nsf.gov/home/menus/jobs.htm>. Applicants may also obtain a copy of the announcements by contacting **Myra Loyd** on 703-292-4363. Hearing impaired individuals may call **TDD (703) 292-8044**. Applications must be received by **September 5, 2002**.

The National Science Foundation provides reasonable accommodations to applicants with disabilities on a case-by-case basis. If you need a reasonable accommodation for any part of the application and hiring process, please notify the point of contact listed on this announcement.

NSF is an Equal Opportunity Employer committed to employing highly qualified staff that reflects the diversity of our nation.



Deputy Director

Division of Extramural Research and Training
National Institute of Environmental Health Sciences
National Institutes of Health
Research Triangle Park, North Carolina

The National Institute of Environmental Health Sciences (NIEHS), located in central North Carolina, is accepting applications for the position of Deputy Director in the Division of Extramural Research and Training (DERT). As one of the preeminent centers for environmental health research in the world, NIEHS conducts and administers research programs that seek to understand the relationship between the environment and human health and to identify causes of and ways to prevent environmentally related diseases and disorders. Through grants, cooperative agreements, and contracts, the DERT administers research programs carried out by institutions and organizations that receive research support from NIEHS, and its extramural scientists help establish areas of environmental health research emphasis by identifying research that has the potential of alleviating the burden of human illness and dysfunction from environmental causes, nationally and internationally. More information about NIEHS and DERT can be found at www.niehs.nih.gov.

This is a Federal civilian position with excellent pay and benefits and numerous opportunities for personal and professional growth, as well as a way to make a substantial contribution to research in the environmental health sciences. Candidates must have a doctoral degree and a strong background in current science related to environmental health. Candidates must also have substantial experience in extramural research programs, and knowledge of NIH policy as it relates to initiating and managing such programs. They should also have strong interpersonal skills and the ability to provide leadership in science, management, and policy development. The incumbent will work with the Director, DERT, to represent NIEHS at the NIH and to the extramural community, and thus must have the ability to manage from a big picture perspective. Salary will be commensurate with the qualifications and experience of the candidate.

A recruitment bonus of up to 25% of base Federal pay may be available to a non-Federal applicant selected for this position, subject to individual approval. A relocation bonus of up to 25% of base pay may be available to a permanent Federal employee who must relocate to accept this position, subject to individual approval.

The vacancy announcement (NIEHS-02-35), which includes application procedures, is available online (www.niehs.nih.gov/vacancy/vacancy.htm) or may be obtained by calling 919-541-0218 or writing the NIEHS Human Resources Management Branch, P.O. Box 12233 (MD-NH-1), Research Triangle Park, NC 27709.

For additional information about the position, you may contact:
Dr. Anne P. Sassaman, 919-541-4878, or sassaman@niehs.nih.gov.



NIEHS

NIH/NIEHS is an Equal Opportunity Employer

APPLICATIONS MUST BE POSTMARKED BY AUGUST 30, 2002.



**NATIONAL INSTITUTES OF HEALTH
NATIONAL EYE INSTITUTE**

Job Opportunities

The National Eye Institute Intramural Program at the NIH campus, Bethesda, MD., is seeking highly qualified Postdoctoral Fellows, Research Associates and Staff Scientists in the following areas:

- **Molecular Biology**
- **Cell Biology**
- **Immunology**
- **Psychophysics**
- **Biochemistry**
- **Genetics**

Salaries range from \$30,800 to \$125,700 per annum, based on experience and type of appointment.

NEI offers an extensive benefits package that you may be eligible for, depending on the appointment mechanisms: Health Benefits, Life Insurance, Retirement Benefits, Annual and Sick Leave, Formal Training Program, Recruitment Bonus, Retention Allowance, Relocation Allowance, Loan Repayment Program, and Travel Benefits.

Candidates interested in specific job opportunities at the NEI may visit the NEI web site at <http://www.nei.nih.gov> listing the most current positions available.

NIH/NEI is an Equal Opportunity Employer

Staff Scientist Position Biophysics of Myosin and Muscle Fibers Division of Intramural Research, NHLBI

The Laboratory of Molecular Cardiology is accepting applications for a Staff Scientist position in the Section of Molecular Physiology. The successful candidate will work under the direction of the Chief of the Section, Dr. Neal Epstein. The applicant should have extensive knowledge of the biophysical properties of contractile proteins, especially muscle myosins. A thorough background in kinetics, relaxation theory, protein chemistry and experience in its application to muscle mechanics is required. The selected applicant will work in conjunction with the molecular genetics portion of the group to study normal cardiac physiology and pathophysiology at the cellular and organ level. Experience in developing and modifying instrumentation for muscle mechanical experiments is an advantage. A successful record of publication in peer reviewed journals is a requirement.

The successful candidate will be offered a competitive salary commensurate with experience. Appointee must be a US citizen, resident alien, or non-resident alien with a valid employment authorized visa.

Applicants should submit curriculum vitae and bibliography and arrange for three letters of reference to be sent to:

**Mr. Donald Ouellette, Human Resources Branch
National Heart, Lung, and Blood Institute
31 Center Drive, MSC 2484
Building 31, Room 5A28
Bethesda, MD 20892-2482**

Please include vacancy identifier, **HL-02-0094** on ALL correspondence. Applications must be received no later than **August 23, 2002**.

NIH is an Equal Opportunity Employer. Applications from women, minorities, and persons with disabilities are strongly encouraged. The NHLBI/NIH is a smoke-free workplace.

POSITIONS OPEN

NEUROSCIENTIST: The University of South Dakota School of Medicine invites applications to fill the tenure-track position of **ASSISTANT or ASSOCIATE PROFESSOR**. We seek candidates who have research interests in systems, cellular, or molecular neuroscience, and who will be able to integrate into the Neuroscience Group within the Division of Basic Biomedical Sciences. The Neuroscience Group recently obtained a Center of Biomedical Research Excellence (COBRE) award for studies on the neural control of adaptive behavior, and information about the Group and the Division can be found at [website: http://www.usd.edu/neurogroup/](http://www.usd.edu/neurogroup/). Candidates must have a Ph.D., M.D., or equivalent, postdoctoral experience, and must show a high potential for external funding. The candidate will be expected to participate in the teaching responsibilities of the Division, including courses in the graduate and medical programs. Rank and salary will be commensurate with qualifications. Salary and startup packages are competitive. Please submit a curriculum vitae, brief statement of research and teaching goals, and names of three professional references to: **Ms. Carleen McNeely, Neuroscience Search Committee, Division of Basic Biomedical Sciences, University of South Dakota School of Medicine, Vermillion, SD 57069**. Review of applications will begin Sept. 16, 2002, and continue until the position is filled. *Equal Employment Opportunity/Affirmative Action Employer.*

STANFORD UNIVERSITY DEPARTMENT OF CHEMISTRY

Two positions are available for **TENURE-TRACK or TENURED FACULTY** appointments, open rank, in the general areas of organic chemistry or inorganic chemistry. Completed applications must be received by October 15, 2002. Appointment will commence on or after September 1, 2003. Applicants must be strongly motivated toward creative research and committed to teaching at the undergraduate and graduate levels.

All applications must include the following materials: current curriculum vitae and list of publications; brief statement of research interests, three pages or less; and (for junior candidates only) arrange to have three letters of reference sent on your behalf to the Chair of the appropriate search committee (see below).

Applications in the general areas of organic or inorganic chemistry should be addressed to the Chair of the appropriate search committee, as follows: **Chair, 2002-03 Organic Chemistry Search Committee or Chair, 2002-03 Inorganic Chemistry Search Committee, Department of Chemistry, Stanford University, Stanford, CA 94305-5080**. *Stanford University is an Equal Opportunity, Affirmative Action Employer. Women and minorities are particularly encouraged to apply.*

TEXAS A&M UNIVERSITY. The Department of Chemistry at Texas A&M University invites applications for a **TENURE-TRACK FACULTY POSITION** in Biological Chemistry, with an anticipated starting date of September 2003. Areas of research interest include, but are not limited to: structural biology, proteomics/protein chemistry, computational biology and bioinformatics, biopolymer design, chemistry of nucleic acids, biomembranes, and glycobiology. Applications at the Assistant Professor level are particularly sought, but outstanding senior candidates will also be considered. In addition to establishing a vigorous independent research program, the successful candidate will be expected to teach at the undergraduate and graduate levels. Candidates should submit curriculum vitae, a brief description of research plans (not to exceed five pages), and arrange for three letters of recommendation to be sent to: **Dr. Emile A. Schweikert, Head, Department of Chemistry, Texas A&M University, P.O. Box 30012, College Station, TX 77843-3012**. Review of applications will begin October 15, 2002, and will continue until the position is filled. *Texas A&M University is an Equal Opportunity/Affirmative Action Employer, and applications from underrepresented groups are especially encouraged.*

POSITIONS OPEN

DEPARTMENT HEAD Department of Microbiology, Immunology, and Pathology College of Veterinary Medicine and Biomedical Sciences Colorado State University

The College of Veterinary Medicine and Biomedical Sciences invites applications and nominations for the position of Head of the Department of Microbiology, Immunology, and Pathology ([website: http://www.cvmbs.colostate.edu](http://www.cvmbs.colostate.edu)). This position offers an exciting opportunity for an individual to assume leadership of a newly organized Department, comprised primarily of faculty and students from the former Departments of Microbiology and Pathology. The Department is committed to excellence in undergraduate, graduate, and professional veterinary medical education and advising, and has a strong reputation for innovation in instructional technology. The Department is internationally recognized for its research and service programs and activities; for example, the Faculty are major contributors to the CSU Program of Research and Scholarly Excellence in Infectious Diseases and to the veterinary pathology and diagnostic laboratory services in the James L. Voss Veterinary Teaching Hospital. The new Department Head will provide leadership, management, and mentorship as this new department builds on existing strengths and identifies new areas of opportunity for growth.

Applicants must have a Ph.D., D.V.M., M.D., or equivalent degree; demonstrated excellence in scholarly activity and research; experience in and a commitment to teaching and mentoring students; and must meet requirements for appointment as a Full Professor. Administrative experience is desirable. A letter of application, curriculum vitae, and list of three references, who may be contacted when appropriate, should be sent electronically or by post to the chair of the search committee:

**Dr. Terry M. Nett
Office of the Dean
College of Veterinary Medicine
and Biomedical Sciences
Colorado State University
Fort Collins, CO 80523-1601
E-mail: terry.nett@colostate.edu**

Review of applications will begin 1 October 2002, and continue until a suitable candidate is found.

Colorado State University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

RESEARCH ASSISTANT PROFESSOR Children's Memorial Institute for Education and Research (CMIER) Northwestern University Medical School

The Neurobiology Program at CMIER has an immediate opening for a Researcher at the level of Research Assistant Professor. Projects are focused on generation and use of various types of viral vectors harboring regulatable promoters that drive neurotrophic factor and anti-apoptotic genes. We are interested in approaches that ameliorate neurodegeneration, as well as in understanding the molecular and cellular effects of expressing transgenes in specific cells in the CNS. The laboratory is located in a new research building in the pleasant Lincoln Park area of Chicago. Abundant research funds and state-of-the-art equipment and facilities are available. Individual should hold a Ph.D. or an M.D. with at least two years of postdoctoral training. Particular consideration will be given to individuals with experience in molecular neuroscience or gene therapy. Salary is highly competitive and commensurate with experience.

Send curriculum vitae and names and e-mail addresses of three references to: **Martha C. Bohn, Ph.D., Co-Director of CMIER and Director of the CMIER Neurobiology Program, 2300 Children's Plaza, Box 209, Chicago, IL 60614**. FAX: 773-868-8066. E-mail: m-bohn@northwestern.edu. Website: http://www.northwestern.edu/nuin/faculty/Bohn_M_C/.

Individual must be qualified for employment in the U.S.A. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR Department of Pharmacology and Neuroscience University of North Texas Health Science Center

The Department of Pharmacology and Neuroscience at the University of North Texas Health Science Center, Fort Worth is seeking applications for two full-time tenure-track faculty positions at the Assistant/Associate Professor level. Successful applicants will be expected to develop an independent but interactive research program, an active graduate/postgraduate training program, and participate in the professional course offerings at the Department. The Department intends to expand its active and well-funded research and training programs in the areas of the neurobiology of aging, drug discovery, behavioral pharmacology, molecular pharmacology, and substance abuse/addiction. Applicants should submit a letter of intent, current curriculum vitae, and the names of at least three references to: **Dr. James W. Simpkins, Professor and Chair, Department of Pharmacology and Neuroscience, University of North Texas Health Science Center, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107-2699**.

The University of North Texas Health Science Center at Fort Worth enjoys a smoke-free campus and is an Equal Employment Opportunity/Affirmative Action Institution.

FACULTY POSITION YALE UNIVERSITY Department Of Molecular Biophysics and Biochemistry

The Department of Molecular Biophysics and Biochemistry seeks applications for an **ASSISTANT PROFESSOR** in the fields of biochemistry, molecular biology, and molecular genetics. Our department spans a broad range of areas, from structural to molecular biology, and is located in both the Faculty of Arts and Sciences and the School of Medicine of the University. Applicants should include curriculum vitae, a statement of research interests, and selected reprints or preprints. Three letters of reference should be forwarded by the deadline. Applications should be sent to:

**Faculty Search Committee (Biochemistry)
Department of Molecular
Biophysics and Biochemistry
Yale University
260 Whitney Avenue, P.O. Box 208114
New Haven, CT 06520-8114
Telephone: 203-432-5593**

Application deadline: October 1, 2002.

Yale University is an Affirmative Action/Equal Opportunity Employer.

A **POSTDOCTORAL OPPORTUNITY** is available at the National Institutes of Health to study vascular development using the zebrafish, a genetically accessible vertebrate with an externally developing, optically clear embryo that allows direct noninvasive observation and imaging of blood vessels throughout the animal. See [website: http://dir.nichd.nih.gov/lmg/uvu/WEINSLAB.html](http://dir.nichd.nih.gov/lmg/uvu/WEINSLAB.html) for more information. Environment, resources, and stipend support are excellent. Interested applicants with a Ph.D. or M.D. and less than five years of postdoctoral experience should send curriculum vitae, bibliography, cover letter with a brief description of research experience and interests, and the names of three references (with telephone numbers) to: **Brant Weinstein, LMG/NICHD, Building 6B, Room 309, 6 Center Drive, Bethesda, MD 20892, U.S.A.** Or to e-mail: flyingfish2@nih.gov. *NIH is an Equal Opportunity Employer.*

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE position is available immediately to study lipid and lipoprotein pathways relevant to age-related macular degeneration in human eye. Experience with the following techniques is desirable: confocal microscopy, electron microscopy, immunohistochemistry (LM/EM), biochemistry, molecular biology, and cell culture. Send curriculum vitae and names of three references to: **Christine A. Curcio, Ph.D., Department of Ophthalmology, University of Alabama at Birmingham 700 South 18th Street, Birmingham, AL 35294-0009**. FAX: 205-325-8634; e-mail: curcio@uab.edu.



FACULTY POSITIONS IN BIOINFORMATICS University of Alaska Fairbanks

We invite applications at all levels for our newly established Bioinformatics Program in the Department of Biology & Wildlife and the Institute of Arctic Biology (<http://mercury.bio.uaf.edu/>). We welcome candidates from any area of theoretical or experimental biology with relevance to Genomic, Ecological, Biomedical, or Evolutionary Bioinformatics.

The University of Alaska Fairbanks (UAF) has committed four new tenure-track positions to our Bioinformatics Program, that include faculty in Biology and Wildlife, and Mathematics at UAF. The Program will be linked to the Arctic Region Supercomputing Center in Fairbanks (<http://www.arsc.edu/>) and the Institute for Systems Biology in Seattle. In the present search, we seek 3 new tenure-track faculty; a senior faculty leader, the "UA President's Professorship in Bioinformatics," and two other faculty, who will develop independent, competitively funded research on the analysis and interpretation of complex data sets relevant to biological problems.

- The President's Professor in Bioinformatics will have the primary responsibility for developing a nationally visible Alaska Bioinformatics Program. We seek applicants with skills in interdisciplinary team leadership and a willingness and ability to serve as Program Director. Candidates with research expertise in genetic, nutritional, or behavioral aspects of human health, toxicogenomics, statistical genetics/statistical genomics, or genetic diversity/molecular evolution of Arctic populations are especially encouraged to apply. (PCN#247910)
- One Assistant or Associate Professor of Bioinformatics may have expertise in genomics, proteomics, toxicology, or other biomedical research subjects. (PCN #247896)
- One Assistant or Associate Professor of Bioinformatics may have expertise in ecological genetics, in evolutionary or population genetics, in spatial statistics, or in the analysis of spatial/temporal variability in biological data. (PCN #247890)

All UAF tenure-track faculty are expected to teach and advise graduate and undergraduate students. Most faculty in Biology and Wildlife teach two formal courses each academic year. A competitive package will include start-up funds, including support for software engineers or postdocs, who will work directly with the Bioinformatics Program, and access to our Core Facility for Nucleic Acid and Proteomic Research (<http://mercury.bio.uaf.edu/core>).

To apply, send a UA applicant form, letter of application, curriculum vitae, research statement, and teaching philosophy; and arrange for three supporting letters to be submitted to: Dr. George Hupp c/o UAF Human Resources, P.O. Box 757860, Fairbanks, AK 99775-7860; Fax: 907-474-5859; email: fjjobs@uaf.edu. A signed UA applicant form must be submitted (Please reference REQ # FF247890-01 and PCN # above). The form can be downloaded at (http://www.alaska.edu/hr/forms/hr_employmentforms.xml).

Review of applications will begin 15 September and continue until the position is filled. Specific inquiries concerning the positions should be sent to George Hupp at (George.Hupp@alaska.edu).

THE UNIVERSITY OF ALASKA IS AN EEO/AA EMPLOYER AND EDUCATIONAL INSTITUTION. Persons hired by UA must comply with the provisions of the Immigration Act of 1990 and are expected to possess a valid social security number. Your application for employment with the University of Alaska is subject to public disclosure under the Alaska Public Records Act. Women and minorities are encouraged to apply. Applicants needing reasonable accommodations to participate in the application and screening process should contact the Assistant Director at 474-6259.

Assistant Professor CELL BIOLOGY in the Department of Biological Sciences Simon Fraser University, British Columbia

The Department of Biological Sciences is seeking a tenure track faculty member in the area of **CELL BIOLOGY**. The appointment will be made at the Assistant Professor level with a start date on or after January 1, 2003. Any area of modern Cell Biology is of interest, but preference will be given to candidates who study functional aspects in cellular systems that bridge our current research strength at the subcellular and the organ and tissue levels (<http://www.sfu.ca/biology/>). The successful candidate will pursue a vigorous, externally funded research program that includes the training of graduate students. She or he also will be expected to develop upper division undergraduate and graduate courses in cell biology, and contribute to the teaching of the introductory course in Cell Biology. Review of applications will begin on September 3, 2002, and the search will remain active until the position is filled. Applicants should send a Curriculum Vitae, three representative reprints, a one-page summary of their research objectives, and three letters of reference to:

Dr. Norbert H. Haunerland, Chair
Department of Biological Sciences
Simon Fraser University
8888 University Blvd.
Burnaby, B.C. V5A 1S6
Canada
FAX 604-291-4312

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. The appointment is subject to final budgetary approval by the University.

Simon Fraser University, located in the greater Vancouver area, is committed to employment equity, welcomes diversity in the workplace, and encourages applications from all qualified individuals including women, members of visible minorities, aboriginal persons, and persons with disabilities.



Tenure-Track Investigator

The Oral Infection and Immunity Branch in NIDCR, NIH is recruiting an outstanding scientist for a tenure-track position. This investigator would be expected to develop an independent research program to explore the interface between orally relevant antigens, pathogens and the mucosal immune system. The ideal candidate would have experience in humoral, cellular and molecular immunology. Interests in mucosal immunity, oral tolerance, apoptosis, T cell regulation and/or cytokine impact on host defense will complement the existing multidisciplinary research in the Branch, which currently includes studies on oral microbiology, immunology and chronic inflammatory diseases. The Branch will provide excellent support for a cutting-edge research program, including access to core facilities and/or clinical research. The initial appointment is for 2 years and may be extended up to 6 years by mutual agreement while seeking tenure. The appointment is equivalent to an Assistant/Associate Professor and conversion to tenure requires demonstration of creativity and productivity as an independent scientist subject to rigorous scientific review. Candidates must have an advanced degree, Ph.D., D.D.S and/or M.D., at least three years of postdoctoral experience, and an outstanding publication record. This position also requires excellent writing and oral communication skills. Salary range for candidates is commensurate with training and experience.

Candidates should send a curriculum vitae, bibliography, brief statement of research interests and have three letters of reference sent to: **Esther Weiss, Human Resources Program, Bldg. 31, Room 2C19, NIDCR, NIH, DHHS, Bethesda, MD 20892** or email weisse@mail.nih.gov by September 13, 2002. Informal inquiries may be sent to **Dr. Sharon M. Wahl** at smwahl@dir.nidcr.nih.gov.

NIH is an Equal Opportunity Employer.

POSITIONS OPEN

Neurologist with expertise in Alzheimer's Disease. The University of Florida's College of Medicine and McKnight Brain Institute are seeking an **ACADEMIC NEUROLOGIST** to direct a major new campus-wide initiative to enhance research and clinical care in Alzheimer's Disease (AD). The Initiative will be supported by a designated endowment and other College and Institute funding sources. We are seeking a Neurologist with expertise in Alzheimer's Disease research and clinical care to occupy a tenured faculty position at the Associate to Full Professor level in the Department of Neurology. It is expected that this faculty will help lead the Alzheimer's Disease initiative at the University of Florida, and help establish an extramurally funded AD research program. The faculty will also participate in the Department's clinical and educational programs. Among the many additional resources available to aid in this recruitment, we have a state supported AD research fund and memory disorder clinic, internationally recognized graduate programs, in behavioral neurology and neuropsychology, NIH and VA funded cognitive/motor brain rehabilitation centers, AD drug development programs, and a growing number of faculty members working on AD research in neurology and neuroscience, pharmacology, and other basic and clinical science departments. The MBI-UF's vast array of high technology imaging and other core facilities (including a human brain tissue bank) will also be available to the successful applicant. The start date for this position is between January and July 2003. Salary depends upon academic rank. Applicants should be received by November 1, 2002. Candidates who are interested in this position are encouraged to send a letter describing their major research interest, curriculum vitae, and three letters of recommendation to: **Kenneth M. Heilman, M.D., Department of Neurology, University of Florida College of Medicine, P.O. Box 100236, Gainesville, FL 32610-0236.**

Gainesville is a delightful place to live and work, with excellent schools and health care. Land is abundant and housing is very reasonable. While the city is still small (urban population a little over 200,000) it has a metropolitan culture and cosmopolitan attitude. Snow skiing and ice skating are terrible in Gainesville, but out city is ideal for all other outdoor activities, including personal and spectator sports. *The University of Florida is an Equal Employment Opportunity/Affirmative Action Employer.*

RESEARCH ASSISTANT PROFESSORS (non-tenure-track) positions are available to study the human AIDS pathogen, *Toxoplasma gondii*. The Veterinary Molecular Biology Laboratory is seeking to expand its program in molecular parasitology with the addition of two senior positions. Qualified individuals will be expected to develop research programs within the broad goals of the laboratory and will participate in limited graduate and undergraduate instruction. These positions are funded by NIH with a competitive salary based on current NIH guidelines. Applicants should have a Ph.D. in a biomolecular related discipline and at least one year of postdoctoral experience. For complete application details see website: <http://www.montana.edu/level2/jobs.html> or contact: **Dr. Michael White at Veterinary Molecular Biology, Montana State University, Bozeman, MT 59717-3610. FAX: 406-994-4303. E-mail: uvmw@montana.edu. ADA/Affirmative Action/Equal Opportunity/Veteran's Preference.**

POSTDOCTORAL POSITIONS to investigate mechanisms of cortical dendritic differentiation in schizophrenia mouse models. Cell adhesion and growth factor signaling, and mutations in schizophrenia-candidate genes will be studied in transgenic mice and cell cultures. Applicants should have Ph.D. and experience in molecular biology or neuroscience. Primary appointment will be in one of two laboratories. Send curriculum vitae to: **Patricia F. Maness, Ph.D., Department of Biochemistry (e-mail: srclab@med.unc.edu) or A. S. LaMantia, Ph.D., UNC Neuroscience Center (e-mail: anthony.lamantia@med.unc.edu), at the University of North Carolina School of Medicine, Chapel Hill, NC 27599.**

POSITIONS OPEN

FACULTY POSITION Bacterial Pathogenesis

The Department of Molecular Virology and Microbiology at Baylor College of Medicine invites applications for a tenure-track faculty position in bacteriology at the **ASSISTANT PROFESSOR** level. All research interests will be considered, but applicants with an interest in the molecular pathogenesis of bacterial infections are especially sought. Applicants should have postdoctoral experience and demonstrated research productivity. The successful candidate will be expected to maintain an extramurally funded research program and to participate in graduate training. This is an opportunity to join a strong, interactive department in the rich scientific setting of the renowned Texas Medical Center. Current research interests of an exceptional faculty focus on microbial genomics and proteomics, viral and bacterial gene expression and pathogenesis, RNA and DNA viruses of human diseases, and vaccine evaluation. An attractive startup package, modern laboratory space, and access to outstanding core facilities are available. Send your curriculum vitae, names and contact information for three references, a statement of current research activities, a summary of future plans, and arrange to have three letters of recommendation sent by September 23, 2002, to: **Dr. Timothy Palzkill, Faculty Recruitment Committee, Department of Molecular Virology and Microbiology, Mail Stop: BCM280, Baylor College of Medicine, Houston, TX 77030. E-mail: mvm-facultypos2@bcm.tmc.edu. Baylor College of Medicine is an Affirmative Action/Equal Opportunity Employer.**

FACULTY POSITION Department Of Physics The University of Texas at Austin

The Department of Physics at the University of Texas at Austin invites applications for a tenure-track **ASSISTANT PROFESSORSHIP** starting in September 2003. In exceptional cases, a more senior appointment with tenure will be considered. This is a research and teaching position.

Applicants must have a Ph.D. (or equivalent) and should have a proven record of experimental research in biological physics, soft condensed matter, and/or nonlinear/non-equilibrium phenomena. The successful candidate will assume full teaching responsibilities in the Department of Physics. Prior teaching experience is desirable and excellent English language communication skills are required. Applicants should send curriculum vitae, a list of publications, a statement of research accomplishments, a research plan, and arrange for at least five letters of reference to be sent to: **Professor Roy Schwitters, Chairman, Department of Physics, RLM 5.208, The University of Texas at Austin, Austin, Texas 78712-1081. Review of completed applications will begin November 1, 2002, and will continue until the position is filled. The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION IN EXPERIMENTAL HEMATOLOGY

A Postdoctoral position is available in the Cell Manipulation Center of the Blood and Marrow Transplant Program at the MD Anderson Cancer Center. Projects include translational research in cellular immunotherapy, purification and *ex vivo* expansion of cord blood and other stem cells, and phenotype analysis of cultured cells by flow cytometry. A Ph.D. in cell biology or related field is essential. A background in dendritic cell biology and experience in flow cytometry analysis is desirable. Starting salary commensurate with experience.

Please submit a letter of interest and curriculum vitae to: **Corliss Denman, UT MD Anderson Cancer Center, Box 423, 1515 Holcombe Boulevard Houston, Texas 77030. FAX: 713-745-1278; e-mail: cdenman@mail.mdanderson.org. MD Anderson is an Equal Opportunity And Affirmative Action Employer. We encourage minorities and women to apply for this position.**

POSITIONS OPEN

FACULTY POSITION Bioinformatics of Microbial Systems

Montana State University Department of Microbiology invites applications for a tenure-track faculty position at the **ASSISTANT/ASSOCIATE PROFESSOR** level. We seek an individual with potential to establish or who currently has an established extramurally funded research program in the general area of bioinformatics of microbial systems. An earned Doctorate (Ph.D.) and postdoctoral research training are required. The successful candidate is expected to contribute to undergraduate and graduate instruction. The position includes state-supported salary (nine months) and a generous startup package. The Department of Microbiology is a diverse department with a strong record of research productivity and funding. The complete position announcement and application information are at website: <http://www.montana.edu/wwwmb>. Review of complete applications will begin October 1, 2002, and continue until position is filled. *ADA/Equal Opportunity/Affirmative Action/Veteran's Preference.*

IMMUNOLOGIST Tenure-Track Faculty Position

The Department of Microbiology and the Linus Pauling Institute, Oregon State University has a full-time, nine-month Assistant Professor position available. We seek an individual who will establish an extramurally funded research program, preferentially addressing the role of oxidative stress and/or dietary constituents in immune responses associated with allergy, and teach immunology at the graduate and under graduate levels. Requires a Ph.D. degree in biological sciences with postdoctoral research experience in immunology or microbial pathogenesis. Salary is commensurate with experience. For full consideration, send a letter of application, curriculum vitae, a statement of research/teaching goals, and three letters of reference on or before September 30, 2002, to: **Immunologist Selection Committee, Department of Microbiology, 220 Nash Hall, OSU, Corvallis, OR 97331-3804. Complete announcement at website: <http://osu.orst.edu/jobs>; or call Telephone: 541-737-1848. OSU is an Affirmative Action/Equal Opportunity Employer.**

BIOFILM ECOLOGIST

The Gas Technology Institute (GTI), the nation's premier, industry-led natural gas research and development organization, has an opportunity for a Biofilm Ecologist. Responsible for designing and executing tasks associated with all facets of corrosion and biofilm projects. Ph.D. with a minimum of two years of postdoctoral experience in microbiology and biofilm studies. Prior industrial research and development experience preferred.

GTI offers an excellent benefit and salary package. Visit us at website: <http://www.gastechnology.org> and forward your résumé to: **GTI, Attn: Human Resource Department, 1700 South Mt. Prospect Road, Des Plaines, IL 60018. FAX: 847-768-0798. E-mail: hr@gastechnology.org. Equal Opportunity Employer.**

The Nature Publishing Group seeks a **COPY EDITOR** for its prestigious journal, *Nature Biotechnology*. This challenging job involves substantial editing of complex technical manuscripts to make them clear and consistent with our style. Applicants should have an advanced degree in biotechnology or related fields, excellent literary abilities, and a strong interest in the communication of scientific ideas. Requires strong computer skills, precise attention to detail, and ability to work closely with editors and authors to meet regular deadlines. One to two years of scientific copyediting experience is strongly preferred. Full-time position with competitive salary and benefits. Send cover letter, salary history, and résumé by August 29, 2002, to: **Human Resources, NPG, 345 Park Avenue South, New York, NY 10010. FAX: 212-696-9594; E-mail: admin@natureny.com. Equal Opportunity Employer.**

Somatic Mutagenesis of Immunoglobulin Genes

A postdoctoral position is available in the Somatic Immunoglobulin Hypermutation Group, Laboratory of Molecular Genetics, to work on somatic mutagenesis of immunoglobulin genes. Candidates should have experience in both tissue culture and molecular genetics, including the construction of targeting vectors to make knockout and/or transgenic mice, southern and northern hybridization, PCR, DNA sequencing, and standard cloning procedures. Candidates should also have a strong background in immunology and/or DNA repair. The focus of the work will be on the poorly understood immunoglobulin hypermutation mechanism, which may include molecules such as DNA polymerases and helicases, proteins involved in DNA repair, and transcription regulators. My laboratory will also explore the links between immunoglobulin hypermutation and generalized mechanisms of DNA repair and/or replication that can result in mutagenesis.

My laboratory group is in the National Institute of Environmental Sciences in Research Triangle Park, North Carolina on the shore of a small lake. The NIEHS resides in an extraordinarily attractive area with ready access to mountains, the seashore, and a myriad of natural habitats including some that are unique. Our labs are spacious and well equipped, and almost any imaginable speciality is practiced here or nearby. Postdoctoral stipends are at least \$35,100 per year (salary will be based on years of experience) plus health insurance. Living costs are generally moderate.

Applicants should have a Ph.D. and/or M.D. with less than 5 years of post-doctoral experience. Curriculum vitae, description of recent research work, and three letters of recommendation should be sent to:

Dr. Marilyn Diaz
Laboratory of Molecular Genetics
National Institute of Environmental Health Sciences
P.O. Box 12233, Maildrop D3-01
Research Triangle Park, NC 27709-2233

e-mail: diaz@niehs.nih.gov
phone: 919-541-4740/fax: 919-541-7593

NIEHS is an Equal Opportunity Employer



CALL FOR POSITIONS TELETHON SCIENTISTS

Telethon Italy has recently founded the Dulbecco Telethon Institute (DTI), a virtual research institution aiming at recruiting talented scientists and disseminating them among the best Italian laboratories. The "Telethon Scientists" share principles of rigour and excellence and are all committed to understanding, preventing and curing genetic diseases. Eighteen Telethon Scientists have been nominated so far.

Telethon Italy is now seeking applications for **7 new positions** within the DTI:

5 Assistant Telethon Scientists

Candidates must have finished post-doctoral training and should be able to show good scientific productivity. They are also expected to carry out an independent research program.

1 Associate Telethon Scientist

Applicants must have about 5 years of independent work experience and a strong publication record. They also should show the beginning of international reputation in their field of expertise.

1 Telethon Scientist

Candidates must be highly productive scientists with the potential of further scientific growth. They must have a well established international reputation for scientific excellence and be recognized leaders in their field. They must have the proven ability to initiate, stimulate and conduct innovative research and to provide scientific leadership both nationally and internationally.

Each position will be awarded a five-year extendable contract and will be supported by a substantial research grant. Prearranged and formal agreements with Italian research institutes or Universities are mandatory for these positions. There are no citizenship restrictions. For further information refer to the call for applications, at <http://www.telethon.it/english/index.asp>

Closing date for applications is September 9, 2002.



St. Jude Children's
Research Hospital

ALSAC • Danny Thomas, Founder

Postdoctoral Fellowships

Investigation of Knock-out Mouse Models Developmental Biology and Physiology of Lipid Metabolism

A postdoctoral position is available for a recent Ph.D. to participate in the development and analysis of knock-out mouse models in a new area of lipid metabolism. Gene expression will be studied in embryos and tissues using *in situ* hybridization and real-time PCR. The impact of altered tissue function will be studied in whole animals with the goal of reversing the metabolic imbalances with drugs. Investigation is focused on a new area of lipid metabolism. Applicants must have a solid background in a related scientific discipline and an interest in working with mice. Excellent salary and benefits, state-of-the-art animal facilities and opportunity for interaction with many expert collaborators are offered.

Cover letter, curriculum vitae and names of three references may be faxed to 901-495-3099; e-mailed to suzanne.jackowski@stjude.org; or mailed to the address below. Please include req.# SCI-1721 in your inquiry.

Dr. Suzanne Jackowski
Protein Science Division
Department of Infectious Diseases
St. Jude Children's Research Hospital
332 North Lauderdale
Memphis, TN 38105

Development of Small Molecule Therapeutics

A postdoctoral position is available for a recent Ph.D. to participate in the development and optimization of methods for high-throughput enzymatic assays for identification of novel inhibitors and crystallization trials for protein structure determinations. Interaction with an established Protein Production Facility provides opportunity to obtain training in heterologous protein expression and purification. Interaction with collaborators in the Structural Biology department enables participation in protein structure determinations and virtual modeling for the design of small molecule inhibitors. Enzymes under investigation are primarily targets for antimicrobial drug development. Applicants must have a solid background in a related scientific discipline and a strong knowledge and interest in biochemistry. The position offers excellent salary and benefits, state-of-the-art facilities, and the opportunity to train with experienced, productive mentors in a multidisciplinary research group.

Cover letter, curriculum vitae and names of three references may be faxed to 901-495-3099; e-mailed to suzanne.jackowski@stjude.org or charles.rock@stjude.org; or mailed to the address below. Please include req.# SCI-1720 in your inquiry.

Dr. Suzanne Jackowski & Dr. Charles O. Rock
Small Molecule Therapeutics Program
Department of Infectious Diseases
St. Jude Children's Research Hospital
332 North Lauderdale
Memphis, TN 38105

St. Jude is an equal opportunity/affirmative action employer.
www.stjude.org

POSITIONS OPEN

NAVAL RESEARCH LABORATORY Micro and Nano Acoustics

The **RESEARCH PHYSICIST** selected for this employment opportunity will join a research team composed of experimental and theoretical physicists, mathematicians, and engineers. This team is presently conducting research in the study of mechanical, acoustic, and thermodynamic properties of solids at low temperatures, especially how these effects are related to the behavior of high Q mechanical oscillators, micro- and nano-structures, and thin film devices.

This position will be filled at Level III (\$46,040 to \$86,262). Salary will be determined based upon the selected candidate's background experience and market considerations.

Physicists should apply who have research interests in: (1) understanding the physical mechanisms that control the damping in high Q mechanical oscillators; (2) scaling down the size of the oscillator into the nanometer region in order to open up the possibility for a variety of new, high-performance sensor and processing devices; (3) exploring the physics of the effects on the intrinsic phonon systems caused by shrinkage of oscillator dimensions, associated quantum effects/limitations, and possible nonlinear effects on elastic properties; (4) applying the techniques of high Q mechanical oscillators as well as ultra-high frequency surface-acoustic waves to the elastic properties of thin films in order to sensitively detect the lattice perfection, impurities, contamination, and internal stresses with extremely high sensitivity; and (5) studying the low energy atomic tunneling states in amorphous and disordered solids.

For further information, copies of forms, and/or vacancy announcements call **Telephone: 202-767-3030**; or you may pick them up at the desk of Building. 72N. This position is described on the NRL website: <http://amp.nrl.navy.mil/code1800/HOMEPAGE.HTM>. Applications and all supporting documents will be retained by the Human Resources Office. Do not submit original documents as they will not be returned to you. Vacancy Announcement opens 1 August 2002 and closes 30 August 2002. Applications must be postmarked by the closing date. Mail to: **Human Resources Service Center, Northeast, Attn: Code 52CC, Announcement # DM-NRL-02-0578-NR, Bourse Building, 111 S. Independence Mall East Philadelphia, Pennsylvania 19106-2598.** *NRL is an Equal Opportunity Employer.*

POSTDOCTORAL FELLOW AND RESEARCH ASSISTANT. A position is available for a Scientist in the new state-of-the-art fluorescence *in situ* hybridization (FISH) facility at the Albert Einstein College of Medicine at the Senior Research Assistant or Postdoctoral Fellow level. This new facility will provide molecular cytogenetic services to Researchers, including spectral karyotyping and 3D interphase studies. Applicants should have a strong background in molecular cytogenetic techniques. Positions are also available for a Postdoctoral Fellow and a Research Assistant in the laboratory of **Dr. John M. Greally**, studying the epigenetic regulation of the mammalian genome. The location of the College is in a quiet suburban neighborhood within easy access of New York City. Please send your curriculum vitae and three letters of recommendation to: **John Greally, Ullmann 911, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461.** Or e-mail: jgreally@aecom.yu.edu. Or FAX: 718-824-3153. *Equal Opportunity Employer.*

A POSTDOCTORAL POSITION is available to study the roles of WNT signals in hair follicle, tooth, and mammary gland development and tumorigenesis (see Andl et al., *Dev. Cell* 2:643-53, 2002). Experience in molecular biology and U.S. citizenship or green card preferred. Salary range: \$34,195 to \$46,914. Contact: **Sarah E. Millar, Ph.D., Departments of Dermatology and Cell and Developmental Biology, University of Pennsylvania, M8D SCL, 422 Curie Boulevard, Philadelphia, PA 19104-6100.** E-mail: millars@mail.med.upenn.edu.

POSITIONS OPEN



Virginia Commonwealth University

PHYSICIAN-SCIENTIST FACULTY POSITION

The Division of Rheumatology, Allergy, and Immunology of Virginia Commonwealth University seeks a tenure-track Physician-Scientist at the **ASSISTANT/ASSOCIATE PROFESSOR** level. The qualified M.D. or M.D./Ph.D. candidate should be Board certified/eligible in Internal Medicine and in Allergy/Immunology or Rheumatology. Candidates will be expected to develop an independent research program utilizing cutting-edge molecular and cell biology technologies to address important problems in these disciplines. Substantial resources and endowments are available for career development.

POSTDOCTORAL RESEARCH FELLOWSHIP:

Recent Ph.D./M.D. graduates with training in cell and molecular biology are sought for Postdoctoral Fellowships to study mast cells and basophils using biochemical, molecular, cell biological, and proteomic techniques.

Interested candidates should send their curriculum vitae, letter of interest, and names of three references to: **Dr. Lawrence Schwartz, Chair, Division of Rheumatology, Allergy, and Immunology, Virginia Commonwealth University, P.O. Box 980263, Richmond, VA 23298-0263.** E-mail: lbschwar@vcu.edu. Applications will be reviewed beginning October 1, 2002, and continue until the positions are filled. *VCU is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disabilities are encouraged to apply.*

TENURE-TRACK POSITIONS Stanford University School of Medicine

The Department of Pathology seeks outstanding Scientists for two tenure-track appointments as **ASSISTANT or ASSOCIATE PROFESSOR**. Successful candidates are expected to develop high-quality independent research programs in an area broadly related to molecular and cellular mechanisms of disease.

Applicants with Ph.D., M.D., or combined degrees will be considered. While these are primarily research positions, there are also possibilities for qualified applicants to participate in clinical activities.

Applicants should submit curriculum vitae and bibliography, together with a brief description of past and present scholarly interests and accomplishments, and a concise statement of plans for future research. These and the names of three references should be sent to: **Stephen J. Galli, M.D., Chair, Department of Pathology, Stanford University School of Medicine, Stanford, CA 94305.** The search committee is co-chaired by **Gerald Crabtree** and **Peter Jackson**, and includes **Jeffrey Axelrod, Eugene Butcher, Michael Cleary, Arend Sidow, Teresa Wang, and Irving Weissman.** *Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages application from such candidates.*

STAFF SCIENTIST

Fred Hutchinson Cancer Research Center

The monoclonal antibody (mAb) development facility at the Fred Hutchinson Cancer Research Center in Seattle, WA seeks a Staff Scientist to perform and oversee all aspects of mAb development, from design to production, including phage display as well as traditional hybridoma methods. Responsibilities include cell fusions, hybridoma culture, mAb detection, construction and maintenance of phage display libraries, and Ig gene cloning. Requires a Ph.D. in immunology or related field and experience with molecular biology and protein chemistry assays. Send curriculum vitae and three references to: **Dr. E. Wayner, Fred Hutchinson Cancer Research Center, 1100 Fairview Avenue North, CD-150, Seattle, WA 98109.** E-mail: ewayner@fhcrc.org. *Equal Opportunity Employer committed to workforce diversity.*

POSITIONS OPEN

SYSTEMIC PHYSIOLOGIST

Tenure-track **ASSISTANT PROFESSOR**. Ph.D. in physiology or other appropriate sub-discipline in biology completed by July 31, 2003. Graduate coursework and research experience in systemic physiology required. Preference given to applicants with broad training in biology. A strong commitment to college teaching, prior teaching at the college level, and experience working with diverse groups desired. Duties: teaching systemic physiology; teaching introductory anatomy and physiology and introductory biology courses; teaching courses in area of specialization; engaging in scholarly activities; academic advising and pre-health professional advising; supervising undergraduate and Master's research; serving on Department and University committees; and engaging in community service. Duties may also include participation in Department and University programs designed to recruit and retain students in science. Submit curriculum vitae, all transcripts, names and telephone numbers of three references, and statements of teaching and scholarly interests. Applicants must also have three letters of recommendation sent to: **Mary Ann Reihman, Chair, Biological Sciences, California State University, Sacramento, CA 95819-6077.** Website: <http://www.csus.edu/bios/>. To ensure consideration, applications should be received by October 1, 2002; position open until filled. *Affirmative Action/Equal Employment Opportunity.*

JILA

JILA [operated jointly by the National Institute of Standards and Technology and the University of Colorado] is devoted to research and applications in the fields of laser technology, optoelectronics, precision measurement, surface science and semiconductors, information and image processing, and materials and process science, as well as basic research in atomic, molecular, and optical physics; precision measurement; gravitational physics; chemical physics; astrophysics; and geophysical measurement. Additionally, at JILA there is interest in fostering further interaction with industry research efforts in order to identify new, industrially relevant applications of the technologies developed. Applications are invited for two programs: (1) **RESEARCH ASSOCIATESHIPS** for advanced research by recent Ph.D.s. Applications are accepted and considered anytime throughout the year. (2) **VISITING FELLOWSHIPS** for advanced research by Senior Scientists. Deadline for completed applications is November 1, 2002. Further information may be obtained from: **Secretary, Visiting Scientists Program, JILA, UCB 440, University of Colorado, Boulder, CO 80309-0440.** E-mail: jilavf@jila.colorado.edu. Website: <http://jilawww.colorado.edu>. *The University of Colorado is an Equal Opportunity/Nondiscrimination Institution.*

RESEARCH ASSOCIATE/ASSISTANT in Mass Spectrometry

The Biosciences Group and the Institute of Molecular Biology at the University of Oregon seek to fill a Research Associate/Assistant position in Mass Spectrometry. The position primarily involves development and operation of mass spectrometry proteomics associated with our Genomics and Proteomics Facility and the Institute of Molecular Biology. The ideal candidate will have a Ph.D. or equivalent experience with skills in mass spectrometry, as well as some of the following areas: protein chemistry, HPLC, 2-D electrophoresis, proteomics, and molecular biology. Excellent communication and organizational skills and the ability to work as part of a team are important. Interested persons should forward curriculum vitae, a statement of relevant research experience and interests, and arrange for three letters of recommendation to be sent by August 30, 2002, to: **Tom H. Stevens, Mass Spectrometry Search, Institute of Molecular Biology, University of Oregon, Eugene, OR 97403-1229.**

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

SCIENCE WRITER

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health (NIH), Department of Health and Human Services (DHHS), is seeking applications from individuals who are currently in post-doctoral positions but who wish to leave laboratory research for a career as a science writer. Particularly encouraged to apply are individuals with post-doctoral experience in molecular biology, coupled with demonstrated writing and other communication skills. Incumbent will develop a wide range of documents that analyze and present the scientific accomplishments and plans of the NIDDK to the Congress, voluntary health organizations, and other lay audiences and must thus be able to convey in global, understandable terms the contributions of biomedical research to human health. Total salary is competitive and will be commensurate with the experience of the selectee.

Please submit current curriculum vitae to the attention of:

Ms. Deirdre Davis
Office of Human Resource Management
National Institute of Diabetes and Digestive and Kidney Diseases
National Institutes of Health
6707 Democracy Blvd., Room 785D
Bethesda, Maryland 20892-5451

Applications must be postmarked by August 16, and received by close of business August 21.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER



Help shape the future of Basic and Clinical Neuroscience at the NIH

The National Institute of Neurological Disorders and Stroke, NIH, is seeking a scientist or physician to serve as Program Director for the planning, evaluation, and administration of neuroscience research on Stroke/Ischemia and/or Vascular Biology. Successful candidates will join a highly interactive group of scientists and clinicians directing research programs in all areas of modern neuroscience and neurological disorders. He/she will plan and implement a cutting edge research program through active communication with the professional and lay communities as well as program staff from other institutes and agencies.

Applicants should have a Ph.D. and/or M.D. degree in a relevant field of biomedical science. This is a GS-13/14 civil service position (salary range \$66,229.00 - \$102,965.00). Physicians may be eligible for a Physician's Comparability Allowance. Title 42(f) appointing authority may be used. Permanent U.S. residents may apply for consideration under indefinite full-time appointments.

Applicants should submit by **September 10, 2002** a letter of application (refer to vacancy # **NINDS-02-0640**), a brief description of career interests, and a curriculum vitae and bibliography to: **Mr. Luis Arvelo, HRB, NINDS, NIH, Building 31, Room 8A23, 31 Center Drive, MSC 2540 Bethesda, MD 20892-2540; Tel. (301) 435-6033; FAX: (301) 480-0383; e-mail: la45j@nih.gov**. Applicants are **strongly encouraged** to obtain specific information concerning the knowledge, skills and abilities (KSAs) needed for the position by contacting **Mr. Arvelo at (301) 435-6033**. For complete information regarding the vacancy please see our Web site at: https://careerhere.nih.gov/CHPublic/HRShowVac.taf?&VACANCY_uid1=12265&_Title=EV.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER



POSTDOCTORAL POSITION Rochester, Minnesota, U.S.A Mayo Clinic/Mayo Medical School Postdoctoral Position Cancer Genetics and Tumor Biology

Two postdoctoral positions are available immediately for individuals who are interested in studying DNA damage signaling in prostate cancer or AXIN2 signaling in GI tumors. The lab currently focuses on identification and characterization of genetic defects in prostate cancer and on mechanisms of AXIN2 in tumorigenesis using approaches ranging from functional genomics, mammalian cell culture, and molecular biology (*Nature Genetics* 26: 146-47, 2000). Several genes that are mutated in prostate cancer have been identified. One candidate will be required to undertake biochemical and biological analysis of the candidate tumor suppressor genes in prostate cancer and the other will study AXIN2 in a new signaling pathway. Applicant should have a Ph.D. degree, be self-motivated and have strong research background in cancer genetics and/or tumor biology. The clinic research environment at Mayo Clinic is excellent.

Salary will be determined by the successful candidate's experience. There is an attractive benefit package. Mayo Clinic 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/>.

Applications, including curriculum vitae and bibliography, summary of past accomplishments, and the names of three references, should be sent to: **Wanguo Liu, Ph.D., Assistant Professor, Laboratory Medicine and Pathology, Guggenheim Building, Room 642C, Mayo Clinic/Mayo Medical School, 200 First Street SW, Rochester, MN 55905; (507) 266-0508; liu.wanguo@mayo.edu**.

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



Tenure-Track Investigator

The Oral Infection and Immunity Branch in NIDCR, NIH is conducting a national search for an outstanding tenure-track investigator in molecular microbiology/immunology. The successful candidate will be expected to develop a strong independent research program to study the interface between oral pathogens and their target cells. The ideal candidate would provide expertise in both molecular microbiology and in cellular and molecular biology. Such interests in microbial pathogenesis would complement and bridge the existing multidisciplinary research in the Branch, which currently includes studies on bacteria, biofilms, viruses, immunology and chronic inflammatory diseases. The Branch will provide excellent support for a cutting-edge research program, including access to core facilities and/or clinical research. The tenure-track appointment would be equivalent to the Assistant/Associate Professor level and enable conversion to a permanent position if successful. The initial appointment is for a 2 year period and may be extended up to 6 years by mutual agreement while seeking tenure. Conversion to tenure would be subject to rigorous scientific review and endorsement by the NIDCR and NIH scientific leadership. Candidates must have an advanced degree, D.D.S., M.D., and/or Ph.D, three or more years of postdoctoral experience and evidence of exceptional productivity. Evidence of written and oral communication skills and mentoring ability is essential. Salary range for candidates is commensurate with training and experience.

Candidates should send a curriculum vitae, bibliography, brief statement of research accomplishments, and have three letters of reference sent to: **Esther Weiss, Human Resources Program, Bldg 31, Room 2C19, NIDCR, NIH, DHHS, Bethesda, MD 20892** or email: weisse@mail.nih.gov by September 13, 2002. Informal inquiries may be directed to **Dr. Sharon M. Wahl at smwahl@dir.nidcr.nih.gov**.

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POSITIONS OPEN

DIRECTOR Lawrence Hall of Science University of California, Berkeley

The Lawrence Hall of Science (LHS), University of California, Berkeley seeks a Director with creative leadership/vision for future. LHS is internationally recognized for innovative math/science programs that span curriculum development, public programs, exhibits, teacher educational/collaborative efforts with schools to prepare students for higher education.

Applicants must show evidence of scholarly achievement and have a Doctoral degree or equivalent experience; a background in science education/higher education preferred. Experience in fundraising and public relations/strategic planning. Proven track record in working with diverse staff, constituency who can meet the needs of California's growing and diverse K-12 population.

Salary and benefits are commensurate with responsibilities of position and based on experience.

Applications should include curriculum vitae and names and addresses of five references to: LHS Director Search Committee, Lawrence Hall of Science, University of California at Berkeley, Berkeley, CA 94720-5200.

Nominations may also be sent to the same address. Application review begins on September 1, 2002. Anticipated appointment date is 1 January 2003. Final closing date for receipt of applications is 31 September 2002. For more information, see the LHS website. <http://www.lawrencehallofscience.org/>.

Equal Opportunity Employer/Affirmative Action.

PLANT ECOLOGIST

Tenure-track ASSISTANT PROFESSOR. Ph.D. in plant biology or an appropriate sub-discipline in biology completed by July 31, 2003. Graduate coursework and research experience in plant ecology required. Preference given to applicants with broad training in biology. A strong commitment to college teaching, prior teaching at the college level, and experience working with diverse groups desired. Duties: teaching plant ecology, general ecology, plant natural history, and/or introductory plant biology courses; teaching undergraduate and graduate courses in area of specialization; engaging in scholarly activities; advising; supervising undergraduate and/or Master's research; serving on Department and University committees; and engaging in community service. Duties may also include participation in Department and University programs designed to recruit and retain students in science. Submit curriculum vitae, all transcripts, names and telephone numbers of three references, and statements of teaching and scholarly interests. Applicants must also have three letters of recommendation sent to: Mary Ann Reihman, Chair, Biological Sciences, California State University, Sacramento, CA 95819-6077. Website: <http://www.csus.edu/bios/>. To ensure consideration, applications should be received by September 23, 2002; position open until filled. Affirmative Action/Equal Employment Opportunity.

POSTDOCTORAL POSITIONS are immediately available at La Jolla Institute for Allergy and Immunology, San Diego, for studies on (1) mechanisms of IgE/FcRI-mediated survival, (2) functions and regulatory mechanisms of Src and Btk protein-tyrosine kinases, PKC and Akt in mast cell activation, and (3) animal models of allergy. One position will be filled by a U.S. citizen or permanent resident. E-mail your curriculum vitae to: Dr. Toshiaki Kawakami at e-mail: toshi@liai.org.

RESEARCH ASSOCIATE

Baylor College of Dentistry, a component of The Texas A&M University System Health Science Center has a position available in the Department of Periodontics. Bachelor's degree in biology or chemistry required; Ph.D. preferred. Experience in molecular biology, protein chemistry, and immunology. Apply in person, by FAX, or e-mail: 3302 Gaston Avenue, Dallas, Texas 75246. FAX: 214-828-8904; e-mail: jobs@tambcd.edu.

POSITIONS OPEN

ASSISTANT PROFESSOR Immunopathogenesis Department of Microbiology and Immunology Medical College of Ohio

Applications are invited for a 12-month tenure-track faculty position. The successful candidate is expected to develop an independent, extramurally funded research program in an area related to immune response to microbial infection. In addition to teaching medical and graduate students, the successful candidate will be expected to participate in existing bacterial and fungal pathogenesis programs within the Department.

The Department is in a growth phase with focus on the development of immunology. MCO is a state school with a modern campus. To learn more about the Department and MCO, visit our website: <http://www.mco.edu>. Applicants should submit a statement of research goals with representative reprints, curriculum vitae, and three letters of recommendation to: Garry T. Cole, Ph.D., Chair, Department of Microbiology and Immunology, Medical College of Ohio, 3055 Arlington Avenue, Toledo, OH 43614-5806. Applications should be received by September 1, 2002. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR Arthropod Vector Biology—Public Health

The Department of Entomology at Purdue University invites applications for an academic-year, tenure-track, research/extension faculty position. We seek outstanding candidates in the field of arthropod vector biology and management, focused on pests of public health importance, who will establish a research program that applies modern tools to advance understanding of the biology, ecology, genetics, or behavior of arthropod vectors and/or the vector-pathogen interface. A Ph.D. in entomology or suitable area of biological science is required. Send curriculum vitae; reprints; Ph.D. dissertation summary; a statement of research, extension, and teaching experience; and names and addresses of five references by October 11, 2002, to: Peter E. Dunn, Search Committee Chair, Department of Entomology, 1158 Smith Hall, Purdue University, West Lafayette, IN 47907-1158.

Purdue University is an Equal Opportunity/Affirmative Action Employer.

INSTRUCTOR University of Texas Southwestern Medical Center

Instructor position available to study kidney-specific gene regulation, kidney development, and polycystic kidney disease using knockout, transgenic, and conditional knockout mice. Ph.D. or M.D. with strong background in gene regulation or mouse genetics required. Instructor position requires three years of relevant postdoctoral experience. Send curriculum vitae and names of three references to: Dr. Peter Igarashi, Chief, Division of Nephrology, UT Southwestern, 5323 Harry Hines Boulevard, Dallas, TX 75390-8856. FAX: 214-648-2071. E-mail: peter.igarashi@utsouthwestern.edu. Website: http://www.utsouthwestern.edu/home_pages/nephrology/faculty/igarashi.html. UT Southwestern is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH POSITIONS.

The Department of Molecular Biology at Princeton University currently has Postdoctoral positions available in the areas of molecular biology, biochemistry, physics, neuroscience, and genetics. Candidates are required to have a Ph.D. or M.D. in a related field. Interested applicants should send curriculum vitae, references, and a brief description of research interests to: Nancy Barthelemy, Department of Molecular Biology, Princeton University, Lewis Thomas Laboratory, Princeton, NJ 08544. FAX: 609-258-3980. Princeton University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION IN MACROMOLECULAR NMR AND STRUCTURAL BIOLOGY Laboratory of Chemical Physics National Institute of Diabetes and Digestive and Kidney Diseases

A Postdoctoral position is available immediately in the Section of Protein NMR to determine the three-dimensional solution structures of larger macromolecular complexes by multidimensional NMR spectroscopy. Particular emphasis is currently being placed on protein-protein complexes involved in signal transduction, and on binary and ternary protein-nucleic acid complexes involved in transcription. (For further details of projects in the laboratory see website: <http://spin.niddk.nih.gov/clore>). Applicants must have a Ph.D. and/or M.D. and less than five years of postdoctoral experience. Expertise in multidimensional NMR, as well as protein expression and purification, is essential.

The Laboratory of Chemical Physics in NIDDK provides state-of-the-art research facilities in NMR spectroscopy and structural biology in a highly collegial environment involving a number of NMR and X-ray groups. Please send your curriculum vitae bibliography, and copies of selected publications, and arrange for three letters of reference to be sent directly to: G. Marius Clore, M.D. Ph.D., Chief Protein NMR Section, Laboratory of Chemical Physics, Building 5/BI-301, NIDDK, National Institutes of Health, Bethesda, MD 20892-0510, FAX: 301-496-0825, E-mail: mariusc@intr.niddk.nih.gov. NIH/Department of Health and Human Services.

POSTDOCTORAL POSITIONS in Molecular Genetics of Tumorigenesis and Tumor Suppression. Two Postdoctoral positions are available to study the role of oncogenes and terminal differentiation/growth arrest/DNA repair genes in breast carcinogenesis and leukemogenesis, taking advantage of recently generated knockout mouse models (*Oncogene* 21:3391-3402, 2002, Review; *Oncogene* 21:3414-21, 2002, Review; *Blood* 100:80-88, 2002; *JBC* 276:2766-74, 2001; *JBC* 275:16810-19, 2000; *Blood* 96:475-82, 2000; *MCB* 14:2361-71, 1994). Applications are encouraged from individuals with strong background in molecular and cellular biology. Send curriculum vitae and three letters of reference to: Drs. D.A. Liebermann and B. Hoffman, Fels Institute for Cancer Research and Molecular Biology, Temple University School of Medicine, 3307 North Broad Street, Philadelphia, PA 19140-5101. FAX: 215-707-2805; e-mail: lieberma@unix.temple.edu or hoffman@unix.temple.edu. Temple University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS are available immediately to study the physiology and pharmacology of synaptic plasticity using electrophysiological and molecular approaches. Experience with *in vivo* electrophysiological techniques, or a willingness to learn these techniques, is required. Send curriculum vitae and names of three references to: Steve Mifflin, Department of Pharmacology, MC 7764, UTHSCSA, 7703 Floyd Curl Drive, San Antonio, TX 78229-3900. FAX: 210-567-4303. E-mail: mifflin@uthscsa.edu. UTHSCSA is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW Massachusetts General Hospital/ Harvard Medical School

Postdoctoral position to study translational cellular immunotherapy of melanoma using dendritic cell and gene transfer approaches. Studies ongoing involving murine models and human clinical trials. M.D., Ph.D., or M.D./Ph.D. and previous experience in techniques of cellular immunology, immunoassays, and flow cytometry necessary.

Send curriculum vitae and names of three references to e-mail: bgrzybek@partners.org or FAX: 617-726-6974.

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**THE UNIVERSITY OF CALIFORNIA,
SAN DIEGO
DIVISION OF BIOLOGICAL SCIENCES**

The Division of Biological Sciences at UCSD has a large faculty spanning many areas of biology and one of the largest and most diverse graduate programs in the country. We invite applications for faculty positions in the

NEUROBIOLOGY SECTION

We plan to make appointments at the Assistant Professor level in several areas of neurobiology, including systems and integrative, computational, and behavioral neurobiology, and genetic, molecular, cellular, and developmental neurobiology. Candidates must have demonstrated ability to develop a rigorous research program. At the senior level, we are searching for a distinguished neuroscientist Professor who will occupy the Stephen W. Kuffler Endowed Chair. Candidates will have a well-developed research program supported by extramural funds. All candidates must have Ph.D. or equivalent degree and a commitment to teaching at the undergraduate and graduate levels. The level of appointment will be commensurate with qualifications and experience with salary based on UC pay scale.

Applications received by September 15, 2002 will be assured of consideration. Send curriculum vitae, complete list of publications, brief description of research interests and professional goals, and the names of at least three references with addresses, emails, phone and fax numbers to: **Neurobiology Search Committee, Division of Biology 0346-B, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0346.**

UCSD is an Equal Opportunity-Affirmative Action Employer with a strong institutional commitment to the achievement of diversity among its faculty and staff.

FACULTY POSITION

**Department of Microbiology and Immunology and
Center for Infectious Diseases
The University of North Carolina at Chapel Hill
BACTERIAL PATHOGENESIS**

Individuals studying Bacterial Pathogenesis and/or innate immunity to bacterial pathogens are invited to apply for a tenure-track faculty appointment in The University of North Carolina at Chapel Hill, School of Medicine, beginning summer 2003.

Candidates for this position should have expertise in the area of bacterial pathogenesis and/or host responses to bacterial infection and should be prepared to participate in teaching medical microbiology and bacterial pathogenesis to graduate students and medical students. The appointment will be in the Department of Microbiology and Immunology at the level of Assistant Professor. Visit our web site (<http://www.med.unc.edu/wrkunits/2depts/microimm>) for more department information. The Department has a strong program in bacterial genetics and molecular pathogenesis. The successful candidate will also become a member of the Center for Infectious Diseases, which brings together investigators from the Department of Microbiology and Immunology, the Division of Infectious Diseases, and the School of Public Health who share interests in infectious disease pathogenesis, epidemiology, and prevention.

The successful candidate will be expected to develop outstanding independent research programs and to excel in teaching. A doctoral degree, relevant postdoctoral experience, and a strong publication record are required.

Applicants should send curriculum vitae, statement of research interests, future plans, representative reprints, and arrange to have four letters of reference sent to: **Dr. Tom Kawula**. Mailing address: **Department of Microbiology and Immunology, CB# 7290, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7290**. Applications will be accepted until the position is filled. Preference will be given to candidates whose applications are complete before October 15, 2002.

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POSTDOCTORAL RESEARCH POSITIONS AVAILABLE
Oak Ridge National Laboratory
Protein Informatics Group

The Protein Informatics Group (<http://compbio.ornl.gov/structure>) of Oak Ridge National Laboratory (ORNL) (www.ornl.gov) is seeking candidates for new postdoctoral research associates in the area of computational biology. Candidates should have training and experience in mass spectrometry data analysis of proteins and protein complexes, or in computational studies of signal transduction or regulatory pathways.

The applicants should have a Ph.D. degree in molecular biology, biochemistry, computational biology, or other computational sciences. Strong ability in computer programming is essential. The successful applicants will participate in projects newly funded by the "Genomes to Life" Initiative under the Department of Energy.

The ORNL Protein Informatics Group currently consists of ten scientists with highly diversified background, ranging from biochemistry, computational chemistry, biophysics, physics to computer science, statistics and mathematics. Our common interests are in development of computational tools for solving problems from molecular biology.

Interested candidates should send an updated CV to **Dr. Ying Xu, Protein Informatics Group, Building 1060 COM, MS 6480, Oak Ridge National Laboratory, Oak Ridge, TN 37831-6480, USA** or E-mail: xyn@ornl.gov, or Web: <http://compbio.ornl.gov/~xyn>.

Please reference project **ORNL 02-22-LSD** when applying for this position.

Appointments are offered through the ORNL Postdoctoral Research Associates Program (<http://www.ornl.gov/orise/edu/postgrad/ornlpdoc.htm>) which is jointly administered by the Oak Ridge Institute for Science and Education. *The program is open to all qualified U.S. and non-U.S. citizens without regard to race, color, age, religion, sex, national origin, physical or mental disability, or status as a Vietnam-era veteran or disabled veteran.*

ORNL, a multipurpose research facility managed by UT-Battelle, LLC, for the U.S. Department of Energy, is an Equal Opportunity Employer committed to building and maintaining a diverse work force.

SCIENTIST, CELL BIOLOGY

Athersys, Inc. is a Cleveland based company whose research and development programs are centered around its two novel, proprietary platform technologies, which incorporate the Company's core expertise in cell biology, genetics, chromosome structure and function, and gene expression: the **RAGE** technology, and the **SYNTHETIC MICROCHROMOSOME** vector system.

Athersys is developing its RAGE (Random Activation of Gene Expression) technology for use in several areas, encompassing high-throughput functional genomics, gene discovery, and development of specific therapeutic products.

Position Description

The position will report to the Director of Cell Biology, and will involve participation in an interdisciplinary research team dedicated to the production and characterization of cell lines expressing therapeutic drug targets. The candidate should have a clear record of productivity, and have expertise in molecular pharmacology and cell-based assays. A clear understanding of cellular signal transduction pathways is required. The position requires overseeing the activities of a dedicated team of Cell Biologists, and hence applicants should have prior group management experience.

Position Requirements

We seek a Ph.D. in Cell Biology or related discipline with expertise in molecular pharmacology and receptor-linked signal transduction. Candidates with prior research experience in the areas of CNS disease, inflammation and/or oncology will receive preference. The position requires a minimum of 5 years of post-graduate research with prior team management experience. Preferred candidates will have developed high-throughput assays for use in the measurement of drug activity at receptors.

Send Resume/CV to: **Athersys, Inc., Attn: Employment, Job #08-21017, 3201 Carnegie Avenue, Cleveland, OH 44115, or jobs@athersys.com or Fax to 216-361-9596.**

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biotechnology**

seeks an **ASSISTANT EDITOR**

Nature Biotechnology is looking for an Asst Editor to focus on manuscript selection and peer review. The successful candidate will also have an opportunity to contribute to all aspects of the journal, including commissioning and writing. Close contact with the biotechnology community will be essential, including travel to international meetings and conferences.

Applicants should have a Ph.D.; a strong research background; a broad understanding of, and interest in, the field; excellent literary skills; an enthusiasm for the communication of science; and an appreciation of the history and evolution of molecular biology into biotechnology.

To apply, please submit a CV (including current salary), a short (700-900 words) News & Views-style article on an exciting and newsworthy recent development in any area of biotechnology, and a short cover letter explaining your interest in the post, to Human Resources Department, re: Asst Editor, *Nature Biotechnology*, 345 Park Avenue South, New York NY 10010 (fax 212.696.9594; email: admin@natureny.com) to arrive as soon as possible and **no later than August 31, 2002.**

POSTDOCTORAL POSITIONS

Postdoctoral positions are available to conduct research on the molecular biology and evolution of retroviruses, with emphasis on HIV, SIV, and related lentiviruses. The laboratory is currently using the SIV macaque model for studying AIDS pathogenesis, vaccine development and the identification of novel therapeutic strategies.

Applicants must have a Ph.D. and/or M.D. degree with a strong background in molecular biology and virology preferred.

Location: Basic Research Laboratory
NCI-Frederick, Frederick, MD

Principal Investigator: Dr. Raoul Benveniste, Medical Officer

Address correspondence and inquiries to:

Carla Hemp
Basic Research Laboratory
National Cancer Institute - Frederick
Building 560, Room 22-100
560 Chandler Street
Frederick, MD 21702-1201
Email: hempc@ncifcrf.gov

Science

Copy Editor (Two Vacancies)

SCIENCE magazine is looking for copy editors with a B.S. in science and a strong English background (or a B.A. in English and a strong science background) to copyedit scientific research reports, including editing and sizing art and tables. Close attention to detail is essential. Online editing experience is a plus. No writing or manuscript selection is involved.

Qualifications: Three to five years of scientific editing experience; ability to work as part of a team to meet deadlines. Aptitude for editing, grammar, and style will be tested; science background is helpful. We offer a competitive salary, full benefits package. Send cover letter and resume with salary requirements to: **The American Association for the Advancement of Science, 1200 New York Ave., NW, Suite 102, Washington, DC 20005.** You can fax (202) 682-1630 or email resumes to hrtemp@aaas.org.

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Department of Biological Sciences at THE UNIVERSITY OF IOWA Faculty positions in

CELL BIOLOGY

One tenure-track position at the Assistant or Associate Professor level is open for an individual interested in the cell and molecular biology of cell and/or growth cone motility. Areas of particular interest include: actin dynamics, the Arp2/3 complex, Rac/Rho/cdc42, SCAR/WASP, membrane receptor cytoskeletal interactions, signaling, and high resolution imaging; however, applicants in other related areas will also be carefully considered. Candidates will have access to the Keck Dynamic Image Analysis Facility (<http://keck.biology.uiowa.edu>) housed in the Department of Biological Sciences and will join an established Program in Cell Motility, continuously funded by the NIH for 19 years.

MOLECULAR EVOLUTION

The Center for Comparative Genomics, in conjunction with the Department of Biological Sciences, invites applications for one faculty position in the area of molecular evolution at the Assistant or Associate Professor level. Successful candidates are expected to have an internationally visible research program that uses molecular or theoretical approaches to study significant problems in evolution. These problems include, but are not limited to, genome evolution, comparative genomics, population genetics, evolution of regulatory circuits, and evolution of host-pathogen interactions in animals and plants. The Department is committed to expanding an internationally recognized program in comparative genomics and successful candidates will participate in filling additional positions in subsequent years. More about the Center for Comparative Genomics may be found at <http://www.biology.uiowa.edu/ccg>.

Candidates for both positions should have a recognized record of accomplishment as reflected in publications in leading journals. Successful candidates will be expected to establish and maintain an extramurally funded research program. Recently renovated space and competitive start-up packages will be made available. More information on the Department of Biological Sciences is available at www.biology.uiowa.edu. Applicants should send a curriculum vitae, statement of research objectives, selected reprints, a description of teaching interests, and the names of three references to the appropriate search committee: **David Soll, Chair, Cell Biology Search Committee** or **Bill Ballard, Chair, Evolution Search Committee, The University of Iowa, Department of Biological Sciences, 138 Biology Building, Iowa City, Iowa 52242-1324.**

Applications will be considered as they are received. The University of Iowa is an Affirmative Action/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.

Pharmaceutical Research and Manufacturers of America (PhRMA)

Leading trade association for the US research-based pharmaceutical industry has the following positions based in Washington DC:

Director, Public Health Policy (2 positions): Specialist in Infectious Disease and its prevention/ treatment. Specifically, must have training in a pertinent biomedical discipline.

Qualifications:

- Masters, (PhD or MD preferred).
- Experience in public policy development at US state, national and/or international levels and with the regulatory drug approval process.
- Proven abilities to initiate and successfully manage professional alliances.
- Specific expertise in the development of anti-infectives including vaccines.
- Excellent technical writing skills, ability to manage meetings on complex technical topics and capacity to organize and coordinate essential.

Director, International Regulatory Affairs: Provide research, analysis, intelligence gathering, planning, technical support and lobbying support to the AVP and PhRMA regional committees in the development and coordination of industry regulatory strategy for major markets outside the U.S. Role will include coordination of ICH activities and regional responsibilities.

Qualifications include:

- Knowledge of U.S. and international regulatory affairs. Understanding of U.S. trade policy and multilateral and bilateral agreements including market access, standards, competition policy and intellectual property protection.
- Familiarity with key foreign Ministry of Health leadership and previous experience focused on EU, Japan or Asian regulatory issues is a plus.
- Minimum undergraduate degree, Masters and/or PhD preferred, minimum 3 years international regulatory experience, or industry specific experience.
- Position will include international travel.

Send resume to: **PhRMA, HR/SRA, 1100 15th St. NW, Suite 900, Washington, DC 20005; or email to jobs@PhRMA.org.**



Faculty Position in Bioinformatics and Computational Biology Departments of Biological Sciences and Biomedical Engineering in conjunction with the Roy J. Carver Center for Comparative Genomics and The Coordinated Laboratory for Computational Genomics at the University of Iowa

A tenure-track position at the Assistant Professor level is open for an individual interested in computational methods and their application to significant biological problems. Areas of particular interest include: comparative genomics, genome evolution, genomic applications, computational methods, and algorithm design; however, applicants in other related areas will also be carefully considered. This position is part of a campus-wide initiative involving many departments in the Colleges of Liberal Arts and Sciences, Engineering, Medicine, and Public Health addressing all aspects of Bioinformatics. The successful candidate will encounter a diverse and dynamic community of scholars interested in computational methods and their application to biological problems.

Candidates will be expected to have a Ph.D. as well as a record of accomplishment as reflected in publications in leading journals. The successful candidate will be expected to establish and maintain an extramurally funded research program. Recently renovated space and a competitive start-up package will be made available. Applicants should send a curriculum vitae, statement of research objectives, selected reprints, a description of teaching interests, and the names of three references to: **Computational Biology Search Committee, The University of Iowa, Department of Biological Sciences, 138 Biology Building, Iowa City, Iowa 52242-1324.**

Applications will be considered as they are received. The University of Iowa is an Affirmative Action/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.



Postdoctoral Opportunities 2

A Science Advertising Supplement



Issue date 13 September 2002

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Ph.D. students who want to take postdoctoral fellowships face a series of questions: Where should they pursue their further education? What discipline should they study? Whose group should they apply to for their postdocs? Should they apply for a nontraditional fellowship in an industrial or government lab? In this report, academic and nonacademic sponsors of postdoctoral fellowships will provide advice on how to answer those questions.

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¹ *Science* December 2001 BPA Publisher's Statement.

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ASSOCIATE SCIENTIST I

Write protocols and prepare immunizations for the development of monoclonal bodies, while performing fusions and assays for the characterization of monoclonal antibodies. Must have a BS/MS with 5-7 years experience, including monoclonal antibody development, cell culture and assay development. **Job Code: 2600-008**

ASSOCIATE SCIENTIST I

We are seeking an experienced molecular biologist to join the Protein Engineering and Structure Department. Responsible for the molecular biology aspects of constructing, evaluating, and optimizing novel mammalian expression vectors and systems, with particular emphasis on expression of recombinant antibodies. Requires a BS/MS degree with 7-10 years of experience in expression system development. **Job Code: 2600-009**

To reply, send resume, with job code, to: **MedImmune, Inc., HR Department, 35 West Watkins Mill Road, Gaithersburg, MD 20878. MedImmune, Inc. EOE**
Fax: 301-527-4215. E-mail: **Job Openings@medimmune.com**

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ANNOUNCEMENTS

Announcement

The 12th Takeda Science Foundation Symposium on Bioscience Stem Cells and Organogenesis

Dates: Monday, November 18 - Wednesday, November 20, 2002

Site: International Conference Center Kobe, Hyogo, Japan

Official Language: English

Organizers: Masatoshi Takeichi (RIKEN CDB)
Shin-ichi Nishikawa (Kyoto University/ RIKEN CDB)
Yoshiki Sasai (Kyoto University/ RIKEN CDB)

Speakers: Kiyokazu Agata, Takayuki Asahara, Yann Barrandon, Patrik Brundin, Alan Colman, Steven A. Goldman, John B. Gurdon, Rudolf Jaenisch, Haifan Lin, Ron D. McKay, Richard C. Mulligan, Masato Nakafuku, Norio Nakatsuji, Hiromitsu Nakauchi, Shin-ichi Nishikawa, Hitoshi Niwa, Toshiaki Noce, Masaki Okano, Martin F. Pera, Thomas A. Reh, Yoshiki Sasai, Austin Smith, Azim Surani, Tetsuya Taga, Teruhiko Wakayama, Fiona M. Watt, Irving L. Weissman

Call for Poster Abstracts: Participants who wish to make poster presentations are requested to inform their name, affiliation and presentation title to the Secretariat by August 30. (Deadline for Submission of Poster Abstracts: September 13, 2002) The Program Committee will make the final decisions on the acceptance of Abstracts.

Application and Registration: Those who wish to attend the conference should contact the following address:

Secretariat: The 12th Takeda Science Foundation Symposium on Bioscience
c/o Congress Corporation
3-6-13, Awajimachi, Chuo-ku, Osaka 541-0047, Japan
Phone: +81-6-6229-2555 Fax: +81-6-6229-2556
E-mail: **takedasci@congre.co.jp**

URL: <http://www.congre.co.jp/takedasci/>

Deadline for Registration: October 11, 2002

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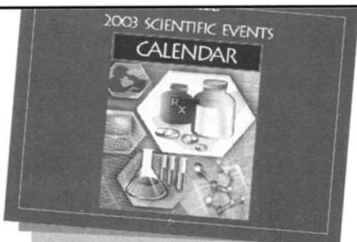
Program provides funding for investigators developing innovative tools for use in life science research. Total funding is US\$5 million per year, with annual individual awards of up to US\$100,000. Grants are provided quarterly.

Third quarter 2002 funding is for novel approaches in the **separation and purification** of biomolecules. Proposals to develop enrichment, fractionation and labeling technologies are also of interest. Deadline for full Grant Proposals is September 1. A preproposal is required. For more information, visit www.invitrogen.com, e-mail grants@invitrogen.com, or call 800 955 6288, ext. 66140.

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¹ Science Harvey Research Readership surveys: 14 January 2000, 4 February 2000, 4 June 1999 (Japan) as applied to Science December 2001 BPA Publisher's Statement, publisher's own data.

For full details contact:

In the U.S. Kathleen Clark	In Europe Richard Walters
phone 202-326-6555	phone +44 (0) 1223 326 500
fax 202-289-6742	fax +44 (0) 1223 326 532
e-mail kclark@aaas.org	e-mail rwalters@science-int.co.uk

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POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE (four years, starting fall 2002), Biological and Environmental Sciences, The University of Tennessee at Chattanooga (UTC) and the Tennessee Aquarium Research Institute (TNARI). Herpetologist, Ph.D. required. Primary responsibilities include helping develop TNARI's long-range research and conservation initiative focusing on turtles, and leading and expanding a project to develop techniques to monitor the population status of riverine turtles in Chattanooga region. Responsibilities at UTC include supervising graduate students and teaching a course in Herpetology (years one and three) and another course on one's area of expertise (years two and four). Applicants must have strong interpersonal skills, desire and ability to work with others, research experience and quantitative/statistical knowledge, physical ability to conduct aquatic field research, and interest in developing a model research program that promotes conservation, secondary education, and community awareness and support. Send curriculum vitae, transcripts, and three reference letters to: **Dr. George W. Benz, Tennessee Aquarium and Tennessee Aquarium Research Institute, One Broad Street, Chattanooga, TN 37401. E-mail: gwb@tennis.org; FAX: 706-694-3957.** Screening of credentials begin 1 September 2002 and continues until position is filled. UTC is an Equal Employment Opportunity, Affirmative Action, Title VI & IX, Section 504, ADA, ADEA Institution.

POSTDOCTORAL RESEARCH FELLOW Departments of Pediatrics and Radiology Evanston Northwestern Healthcare Research Institute and Northwestern University

Position available immediately to study newborn brain diseases using MRI in animal models and humans. Access to state-of-the-art instrumentation in excellent locality with highly competitive pay and benefits. Candidates with a Ph.D. in physics, chemistry, engineering, or neuroscience with prior experience in MRI preferred. Send curriculum vitae to: **S. Tan, M.D., or P.V. Prasad, Ph.D., 2650 Ridge Avenue, Evanston, IL 60201. Or call Telephone: 847-570-1349. FAX: 847-570-2942; e-mail: sidtan@northwestern.edu or p-prasad2@northwestern.edu.**

POSTDOCTORAL/RESEARCH ASSOCIATE/GRADUATE RESEARCH ASSISTANT positions are available in the Lung Biology and Toxicology Laboratory at Oklahoma State University to study exocytosis, cell differentiation, and oxidative/nitrosative stress from molecular level to whole animal. Highly motivated candidates are encouraged to apply. A strong background in DNA microarray, proteomics, and bioinformatics is a plus. Send curriculum vitae to: **Dr. Lin Liu, Department of Physiological Sciences, Oklahoma State University, Stillwater, OK 74078. E-mail: liulin@okstate.edu.** Applications will be accepted through August 30, 2002, or until suitable candidates are identified. OSU is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATE POSITION in Macromolecular Crystallography and Cryo-Electron Microscopy is available immediately. You will study the structures and functions of enzymes and ssDNA viruses. Salary will be commensurate with experience. Send detailed curriculum vitae with three references to: **Dr. Mavis Agbandje-McKenna, Department of Biochemistry and Molecular Biology, University of Florida, P.O. Box 100245, Gainesville, FL 32610-0245. E-mail: mckenna@ufl.edu; Telephone: 352-392-5694; FAX: 352-392-3422.** University of Florida is an Equal Opportunity/Affirmative Action Institution.

Two positions available at UCLA Cancer Center to study novel and exciting cancer-related genes: one **ACADEMIC SERIES RESEARCH SCIENTIST** and one **POSTDOCTORAL FELLOW**. Candidates need molecular biology experience. Knowledge of genetically engineered mouse models and gene therapy approaches very helpful. Please send résumé and references to e-mail: **mcpaulding@mednet.ucla.edu; or FAX: 310-825-7575.**

POSITIONS OPEN

POSTDOCTORAL POSITION/ RESEARCH ASSOCIATE DEVELOPMENTAL NEUROSCIENCE

Positions available for research in mammalian developmental neuroscience. We are interested in the role of cell polarity and epithelial organization in the regulation of cell proliferation and cell fate decisions in the developing mammalian central nervous system (see 19 July 2002 issue of *Science*, and *Cell* **82**(4):631-41 August 25, 1995). Expertise with molecular biology and/or histology desirable. Send curriculum vitae, description of research interests, and three references to:

Anjen Chenn, M.D., Ph.D.
Department of Pathology, W127
Ward 6-204
The Feinberg School of Medicine
Northwestern University
303 East Chicago Avenue
Chicago, IL 60611-3008
E-mail: achenn@northwestern.edu
Website: <http://pubweb.northwestern.edu/~ach617>

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

A **POSTDOCTORAL POSITION** is immediately available to study epithelial physiology *in vitro* and *in vivo*. The position requires a person with training in physiology, biophysics, or bioengineering. Experience in imaging, animal models, histology, cell culture, or molecular biology is also desirable. Interested candidates should send (e-mail or FAX) their curriculum vitae and contact information (e-mail and telephone number) for three references to: **Dr. Sheldon Miller, Vision Science Graduate Program and Department of Molecular and Cell Biology, 360 Minor Hall, University of California, Berkeley, CA 94720-2020. FAX: 425-952-0627; e-mail: smiller@socrates.berkeley.edu; website: <http://vision.berkeley.edu/VSP/SSM/>.**

POSTDOCTORAL RESEARCH ASSOCIATES in Pulmonary Biology (Ph.D. or M.D.) are required for two or more years to study the regulation of airway smooth muscle cell contractility, ciliary activity, and intercellular communication with NIH funding. Training in cell and pulmonary physiology with experience in fluorescence and confocal microscopy, tissue culture, and electrophysiology preferred. For details see website: <http://users.umassmed.edu/michael.sanderson/mjslab>. Contact: **Dr. Michael J. Sanderson, Department of Physiology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA, 01655. E-mail: michael.sanderson@umassmed.edu.**

POSTDOCTORAL POSITION is available in fall 2002 at the University of California, Irvine to study alphavirus replicon vector and dendritic cell interactions with applications to immunotherapeutics. Salary is commensurate with training and experience. Applicants with a Ph.D. in a relevant field should send their curriculum vitae, including the names, addresses, and telephone numbers of three references, to: **Dr. Edward L. Nelson, University of California, Irvine, College of Medicine and School of Biological Sciences, Med, Surg, II, Room, 375B, Irvine, CA 92697-4060. E-mail: enelson@uci.edu. UCI is an Equal Opportunity Employer committed to excellence through diversity.**

POSTDOCTORAL POSITION available to carry out studies related to T cell recognition in autoimmunity. Experience in molecular, cellular immunology, and/or biophysical techniques is desirable, but strong applicants from other areas are encouraged to apply. Please send curriculum vitae and details of three references to: **Dr. E. Sally Ward, Center for Immunology, UT Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75390-8576, U.S.A. E-mail: sally.ward@utsouthwestern.edu. Equal Opportunity Employer.**

POSITIONS OPEN

An NIH-funded **POSTDOCTORAL POSITION** is available to investigate the role of CD8+ T cells in immunity to the intracellular pathogen *Chlamydia pneumoniae*. Applicants should have a good understanding of microbial cellular immunology and experience in handling mice. The project will use several techniques, including T cell cloning, CTL/cytokine assays, precursor frequency analysis using ELISPOT/tetramers, DNA vaccine construction, real time PCR, immunohistochemistry, and mass spectrometry of MHC class I-associated peptides. Strong English language skills are required. Send curriculum vitae and contact information of three references to: **Dr. Benjamin Wizel, Department of Microbiology and Immunology, University of Texas Health Center, 11937 U.S. Highway 271, Tyler, Texas 75708. E-mail: bwizel@uthct.edu. Affirmative Action/Equal Opportunity Employer. Security sensitive positions are subject to Texas Ed code 51.125, which authorizes the employer to obtain criminal history record information.**

POSTDOCTORAL RESEARCH POSITIONS, University of Wisconsin-Madison Medical School Psychiatry Department. Two Postdoctoral positions available in **Dr. Ned Kalin's** laboratory. Doctoral degree required with emphasis in neuropharmacology, behavioral neuroscience, and/or molecular neuroscience. Requires strong oral and written communication skills. This individual will investigate the mechanisms underlying behavioral and biochemical changes associated with stress, fear, and anxiety. The laboratory is especially interested in the underlying neural circuitry and molecular mechanisms. Salary range begins at \$31,092. Please send a letter of interest along with your curriculum vitae to: **Dr. Ned Kalin, UW Department of Psychiatry, 6001 Research Park Boulevard, Madison, WI 53719. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer. Unless confidentiality is requested in writing, information regarding the applicants must be released upon request. Finalists cannot be guaranteed confidentiality.**

POSTDOCTORAL RESEARCHER POSITION to study genotoxicity, environmental hormone mimics, and carcinogens using computational structure-activity relationship modeling. Required qualifications: Ph.D. in toxicology, biology, or chemical sciences with a toxicology background. Additional qualification desired: experience with Tripos Sybyl software. Application deadline is August 23, 2002, or until candidate is selected. Submit curriculum vitae and contact information of three references to: **Dr. A. R. Cunningham, Department of Environmental Studies, 42 Atkinson Hall, Louisiana State University, Reference: Log #1100, Baton Rouge, LA 70803. LSU is an Equal Opportunity/Equal Access Employer.**

POSTDOCTORAL POSITIONS (two) available in a collaborative project studying molecular mechanisms regulating expression, trafficking, and function of GLT1, the major glutamate transporter of the brain, and how GLT1 dysfunction might contribute to the pathogenesis of neurodegenerative disorders, particularly amyotrophic lateral sclerosis. Background in molecular biology is required for the position with **Dr. Paul A. Rosenberg**, and in electrophysiology for the position with **Dr. Davide Trotti** at Massachusetts General Hospital. Please send curriculum vitae to: **Paul A. Rosenberg, M.D., Ph.D., Children's Hospital and Harvard Medical School, 300 Longwood Avenue, Boston, MA 02115. E-mail: paul.rosenberg@tch.harvard.edu or FAX: 617-734-1646.**

POSTDOCTORAL POSITION in biofilm formation by *C. albicans* available using expression profiling, molecular, and cell biology approaches. Experience with biofilm, yeasts, or molecular biology an asset. Ph.D. required. Send résumé and contact information for references to: **Dr. Chaffin, Department of Microbiology and Immunology, Texas Tech University Health Sciences Center, Lubbock, TX 79430. E-mail: lajean.chaffin@ttuhsc.edu. TTUHSC is an Equal Employment Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS (three) available to investigate sphingolipid intermembrane trafficking by sphingolipid transfer proteins and their role in sphingolipid microdomain (raft) formation. Sphingolipid transfer protein structure-function, as regulated by glycosphingolipid membrane organization, will be studied by fluorescence, monolayer, calorimetric, and NMR approaches in combination with site-directed mutagenesis. Preference to individuals with experience in cloning, protein refolding, and/or lipid model membranes as well as the physical approaches noted above. Parallel focus will be on the cellular function of sphingolipid transfer proteins, including potential roles in apoptosis and cell growth/cycling. Preference to individuals with strong backgrounds in cloning, two-hybrid analysis, promoter analysis, protein phosphorylation, or kinase-related signaling. Requires M.D. or Ph.D. in biochemistry, molecular biology, or related discipline. Send curriculum vitae and names of three references to: **Dr. Rhoderick E. Brown, The Hormel Institute, University of Minnesota, 801 16th Avenue Northeast, Austin, MN 55912. E-mail: reb@tc.umn.edu.** The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran status, or sexual orientation.

POSTDOCTORAL POSITIONS

University of Colorado Health Sciences Center
Training Grant in Cardiovascular Sciences

NIH-funded (T32) **POSTDOCTORAL FELLOW TRAINING POSITIONS** are immediately available at the University of Colorado Health Sciences Center (UCHSC), Denver, Colorado. Current work focuses on: (1) basic research in the biology of heart failure, including adrenergic signaling, cytokines, and pharmacologic protection of ischemic myocardium; (2) the vascular biology of coronary and pulmonary circulations; and (3) Cardiovascular Health Services/Epidemiology. Qualifications are Ph.D., M.D., or M.D./Ph.D. Salary commensurate with NIH scale. Qualified candidates should send letter of interest, curriculum vitae, and three letters of recommendation to: **Carlin S. Long, M.D., UCHSC Box 0130, 4200 East 9th Avenue, Denver, Colorado 80262.**

POSTDOCTORAL FELLOWSHIP EVOLUTIONARY BIOLOGY

Villanova University: renewable Postdoctoral Fellowship (50 percent teaching, 50 percent research), January 2003, to teach one course in Evolution and one survey course for nonscience majors. Specialization open. Send letter, teaching philosophy, research plans, curriculum vitae, official transcripts, and three recommendations by September 8, 2002, to: **Postdoctoral Search Committee, Biology Department, Villanova University, Villanova, PA 19085. E-mail: russell.gardner@villanova.edu.** Details at website: <http://www.biology.villanova.edu>. A Catholic-Augustinian university and Affirmative Action/Equal Employment Opportunity Employer, Villanova seeks a diverse faculty who can contribute to the University's mission and values.

POSTDOCTORAL POSITION

**Davis Heart and Lung Research Institute
The Ohio State University**

A position is available for a **SCIENTIST** with experience in cardiac physiology to study the mechanisms of post ischemic injury. Experience with isolated heart and *in vivo* models desired. Salary commensurate with experience. Please send curriculum vitae to: **Jay L. Zweier, M.D., 473 West 12th Avenue, Room 110, Columbus, OH 43210. E-mail: zweier-1@medctr.osu.edu.**

The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam era veterans and individuals with disabilities are encouraged to apply.

POSITIONS OPEN

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POSTDOCTORAL RESEARCH ASSOCIATE position is available immediately to join an NIH-funded research group studying bacterial pathogenesis. Selected individual will be primarily responsible for conducting independent research on bacterial pathogens and publication of results. Research will emphasize the molecular and cell biological characterization of virulence determinants in mycobacteria, Legionella, and/or other bacterial respiratory pathogens. A Ph.D. is required and a record of productive experience in bacterial pathogenesis preferred. Send curriculum vitae and names and addresses of three references, postmarked by September 1, 2002, or until a suitable candidate is found to: **Dr. Jeffrey D. Cirillo, c/o Ms. Pat Martinez, Department of Veterinary and Biomedical Sciences, University of Nebraska-Lincoln, P.O. Box 830905, 120 VBS, Lincoln, NE 68583-0905. Contact Ms. Martinez for assistance or information. Telephone: 402-472-8539; FAX: 402-472-9690; or e-mail: pmartinez@unlnotes.unl.edu.** The University of Nebraska is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity. We assure reasonable accommodation under the Americans with Disabilities Act.

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE

Position is available to study transcription regulation by cellular signaling. We have developed novel approaches for the analysis of protein interactions in living cells and nucleoprotein complex architecture (see *Molecular Cell* 9:789-798, 2002 and website: <http://www.umich.edu/~hhmi>). We offer an interactive work environment in a multidisciplinary research team. Please send your application with curriculum vitae and the names of three references to: **Dr. Tom Kerppola, Howard Hughes Medical Institute, University of Michigan School of Medicine, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0650. E-mail: kerppola@umich.edu.** Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

Structural Biology

University of North Carolina at Chapel Hill

NIH-funded Postdoctoral positions are available to examine the structure and action of promiscuous drug receptors (*Science* 292:2329), drug-processing enzymes (*Nature Structural Biology* 9:337), and protein-DNA complexes (*Science* 279:1504). Successful candidates will have experience in protein expression and purification; previous experience in protein crystallography is desired but not required. Send curriculum vitae and three letters of reference to: **Matthew R. Redinbo, Departments of Chemistry and Biochemistry and Biophysics, CB#3290, Chapel Hill, NC 27599-3290. E-mail: redinbo@unc.edu.**

RESEARCH ASSOCIATE. Study molecular mechanisms of ischemic tolerance in the retina. Ph.D., M.D., or M.D./Ph.D. Neuroscience, physiology, or vision research background. Use biochemical, molecular, pharmacological, and electrophysiological methods. Available in summer or fall 2002. Salary competitive dependent upon qualifications. Contact: **S. Roth, M.D., Department of Anesthesia, University of Chicago, 5841 South Maryland, MC 4028, Chicago, IL 60637. FAX: 773-834-0063; e-mail: roth8@midway.uchicago.edu.** Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE position available to study serotonin (5-hydroxytryptamine) receptors. A Research Associate position is available for a highly motivated individual to study the structure and function of 5-HT_{2A} serotonin receptors in the laboratory of **Bryan Roth M.D., Ph.D.** in the Department of Biochemistry at Case Western Reserve University Medical School. Experience in cell and molecular biology is essential and expertise in receptor pharmacology is useful. Prior postdoctoral experience is not necessary. Representative recent publications include: **Gray and Roth, Science**, in press; **Roth et al, PNAS** in press; and **Shapiro et al., J Biol Chem.** 277(13):11441-9, March 29, 2002. See laboratory website: <http://rothlab.cwru.edu/rothlabhomepage/Default.htm> for further details.

POSTDOCTORAL POSITIONS are available to pursue genetic and biochemical studies of conserved molecular mechanisms in yeast at the University of Calgary. Candidates must have obtained a Ph.D. degree within the past three years and have a strong background in cell and molecular biology. Send curriculum vitae to: **Dr. Dallan Young, 3330 Hospital Drive North West, Calgary, Alberta T2N 4N1 Canada. E-mail: young@ucalgary.ca.** For more details see our website: <http://www.ucalgary.ca/~young/lab.html>.

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For more information, visit our website: <http://www.radcliffe.edu>. Write, call, or e-mail for an application:

**Radcliffe Application Office
34 Concord Avenue
Cambridge, MA 02138
Telephone: 617-496-1324
FAX: 617-495-8136**

E-mail: fellowships@radcliffe.edu

Applications must be postmarked by October 1, 2002.

WORKSHOPS

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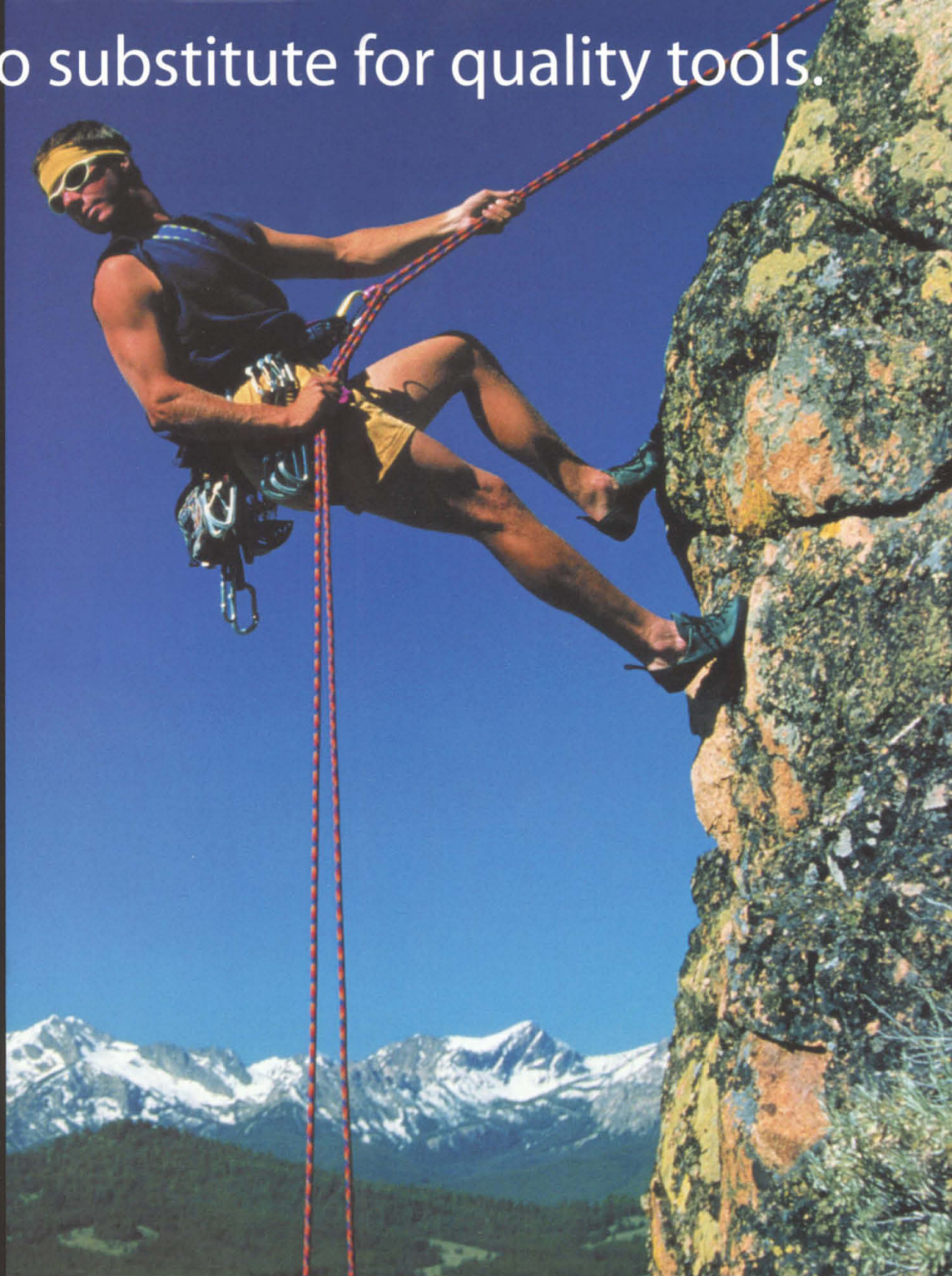
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