

## Results of the 2000 Election of AAAS Officers

Following are the results of the 2000 election. The slate and vote count are given for the president-elect and board members; for other offices, successful candidates are listed. Terms begin on 21 February 2001.

### General Offices

*President-Elect:* Floyd E. Bloom (9414), Ralph J. Cicerone (6139). *Board of Directors:* Sylvester J. Gates, Jr. (5526), Karen A. Holbrook (8972), Victor Rabinowitch (6151), Lydia Villa-Komaroff (8077). *Committee on Nominations:* Andrea K. Dupree, M.R.C. Greenwood, Anna C. Roosevelt, Linda S. Wilson.

### Section on Agriculture, Food, and Renewable Resources

*Chair-Elect:* Ronald L. Phillips. *Member-at-Large:* Alan B. Bennett. *Electorate Nominating Committee:* Anne R. Kapuscinski, Susan R. McCouch.

### Section on Anthropology

*Chair-Elect:* Lynne Goldstein. *Member-at-Large:* Leslie C. Aiello. *Council Delegate:* Robert W. Sussman. *Electorate Nominating Committee:* William C. McGrew, Linda D. Wolfe.

### Section on Astronomy

*Chair-Elect:* Alan W. Harris. *Member-at-Large:* Caitlin Ann Griffith. *Council Delegate:* James M. Moran. *Electorate Nominating Committee:* Helmut A. Abt, Gerald J. Fishman.

### Section on Atmospheric and Hydrospheric Sciences

*Chair-Elect:* Rana A. Fine. *Member-at-Large:* Richard C. J. Somerville. *Electorate Nominating Committee:* Barbara J. Turpin, Andrew J. Weaver.

### Section on Biological Sciences

*Chair-Elect:* Marjorie L. Reaka-Kudla. *Member-at-Large:* John T. Longino. *Council Delegates:* Mary Mennes Allen, Mary E. Barbercheck, Barbara Bentley, Rachel Fink, Alan Hastings, David W. Inouye, John C. Ogden, Esther C. Peters, Arthur N. Popper, David Ucker. *Electorate Nominating Committee:* Hope Hollocher, Billie J. Swalla.

### Section on Chemistry

*Chair-Elect:* Gary B. Schuster. *Member-at-Large:* C. Dale Poulter. *Council Delegates:* George L. Kenyon, Laura L. Kiessling, Kathryn A. Parker, Robert J. Silbey. *Electorate Nominating Committee:* Dale L. Boger, Larry E. Overman.

### Section on Dentistry

*Chair-Elect:* John J. Sauk. *Member-at-Large:* Keith E. Alley. *Electorate Nominating Committee:* James A. Lipton, Grayson W. Marshall, Jr.

### Section on Education

*Chair-Elect:* Audrey B. Champagne. *Member-at-Large:* Henry W. Heikkinen. *Electorate Nominating Committee:* Diane M. Bunce, Arthur Eisenkraft.

### Section on Engineering

*Chair-Elect:* Denice D. Denton. *Member-at-Large:* Ward O. Winer. *Electorate Nominating Committee:* Cristina H. Amon, Leo Young.

### Section on General Interest in Science and Engineering

*Chair-Elect:* Elizabeth S. Hafen. *Member-at-Large:* Sharon Dunwoody. *Electorate Nominating Committee:* James M. McCullough, Susanna Hornig Priest.

### Section on Geology and Geography

*Chair-Elect:* Kevin Burke. *Member-at-Large:* Carolyn S. Shoemaker. *Council Delegate:* Jere H. Lipps. *Electorate Nominating Committee:* Maureen E. Raymo, Kenneth L. Verosub.

### Section on History and Philosophy of Science

*Chair-Elect:* Rosemary A. Stevens. *Member-at-Large:* Kathryn M. Olesko. *Electorate Nominating Committee:* Douglas Allchin, Karen Hunger Parshall.

### Section on Industrial Science and Technology

*Chair-Elect:* William A. Golomski. *Member-at-Large:* Robert E. Schafrik. *Electorate Nominating Committee:* Neil Paton, James C. Tsang.

### Section on Information, Computing, and Communication

*Chair-Elect:* Clifford Lynch. *Member-at-Large:* Mark Stefik. *Electorate Nominating Committee:* Lois F. Lunin, Daniel A. Reed.

### Section on Linguistics and Language Science

*Chair-Elect:* Sheila E. Blumstein. *Member-at-Large:* Keren Rice. *Electorate Nominating Committee:* Ray Jackendoff, Barbara H. Partee.

### Section on Mathematics

*Chair-Elect:* H. B. Keller. *Member-at-Large:* Martin Golubitsky. *Council Delegate:* Amy Cohen. *Electorate Nominating Committee:* John Guckenheimer, Ruth Williams.

### Section on Medical Sciences

*Chair-Elect:* Rebecca H. Buckley. *Member-at-Large:* Elaine S. Jaffe. *Electorate Nominating Committee:* Ann E. Kelley, John Mendelsohn.

### Section on Neuroscience

*Chair-Elect:* Lynn T. Landmesser. *Member-at-Large:* Ann M. Graybiel. *Council Delegates:* Joseph T. Coyle, Irwin B. Levitan. *Electorate Nominating Committee:* Jane Macpherson, Peter L. Strick.

### Section on Pharmaceutical Sciences

*Chair-Elect:* Daniel L. Azarnoff. *Member-at-Large:* Ellen N. Cheung. *Electorate Nominating Committee:* Jeffrey L. Cleland, Rich B. Meyer, Jr.

### Section on Physics

*Chair-Elect:* Martin Blume. *Member-at-Large:* Steven E. Koonin. *Council Delegates:* Claire Max, Paul S. Peercy. *Electorate Nominating Committee:* Arthur Bienenstock, Bunny C. Clark.

### Section on Psychology

*Chair-Elect:* Charles G. Gross. *Member-at-Large:* Mary C. Potter. *Electorate Nominating Committee:* C. Sue Carter-Porges, Morton Ann Gernsbacher.

### Section on Social, Economic, and Political Sciences

*Chair-Elect:* Edward O. Laumann. *Member-at-Large:* T. Paul Schultz. *Electorate Nominating Committee:* Wendy Baldwin, Ronald R. Rindfuss.

### Section on Societal Impacts of Science and Engineering

*Chair-Elect:* Rachelle D. Hollander. *Member-at-Large:* Pilar N. Ossorio. *Electorate Nominating Committee:* Rachel E. Levinson, Anna C. Mastroianni.

### Section on Statistics

*Chair-Elect:* Nancy Flournoy. *Member-at-Large:* Sally C. Morton. *Electorate Nominating Committee:* Agnes M. Herzberg, Scott L. Zeger.

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## COMPUTER-AIDED CHEMISTRY SOFTWARE

A new release of the computer-aided chemistry package CAChe incorporates MOPAC 2000, a patented giant molecule quantum chemistry code. MOPAC 2000 extends the program's functionality in several areas. The linear-scaling algorithm enables CAChe to handle quantum chemistry calculations on systems up to 1000 atoms, including transition metals, in just minutes or hours on a desktop computer. The addition of d-orbitals improves the ac-

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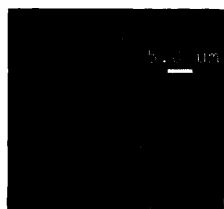
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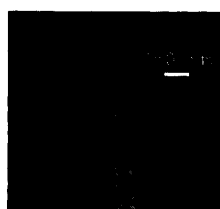
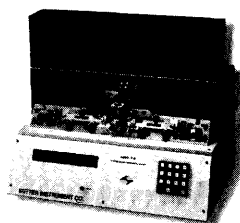
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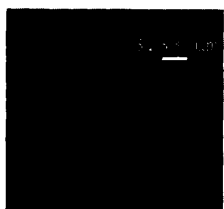
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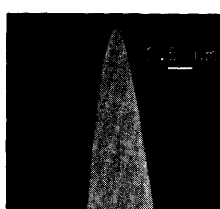
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### POSITIONS OPEN

#### HANNAH PROFESSORSHIP IN LARGE ANIMAL BIOTECHNOLOGY AT MICHIGAN STATE UNIVERSITY

Applications are invited for an endowed Hannah Professorship in Large Animal Biotechnology. The successful candidate will head a newly funded large animal transgenics facility and be expected to lead an internationally recognized, extramurally funded research program in one of the following areas: nuclear transfer; transgenics or gene targeting for enhanced food quality, food safety, animal productivity, or disease resistance; development of nutraceuticals or therapeutic products; or development of animal models for human disease. The successful candidate will also contribute to the leadership of a rapidly growing campuswide program in animal genomics with ongoing initiatives in functional genomics, genome mapping, and animal model development. Academic appointment will be in a tenure-track position in the Departments of Animal Science ([www.canr.msu.edu/Department/ans/](http://www.canr.msu.edu/Department/ans/)) and Physiology ([www.psl.msu.edu](http://www.psl.msu.edu)). Participation in graduate and postdoctoral training programs is expected. An attractive salary and start-up package will accompany the position. The Hannah Endowment provides significant annual funding for operating and technical support. New state-of-the-art animal and laboratory facilities for embryo culture, micromanipulation and transfer, high-throughput DNA sequencing, microarray experiments, and other procedures will be available on campus.

Interested individuals should provide complete curriculum vitae, a description of research interest and experience in large animal biotechnology (areas described above), a bibliography, and copies of key publications or reprints. Applications should be sent to: **Dr. George W. Smith, Committee Chairperson, Hannah Professorship in Large Animal Biotechnology, Search Committee, Department of Animal Science, Michigan State University, 1230 Anthony Hall, East Lansing, MI 48824.** Applications will be accepted until February 15, 2001, or until position is filled. *MSU is an Equal Opportunity/Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.*

#### TENURE-TRACK POSITION MOLECULAR GENETICS/ DEVELOPMENTAL BIOLOGY

The Department of Craniofacial Biology at the University of Colorado Health Sciences Center is undergoing a period of rapid expansion. We currently invite applications for a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** level. Applicants should have a Ph.D. or equivalent degree with postdoctoral research experience in the fields of molecular genetics, cell biology, or developmental biology. Individuals with research interests in neural crest cell development and function are especially encouraged to apply. However, strong candidates in all fields of cellular and molecular biology will be considered. The School of Dentistry is an integral component of the Health Sciences Center, and joint appointment with a compatible department in the School of Medicine will be available. The successful applicant will be expected to develop an externally funded research program and contribute to teaching at the graduate and undergraduate levels. Applicants should submit curriculum vitae, brief description of research interests, and arrange to have three letters of reference forwarded to:

**Dr. Trevor Williams**  
Chair, Faculty Search Committee  
Department of Craniofacial Biology  
School of Dentistry  
University of Colorado Health Science Center  
4200 East 9th Avenue, C-286  
Denver, CO 80262

For full consideration, complete applications should be received by February 28, 2001. *The University of Colorado Health Sciences Center is committed to Equal Opportunity and Affirmative Action.*

### POSITIONS OPEN

#### FACULTY POSITION CARDIOVASCULAR PATHOPHYSIOLOGY

The University of Alabama at Birmingham invites applications for a tenure-track or tenured faculty position in the Department of Pathology, Division of Molecular and Cellular Pathology. The minimum requirements are that the candidate hold a Ph.D., M.D., or M.D./Ph.D. degree and have completed postdoctoral training. This is a full-time basic science position with no clinical duties, although a modest amount of teaching and ample graduate student training opportunities will be a part of the job description. Rank (**ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR, or PROFESSOR**) will be determined by experience. Salary and benefits are very competitive with an excellent start-up/space package. The successful candidate will have a strong interest in the cellular/molecular basis of cardiac myocyte, vascular smooth muscle, or endothelial cell pathophysiology. Interest in gene expression and signal transduction in cardiovascular cells is considered a plus. The candidate will join a growing group of basic and clinical investigators in the cardiovascular research enterprise at UAB. The UAB Medial Center ranks among the top 20 in NIH funding, while state-of-the-art facilities for mass spectrometry and proteomics, gene expression profiling, macromolecular crystallography, and genetic models of disease are some of the benefits enjoyed by the faculty. Training grants include an NIH-funded predoctoral cardiovascular pathophysiology grant and a Cardiology Fellowship program. Interested candidates should submit a letter of interest together with comprehensive curriculum vitae that outlines research interests to: **Thomas M. Lincoln, Ph.D., Vice Chair for Research, the Department of Pathology, University of Alabama at Birmingham, 1670 University Boulevard, Birmingham, AL 35294-0019.**

University of California, San Diego: The Department of Chemistry and Biochemistry invites applications for the position of **EXECUTIVE OFFICER**. The Department has over 70 full-time and associated faculty, 200 employees, approximately 300 graduate and postdoctoral researchers, and annual expenditures in excess of \$35 million. The level and salary will be commensurate with qualifications and experience and is based on the University of California pay scale. Candidates should possess an advanced degree (Ph.D. preferred) in chemistry, biochemistry, or a related field and administrative experience supporting teaching and/or research programs. Federal contract and grant experience and familiarity with recent advances in computer technology are advantageous. The Executive Officer reports to the Department Chair and is responsible for the supervision of all departmental financial, clerical, administrative, and technical support areas. There is an expectation of continued growth in all these areas so as to provide maximum support to the instructional and research missions of the Department and the University as these develop over time. Applications should include complete curriculum vitae, and the names and addresses of at least three references and should be sent to: **Chair, 3-810S, Department of Chemistry/Biochemistry, University of California, San Diego 0332, La Jolla, CA 92093-0332.** Prompt response is recommended but all applications received by 31 January 2001 or until this position is filled will receive full consideration. The recruitment process will remain open until the position is successfully filled. *The University of California is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity. Applications from women and minorities are especially encouraged.*

#### Ph.D.

The University of St. Eustatius School of Medicine has limited scholarships available for Ph.D.s to pursue the degree of Doctor of Medicine. Interested parties should reply with curriculum vitae to: **C. Frank Chambers, M.D., Managing Director at e-mail: [drchambers@eustatiusmed.edu](mailto:drchambers@eustatiusmed.edu).**

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# High-level Scientific

**The European Commission's High-Level Scientific Conferences promote scientific and technological excellence by creating opportunities for scientific exchange by:**

- **allowing senior researchers to impart their experience to the younger generation;**
- **creating a framework for the networking of EU researchers with scientists outside the Member and Associated States.**

These conferences are supported under the Human Potential Programme (IHP) with a budget of 35 Million Euro for events in any scientific field. Some 100,000 researchers are expected to benefit from IHP's support of the following types of events:

## types of conferences

### **EuroConferences**

High-level meetings on a focused theme at the cutting edge of research; Support for events lasting up to 7 days; Up to 150 participants.

### **Euro Summer Schools**

Advanced training for young researchers on a defined syllabus; Multidisciplinarity is particularly encouraged; Support for 30-day events at any time of year; Up to 150 participants.

### **EuroLabCourses**

Advanced training in practical techniques in a laboratory or field environment; Support for events up to 30 days; Up to 50 participants, including lecturers; Industry participation is particularly encouraged.

### **EuroWorkshops**

Meetings to analyse the most recent research results and plan further developments; Support for meetings lasting up to 30 days; Up to 50 participants active in scientific fields of extreme dynamism.

### **Large Conferences**

Funding is available to allow young researchers to attend large international events (more than 150 participants).

### **PhD EuroConferences**

Support exclusively for young researchers to organise and participate in their own conference; Up to 150 participants at events of up to 7 days.

### **Eurotron Conferences**

Events similar to one of the types above but held over the Internet. Extended series of events, and projects involving both physical and virtual events, are encouraged.

## who can participate?

### **To apply for funding for an event**

Researchers wishing to organise their own "High-Level Scientific Conference" should apply to the European Commission for a Guide for Proposers and application form. Both are available from the Web site:

**[www.cordis.lu/improving](http://www.cordis.lu/improving)**

### **To participate in a funded event**

Interested researchers should make direct contact with the event organisers for help with travel, subsistence or participation fees for a particular event. An on-line database with the detailed list of conferences and the organisers contact details is available on our Web site. Please see under **Selected Conferences**.





# Conferences

## what does the funding cover?

Participation of young researchers (up to the age of 35 at the time of the event - allowance is made for childcare, compulsory military or civil service) who are nationals of, and active inside, a Member or Associated State (up to 100%);  
Participation of researchers, of any age, who are nationals of, but active outside, Member and Associated States (up to 100%);  
Participation of invited keynote speakers and organisers of any nationality (up to 50%);  
Expenses related to the organisation of events.

## deadlines for organisers

**1 February 2001**

**1 February 2002**

Proposals may be submitted at any time. Events can start no sooner than 6 months after the relevant deadline.

## frequently asked questions

### Is 100% funding possible?

Normally this cannot be achieved. Therefore, proposers are advised to have at least one other source of funding to cover expenses that are not covered by the contract with the Commission.

### How much money is awarded?

Normally, up to 50,000€ for each event. There is a limit of 280,000€ per project. Exceptions may be made in well-justified cases.

### Which fields of research are eligible?

A proposal may be in any field of scientific research, provided there is a strong training element.

### Where should events take place?

The events proposed, and the legal entity responsible for organising them, must be located in a Member or Associated State\*.

\*[www.cordis.lu/fp5/src/3rdcountries.htm](http://www.cordis.lu/fp5/src/3rdcountries.htm)

### Is there any flexibility in the guidelines?

Allowances can be made in well-justified cases.

### How are proposals evaluated?

Proposals that meet the eligibility criteria are evaluated by a multidisciplinary panel of independent experts. For full details, please refer to the Guide for Proposers available on the Web site.

### What success rate can we expect?

The predicted selection rate is at least a third of conference proposals.

## areas covered

Conferences can be on any scientific topic:

**Physics**

**Chemistry**

**Life Sciences**

**Engineering Sciences**

**Environment, Geosciences**

**Economic, Social & Human Sciences**

**Mathematics & Information Sciences**

## EC contact

Dr Helmut Morsi  
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# MIT

## FACULTY POSITIONS

### Department of Civil and Environmental Engineering

The Department of Civil and Environmental Engineering at MIT seeks applications for up to two faculty positions, at junior or senior levels, in the following fields:

Our first priority is in the field of **Applied Information Technology**. The ideal candidate will have proven expertise in a technical area of IT, such as database systems, data assimilation and fusion, information processing, multiscale modeling, advanced architectures and algorithms for complex system simulation, and control of distributed processes relating to the monitoring, design, or management of the built and natural environments. Successful applicants will have strong methodological capabilities as well as a demonstrated ability in one or more application domains. The new faculty member will be expected to teach and develop research in both methodology and applications. The successful candidate will join a dynamic core of existing faculty which has a strong and demonstrated commitment to advancing the application of information technology in civil and environment/engineering.

**New Sensor Technologies** and/or the design of novel sensor systems for applications in the built and natural environments. This may include microelectromechanical, chemical and biological, nondestructive remote sensors of physical infrastructure and/or the environment.

**Micromechanical/Chemical Interaction of Fluids and Particles.** Context may include problems in geotechnology, ground remediation, sediment or contaminant transport, or natural hazards.

**Physical Infrastructure** with emphasis on novel structural control, design or application of materials.

**Modeling and Management** of Large Scale Infrastructure Systems, including large scale construction, transportation systems, water resource systems, and communications systems.

**Environmental Engineering and Science**, including tropospheric air quality and complex system analysis of ecosystems and land-atmosphere interactions.

Selected candidates will be expected to teach undergraduate and graduate subjects and to establish an active sponsored research program. MIT provides full academic year salary, excellent benefits and start-up help. Women and minority applicants are particularly welcomed.

Candidates should send a curriculum vitae and names of three references to: **Professor Rafael L. Bras, Head, Department of Civil and Environmental Engineering, Room 1-290, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, MA 02139-4307.** Electronic applications may be sent to: [CEED@mit.edu](mailto:CEED@mit.edu). Applications are due by February 15, 2001.



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### DIRECTOR OF PHARMACOMETRICS

Immunex is looking for an energetic, creative individual to establish a premier pharmacometrics group as the Director of Pharmacometrics. Your responsibilities will encompass all pharmacokinetic and pharmacodynamic efforts that support IND, BLA, and NDA submissions, development, and implementation of all PK/PD strategies for the Immunex product pipeline, and evaluation of potential new development compounds. You will represent Immunex externally, participating in scientific symposia while sustaining a strong publication record. Experience in the conduct of population evaluations and clinical trial simulations, 10 years' experience conducting preclinical PK/PD and Clinical Pharmacology evaluations, and a M.D. Ph.D. or Ph.D. required. (#00-0446)

### SENIOR SCIENTISTS

Pharmacometrics is also seeking two Senior Scientists to work amongst our world-class scientists. Responsibilities include generating preclinical and clinical PK/PD development plans and executing those plans in support of IND, BLA, and NDA submissions. You will assist in the assessment of new development compounds and participate on project teams. You will represent Immunex at external meetings, participate in scientific symposia, and sustain a strong publication record. Your success will be measured by how well you integrate fundamental understandings of molecular biology, physiology, and PK/PD into information that explains and predicts drug safety and efficacy. This position requires experience in the conduct of population evaluations, at least 5 years' experience conducting preclinical PK/PD and Clinical Pharmacology evaluations, and a Ph.D. in Pharmacokinetics, Pharmacology, or related field. (#00-0447/00-0448)

At Immunex, you will find the resources, support, and freedom to accomplish great science. In addition, you will enjoy an exceptional compensation and benefits package. Please submit a scannable resume specifying Job Number to e-mail: [job-info@immunex.com](mailto:job-info@immunex.com).

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Immunex is an equal opportunity employer committed to diversity.

# Post-Doctoral Fellowships in New Zealand

This is a **rare opportunity** for people with the passion and commitment to achieve scientific excellence to take up a two year post-doctoral fellowship. You will benefit from mentoring by a leading New Zealand researcher and have the scope to make a significant personal contribution to science.

Landcare Research is New Zealand's largest terrestrial environmental research organisation (400 staff) with a clearly defined scientific purpose: to make a difference for a truly clean, green New Zealand.

Opportunities exist in the following topic areas:

Research Topic	Mentor	E-mail
Demographic processes in forests	Rob Allen	allenr@landcare.cri.nz
Spatial patterns of invertebrate biodiversity	Gary Barker	barkerg@landcare.cri.nz
Freshwater algae systematics	Ilse Breitwieser	breitwieseri@landcare.cri.nz
Ecosystems functions: Linking above and below ground processes	Bill Lee	leew@landcare.cri.nz
Does soil diversity control plant diversity?	Graham Sparling	sparlingg@landcare.cri.nz
Strategies for sustaining indigenous biodiversity on Maori land	Graham Nugent	nugentg@landcare.cri.nz
How does vegetation composition drive possum density?	Murray Efford	effordm@landcare.cri.nz
Genetic and functional diversity of mycorrhizal fungi	Ross Beever	beeverr@landcare.cri.nz
Invasive weeds in New Zealand	Simon Fowler	fowlers@landcare.cri.nz
Uncertainty in national soil datasets	Allan Hewitt	hewitta@landcare.cri.nz
CO <sub>2</sub> emissions from sediment in transit from land to sea	Noel Trustrum	trustrumn@landcare.cri.nz
Scaling up greenhouse gas emissions from site to national scale	Kevin Tate	tatek@landcare.cri.nz
Dynamics of C, N and P at a catchment scale	Breck Bowden	bowdenb@landcare.cri.nz
Managing environmental resources of concern to indigenous people	Breck Bowden	bowdenb@landcare.cri.nz



Other benefits include: competitive salaries, up to date facilities, opportunities to attend and present at conferences and flexible working conditions.

For further information on Landcare Research and these opportunities, check out our website at [www.landcare.cri.nz](http://www.landcare.cri.nz). If interested in one of these fellowships, contact the relevant mentor and, for general and employment queries, contact Andrew Van Herpt, HR Advisor. Email: [vanherpta@landcare.cri.nz](mailto:vanherpta@landcare.cri.nz). Phone enquiries welcome: +64-3-325 6700



Manaaki Whenua  
Landcare Research

## Two Tenure Track Faculty Positions Molecular Ecology, Shellfish Biology and Aquaculture

**THE SCHOOL OF AQUATIC AND FISHERY SCIENCES,** University of Washington, seeks applications for two nine-month tenure-track faculty positions at the Assistant Professor level, effective fall quarter 2001. Under exceptional circumstances, qualified candidates at the Associate Professor level may be considered. The successful applicants will be expected to develop strong externally funded research programs, and are encouraged to cultivate scientific collaboration with other academic units at the University, and with relevant constituents in the Pacific Northwest region including private industry and local, state, tribal, and federal agencies. In addition to a strong commitment to undergraduate education including experiential learning, the School has an active graduate program leading to MS and PhD degrees. We benefit from generous endowment resources that provide numerous annual awards to support graduate and undergraduate students. The School maintains several unique facilities including on-campus salmon pond, hatchery, and other finfish research capability, three active field camps around Bristol Bay, Alaska, several hundred acres of undeveloped watershed on Hood Canal that contain salmon runs, and a molecular genetics laboratory. Shellfish research is supported through several long-standing affiliations including the Friday Harbor Laboratory (UW), National Marine Fisheries Service logistics and scientific programs directed at crustacean stocks, and state agency and industry installations focused on bivalve aquaculture and conservation. The Western Regional Aquaculture Center that provides competitive research support across a spectrum of priority aquaculture topics is part of the School's programmatic resources. Start-up funds, laboratory space and facilities will be available to assist the successful candidates in developing vigorous externally funded research programs that support graduate students.

**Shellfish Biology and Aquaculture:** We seek expertise in biology and aquaculture of marine invertebrates, principally molluscs and crustaceans, contributing to the School's existing strengths in ecology, restoration, management, and aquaculture. Specific research areas of interest include reproduction, genetics, ecology and environmental effects relating to marine invertebrate populations, fisheries, and aquaculture operations. Candidates with interests in disease, nutrition and physiology will also be considered. Instructional obligations will involve about three courses per academic year, and may include a combination of general aquaculture, molluscan and crustacean biology, culture, and management. Lower division courses in general ecology and marine biology are also appropriate as the School builds teaching links to allied scientific departments and programs.

**Molecular Ecology:** We particularly seek candidates with a record of research in the application of molecular methods to fisheries management or conservation biology of aquatic organisms. Instructional obligations will involve about three courses per academic year and may include undergraduate instruction in some combination of ecology, evolution, or conservation genetics; and graduate instruction in the application of molecular methods to ecology and conservation biology.

Qualified individuals will have an earned PhD in related fields above. Applicants should send, by 16 February 2001, a statement of qualifications including a synopsis of teaching and research philosophy, curriculum vitae, reprints of three significant recent publications, and names and contact information for four references to:

**Dr. David Armstrong, Director, School of Aquatic and Fishery Sciences 355020, University of Washington, Seattle, WA 98195-5020 USA.** For further information about the School and the University please visit our website at <http://www.fish.washington.edu>. The University of Washington is building a culturally diverse faculty and strongly encourages applications from female and minority candidates.

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

## FACULTY POSITIONS

### WOMEN'S HEALTH RESEARCH SCHOLARS PROGRAM VIRGINIA COMMONWEALTH UNIVERSITY

Virginia Commonwealth University has established an Interdisciplinary Women's Health Research Scholars program to produce faculty researchers proficient in designing, implementing, analyzing and publishing results from original research related to women's health and ultimately in obtaining independent funding in the field. This NIH-sponsored career development award is part of the national Building Interdisciplinary Research Careers in Women's Health (BIRCWH) program. Established researchers will mentor successful applicants in one or more of the following areas: substance abuse, psychiatric genetics, reproductive health, cancer and diseases associated with aging. Interdisciplinary research is especially encouraged. Scholars are committed to spend at least 75% of their full-time professional effort in women's health research training (including gender differences). Two to five years of salary support will be provided for up to five junior faculty positions, which will be established at the appropriate academic rank in a department relevant to the candidate's background and interests. Applicants must be U.S. citizens or hold legal admission as permanent residents; possess a clinical doctorate or Ph.D. or its equivalent; must not have served previously as principal investigator on an NIH research project or training award; must provide evidence of personal achievement, scholarship, intellectual ability and professional integrity; must demonstrate potential for development as a successful independent researcher.

To apply: send a letter of interest, including career goals; a three-page description of specific research interests; and a curriculum vitae to **Roy W. Pickens, Ph.D., Associate Vice President for Research, c/o the VCU Institute for Women's Health, Attention: Anne Rowlett, Virginia Commonwealth University, P.O. Box 980549, Richmond, Virginia 23298-0549.** Review of applications begins after February 4, 2001.

*Virginia Commonwealth University is an equal opportunity/affirmative action employer. Women, minorities and persons with disabilities are encouraged to apply.*

## POSTDOCTORAL FELLOW GENETICS OF DIABETES

The Max McGee Diabetes Research Center at the Medical College of Wisconsin and Children's Hospital of Wisconsin seeks an enthusiastic and able postdoctoral fellow to take a lead role in a project exploring expression profiling differences in the pathogenesis of diabetes. Position requires prior experience in molecular biology and, preferably, in microarray technology. The successful candidate will join an interdisciplinary team at the Center, who will use emerging technologies to integrate mapping, sequencing and expression data to produce a functional genomics framework to delineate diabetogenic pathways for further investigation.

Interested candidates may send a curriculum vitae with names and addressees of 3 references to:



**MEDICAL  
COLLEGE  
OF WISCONSIN**

**Medical College of Wisconsin  
Department of Pediatrics  
Attn: Dr. Soumitra Ghosh, MD, PhD  
8701 Watertown Plank Rd, MFRC756  
Milwaukee, WI 53226**

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**United States Environmental Protection Agency  
National Center for Environmental Assessment  
Cincinnati, Ohio**

The National Center for Environmental Assessment-Cincinnati (NCEA-CIN) of the U.S. EPA Office of Research and Development (ORD) is seeking candidates for Federal, three-year postdoctoral research positions. NCEA serves as the national resource center for human health and ecological risk assessment, integrating biological, ecological, chemical, and socio-economic data and models to characterize risks. The six potential postdoctoral positions are:

**Integration of Toxicokinetics and Toxicodynamics in Human Health Risk Models**

This post-doctoral position involves development of a framework for incorporation of toxicokinetic and toxicodynamic information into quantitative human health risk assessment models. Specific elements of this research include: 1) developing prototype toxicokinetic/toxicodynamic models; 2) identifying data requirements for representation of toxicokinetics and toxicodynamics within these models; 3) establishing criteria for the generation of data to satisfy those data requirements; 4) developing quantitative probabilistic approaches for incorporation of variability and uncertainty within the models; and 5) developing a case study.

**Applying Fate and Transport Models and Geospatial Analysis in Exposure Assessment**

This post-doctoral position involves research to develop a framework for applying fate and transport models and geographic information system (GIS) in characterizing exposure assessments for humans or ecological systems. Specific issues which must be addressed are: 1) identification of susceptible populations using existing methods; 2) identification and evaluation of models and spatial analysis in exposure assessment; and 3) development and application of innovative fate and transport models using case studies.

**Assessing the Causes of Impairment in Aquatic Ecosystems**

This post-doctoral position involves research on the development of methods to determine the causes of observed impairments of aquatic ecosystems. The methods will be used by state and federal agencies to determine the appropriate targets of remedial or regulatory action when loss of species diversity, physical anomalies, or other impairments are detected in bioassessments. The research will involve determining characteristic effects, exposure-response relationships, and diagnostic measures for particular stressors of aquatic organisms and ecosystems and creating guidance for their use and interpretation.

**Nutrient and Pathogen Export from Midwestern Watersheds**

This post-doctoral position involves research to develop a scientific framework for designing and modeling alternative future scenarios for the reduction of nutrient export from agricultural watersheds and its effect on downstream ecosystems. This research will include three components: 1) establishment of the relationship between watershed land-use, riparian buffer size, and nutrient and pathogen export in midwestern watersheds; 2) watershed ecosystem modeling for prediction of potential for cumulative basin-wide reduction of nutrient and pathogen export; and 3) the comparison of the economic aspects of the various restoration/nutrient reduction scenarios. The framework will first be applied to the Little Miami River basin, a predominantly agricultural watershed in southwestern Ohio, then applied to the Mississippi River basin.

**Regional Scale Risk Assessment of Ecosystems**

This post-doctoral position involves research on the development of a framework for regional-scale risk assessments of ecosystems. Specific issues which must be addressed are: 1) identification and testing of appropriate ecosystem-level endpoints for risk assessment; 2) integration of ecosystem, environmental and landscape data from different spatial and temporal scales; and 3) mitigating the effects of uncertainties associated with ecosystem-level endpoints and regional-scale data.

**Applying Epidemiologic Data, Information and Methodologies to Human Health Risk Assessment Problems**

This post-doctoral position involves developing research to facilitate better integration and application of human epidemiologic data into the process of environmental health risk assessment. Issues to be addressed include: 1) evaluating, comparing and integrating human epidemiologic information with animal toxicology data; 2) improving exposure assessment components of environmental epidemiologic studies for application to specific quantitative risk assessment problems; 3) statistical methodologies for evaluating, comparing and combining related environmental epidemiologic data sets. Current areas of emphasis in risk assessment include comparative risk, cumulative risk and aggregate exposure. The position does not involve direct field or laboratory work.

Applicants with doctoral degrees in toxicology, pharmacology, biomathematical modeling, soil science, environmental science, exposure modeling, environmental engineering, ecology, ecotoxicology geography, epidemiology, public health, biostatistics, or related fields are encouraged to apply.

These post-doctoral positions are three-year Federal Government term appointments that will begin immediately at a starting salary range of \$42,908 - \$66,851 commensurate with qualifications. Selected candidates will be eligible for a full benefits package, health insurance, life insurance, retirement, and vacation and sick leave. Preferred candidates will have earned a Ph.D. in one of the above disciplines within the past five years, or will be eligible for award of the degree no later than August 31, 2001. United States citizens are preferred, however, these positions may be filled by qualified non-citizens.

To apply for NCEA-CIN post-doctoral positions, please send a curriculum vitae, letter of recommendation from your senior research advisor or other comparable official, additional reference(s) as available, and a letter indicating your research focus to: **Dr. Glenn Suter, National Center for Environmental Assessment (MS-117), ATTN: Post-Doctoral Positions, U.S. Environmental Protection Agency, 26 W. Martin Luther King Drive, Cincinnati, Ohio 45268.** Applications will be received and evaluated by NCEA on an ongoing basis.

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

**NeoTherapeutics**, a cutting edge biopharmaceutical company located in Irvine, California, is focused on the development of small molecule drugs for unmet medical needs for the treatment of important diseases. Neotrofin™ is in late stage clinical trials for Alzheimer's disease and is being developed for other neurodegenerative diseases such as Parkinson's Disease and Spinal Cord Injury. **NeoGene Technologies**, a subsidiary of NeoTherapeutics is engaged in functional genomics research. **NeoOncoRx**, a subsidiary of NeoTherapeutics is engaged in the development of anticancer drugs. NeoTherapeutics offers competitive compensation and benefits, and an opportunity for advancement within the Company. NeoTherapeutics, Inc. is an Affirmative Action/Equal Opportunity Employer offering a smoke-free work environment. Please send your curriculum vitae in confidence, with a cover letter to:

**NeoTherapeutics, Inc. | Human Resources | PO BOX 57052 | Irvine, CA 92619-7052**



### Medicinal Chemists

Create research plans, synthesize novel compounds and work in a team environment. These senior level positions require a Ph.D. or equivalent in Medicinal or Synthetic Organic Chemistry and 2+ years experience in the pharmaceutical industry. AD#1291

### Pharmacologists

Create research plans and study mechanisms of action and efficacy in preclinical disease models. A Ph.D. in Pharmacology and 2+ years of experience in a pharmaceutical environment are required. Prior experience should include in vitro or in vivo studies on neurodegenerative and CNS pharmacology. AD#1292

### Drug Metabolism

Create a research plan and perform studies to discover metabolic pathways for new drugs. This opportunity is for an experienced scientist with a MS/Ph.D. in Pharmacology or related disciplines with prior research covering in vitro and in vivo identification and quantification of drug metabolites. Prior pharmaceutical industry experience includes studies on microsomal P450 and absorption models in cell culture and laboratory animals. AD#1293



### Scientists

Focus on the discovery of natural ligands of orphan G protein-coupled receptors and evaluate their potential as therapeutic agents. Qualifications include a Ph.D., proven experience in LC-MS peptide sequencing, HPLC purification of natural compounds and genome data bank searching. AD#1294

Focus on anatomical analyses and in-situ hybridization. Qualifications include a Ph.D., expertise in histochemical and in-situ hybridization techniques and knowledge of neuroanatomy. AD#1295

### Research Assistants

Support orphan receptor ligand searches. Work in the areas of cloning receptor expression and assay receptor constructs. These positions require a BS or MS degree and experience in areas such as molecular cloning; isolation and characterization of plasmid analysis; DNA; use of DNA modifying enzymes; electrophoretic analysis of DNA and PCR; cell culture maintenance; DNA transfection, cell harvesting; stable cell line establishment. AD#1296

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### Opportunities in Multidisciplinary Biology

The Pacific Northwest National Laboratory is looking for outstanding scientists to help build a new program in multidisciplinary biology, with a particular focus on mechanisms by which cells process information at the cell surface. The new program combines approaches such as mass spectrometry-based proteomics, novel cell visualization instrumentation and computation biology to provide a systems-level understanding of how cells respond to their environment.

We are seeking qualified applicants at all levels. We are particularly interested in researchers who apply cutting-edge techniques in molecular/cell biology, proteomics, and biochemistry to address contemporary problems in cell signaling, including apoptosis, protein-protein interactions, proteolysis, membrane trafficking and cell migration. **These positions offer unparalleled opportunities to operate at the interface between experimental biology and the physical and computational sciences.**

Pacific Northwest National Laboratory, operated by Battelle, is one of nine U.S. DOE national laboratories. Located in Richland, Washington, the pleasant desert climate and Columbia River make this area great for outdoor activities such as hiking, biking, and snow and water skiing. Coupled with the small town atmosphere, this area provides a unique mix of rural living with high tech opportunities. For more information, please visit our website at: <http://www.pnl.gov/>.

Interested parties should submit curriculum vitae, statement of professional goals and research interests to:

**Search Committee K9-21**  
c/o Dr. David Springer  
Pacific Northwest National Laboratory  
P.O. Box 999  
Richland, WA 99352

**Pacific Northwest  
National Laboratory**

Operated by Battelle for the  
U.S. Department of Energy

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F/M/D/V are encouraged to apply.



## THE UNIVERSITY OF MICHIGAN MEDICAL SCHOOL

### TENURE-TRACK FACULTY POSITIONS IN HUMAN GENETICS

The University of Michigan is launching a new initiative in Life Sciences and expanding in the areas of genetics, genomics, biostatistics and bioinformatics. The Department of Human Genetics seeks to fill several faculty positions for the 2001 academic year. Positions are available with rank at the **Assistant, Associate or Full Professor** level to be determined based on experience. All areas of human genetics will be considered. We are also recruiting for the **Sellner Professorship** in Human Genetics, an endowed chair position for an M.D. or M.D., Ph.D. with an active research program. Applicants will also be considered for the University-wide Biological Scholars Program. Attractive, newly renovated laboratory space and resources are available. The Department has 27 faculty with strong research programs in human, molecular, and developmental genetics and animal models of human disease. (<http://www.med.umich.edu/hg/Home.html>)

Applicants should submit a curriculum vitae, including a brief statement of current and future research interests, and arrange for three letters of reference to be sent directly to:



Sally Camper, Ph.D.  
Chair, Faculty Search Committee  
c/o Ms. Denise Bachoura  
Department of Human Genetics  
University of Michigan Medical School  
4909 Buhl, 1241 E. Catherine Street  
Ann Arbor, MI 48109-0618  
[bachoura@umich.edu](mailto:bachoura@umich.edu), 734-764-1359

Review of applications will begin immediately.  
Applications must be completed by March 1, 2001.

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together we will  
unite around  
something important



With the world population expanding at a dramatic rate, food is a precious commodity. As a world family, we can unite in making the world a better place. Monsanto Company is innovating to improve health, sustain our environment, and find solutions to the growing global needs for food and health. Join us in one of these key roles:

### **MS/BS Molecular Biologist/Biochemist**

Conduct research in the genetic engineering of plants for yield enhancement. Work in a team-based environment to genetically engineer crop plants. Specific responsibilities include gene isolation and manipulation, kinetic evaluation of enzymes, enzyme assay development, biochemical and physiological characterization of plants. MS degree or BS with equivalent experience in Molecular Biology and/or Biochemistry or related disciplines required. Experience with recombinant DNA technologies including nucleic acid isolation and characterization, gene cloning and expression, and PCR techniques a must. **Job Code: MBB**

### **Cell Biologist, Chloroplast Transformation**

The successful candidate will be engaged in research aimed at development and implementation of corn plastid transformation technology. As a member of a team developing novel explant types and selection schemes, you will be responsible for initiation, maintenance and transformation of corn tissue cultures. Candidates must have at least an MS degree; and experience in monocot cell culture techniques. **Job Code: CBCT**

### **Cell Biologist, Transformation**

Provide production support in the field of plant tissue culture, developmental biology, and plant transformation. Working knowledge in tissue culture, molecular biology, and gene monocot/expression are essential. BS/MS in Genetics, Cell Biology, or a related field and relevant experience in dicot transformation and Agrobacterium Transformation required. **Job Code: CBT**

### **Molecular Biologist, Agricultural, Seed Quality Control**

Work with a team of biologists to develop PCR-based diagnostic assays to identify and quantitate transgenes in transformed crop plants. BS or MS in a biological sciences field, with experience in molecular biology techniques. Experience in PCR is required. Experience in plant DNA extractions and quantitative PCR, fluorescence-based assays and robotics is highly valued for this position. Attention to detail and quality and an ability to summarize and communicate results effectively are essential to this position. **Job Code: MBAS**

### **Research Scientist, Genomics**

Join a team of molecular biologists to support mapping and cloning activities as part of Monsanto's Genomics program. MS or BS in Molecular Biology/Biochemistry or equivalent with 5 or more years of experience in Genomics or related field. Experience of physical mapping, clone construction and characterization and large scale subcloning technology are all highly desirable. Excellent communication and interpersonal abilities will be required to effectively function in the high-performance team-based organization. The preferred candidate will also have strengths in critical thinking, innovation, development of scientific hypothesis and research plans, strong technical skills and commitment to results and organization. **Job Code: RSG**

### **Plant Molecular Biologist - Roundup Ready, Biotechnology**

The Roundup Ready Biotechnology group is seeking a highly motivated plant molecular biologist with BS/MS in Molecular Biology or related field and 5-10 years of experience. The successful candidate will become a member of a multi-disciplinary team whose goal is to create and evaluate transgenic plants for commercial concepts. Responsibilities include: Vector construction, nucleic acid and protein isolation and molecular analysis of transgenic plants (e.g. northern, southern, western, PCR). Additionally, an understanding of bioinformatics and plant gene expression, physiology, or genetics is preferred. Excellent communication skills and the ability to function independently, yet integrate into a team-oriented environment are essential. **Job Code: PMB**

### **Bioinformatics Scientists**

Master's or Ph.D. in Biology or related field, and have a proven ability in analyzing large volumes of biological data using computational approaches. Programming (Perl, C, Java) and database (relational, SQL queries) experience is essential. **Job Code: BS**

### **Sr. Analytical Chemist**

Ph.D. in Analytical Chemistry with 3 yrs experience. HPLC, GC, and MS, and experience with analytical methods in crop and environmental matrices. A familiarity with regulatory processes and GLP regulations is highly desirable. **Job Code: SAC**

### **Cell Biologists and Molecular Biologists**

Ph.D., MS or BS degree with 2-5 years hands on research experience in an academic, industrial, or laboratory environment. **Job Code: CBMB**

**All positions are based out of our St. Louis offices.** Monsanto offers competitive compensation, an attractive benefits package, and an outstanding working environment. For immediate consideration, forward resume indicating position preference via job code, to: **Monsanto, Human Resources, 800 N. Lindbergh, Mail Zone E351, St. Louis, MO 63167. Ph: 314-694-6715. Fax: 314-694-6554. Email: becky.g.prevost@stl.monsanto.com**

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## Assistant Professor Positions Full Professor Position

The Division of Life Sciences at The University of Texas at San Antonio invites applications for one full professor and one assistant professor in CELL AND MOLECULAR BIOLOGY, and three assistant professors in IMMUNOLOGY, BIOINFORMATICS, AND COMPUTATIONAL NEUROSCIENCE, which will open in the fall of 2001 pending budget approval. The Division of Life Sciences consists of 24 faculty members and offers a bachelor's degree in Biology, master's degrees in Biology and Biotechnology and a doctoral degree in Biology with an emphasis in Neuroscience, plus a planned second emphasis in Cell & Molecular Biology. All of the new faculty members will have the opportunity to be part of a developing Bioengineering/Biotechnology Program for the South Texas Area to be centered in a planned 160,000 square foot Bioengineering/Biotechnology building at UTSA.

### FULL PROFESSOR

The full professor will play a key role in developing the planned doctoral second emphasis in Cell & Molecular Biology and will contribute to our other programs. **Required qualifications:** The full professor applicants are required to have a fully developed, funded research program and experience with graduate education.

### ASSISTANT PROFESSORS

We seek a CELL AND MOLECULAR BIOLOGIST (with an expertise in Molecular Genetics preferred) to contribute to our undergraduate program, our Master's programs and our doctoral programs.

We seek an IMMUNOLOGIST to contribute to our undergraduate program, our Master's programs and our doctoral programs.

We also invite applications for a faculty position in BIOINFORMATICS, PROTEOMICS, GENOMICS or other computational approaches to analyzing cellular systems. Computational Biology is a major research focus at UTSA, with support from the Cajal Neuroscience Research Center and participating faculty in the Divisions of Life Sciences and Computer Science.

The Division of Life Sciences also seeks to fill a faculty position in COMPUTATIONAL NEUROSCIENCE. Computational Neuroscience is a major research focus at UTSA, with support from the Cajal Neuroscience Research Center and participating faculty in the Divisions of Life Sciences and Computer Science.

**RESPONSIBILITIES** for all 5 positions will include teaching courses offered either at the UTSA downtown campus or the main campus, research, and administrative service. **REQUIRED QUALIFICATIONS:** Requirements for all 5 positions include a doctoral degree in the appropriate discipline and postdoctoral experience.

**PREFERRED QUALIFICATIONS:** Preferred qualifications include desire and ability to contribute to comprehensive teaching and research programs for undergraduate and graduate students. Set-up funds and laboratory space will be provided. Applicants must submit a letter of application specifying their research focus, a current CV, recent publications, a research statement, teaching interests and experience, and the names, postal addresses, e-mail addresses, and telephone numbers of three references. Applicants must indicate for which faculty position their application is made. Applications and all required materials must be received with a fax or postmark date no later than January 22, 2001 by: **Dr. Joe L. Martinez, Jr., Director, Division of Life Sciences, The University of Texas at San Antonio, 6900 North Loop 1604 West, San Antonio, TX 78249-0662, fax number (210) 458-5658.** *The University of Texas at San Antonio is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. Applicants who are not U.S. citizens must state their current visa and residency status.*



**PICTURE THIS IN SAN DIEGO. ★ ENGINEERING AND PHYSICAL SCIENCE LABORATORY ★** THE MISSION OF THE GROUP IS TO ACQUIRE AND DISSEMINATE QUANTITATIVE COMPUTER SYSTEMS KNOWLEDGE THROUGH EXPERIMENTAL AND ANALYTICAL PHYSICAL SCIENCE AND ENGINEERING METHODS. THIS NEWLY FORMED GROUP WILL ESTABLISH A STATE-OF-THE-ART PHYSICS AND ENGINEERING LAB IN SAN DIEGO, CA AND IS CURRENTLY SEEKING CANDIDATES FOR THE FOLLOWING POSITIONS: ★ CHIEF SCIENTIST ★ LEAD ENGINEER ★ LAB MANAGER ★ SIGNAL INTEGRITY ENGINEER ★ INSTRUMENTATION DEVELOPMENT ★ SEMICONDUCTOR DEVICE EXPERIMENTATION ★

FOR IMMEDIATE CONSIDERATION, PLEASE FORWARD YOUR RESUME, WITH SUBJECT HEADING ASM1027AB/DD, TO: SUN MICROSYSTEMS, INC., 9540 TOWNE CTR. DRIVE, SAN DIEGO, CA 92121; EMAIL TO RESUME15@SUN.COM (PLAIN TEXT ONLY, NO ATTACHMENTS); OR FAX TO 858-625-0650. SUN IS PROUD TO ENSURE THAT EQUAL TALENT WILL ALWAYS GET EQUAL OPPORTUNITY. THE BEST WAY TO BE CONSIDERED BY SUN IS TO BUILD YOUR RESUME ONLINE AT: ★ **WWW.SUNSANDIEGO.COM**



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## Bioinformatics

### Teaching Postdoctoral positions -- Permanent positions

The Center for Genomics, Proteomics and Bioinformatics, the FlyBase genome database, and the Department of Biology -- Indiana University, Bloomington -- have several job openings in bioinformatics and information technology. Candidates may also be eligible for joint appointments with the new School of Informatics. We are seeking individuals whose preparation and interests match *one or more* of the following descriptions: (a) teacher of bioinformatics at the graduate level; (b) software, database, and information systems engineer for bioinformatics; (c) UNIX system and network administrator.

These tasks need not describe distinct appointments; job descriptions can be tailored, within limits, to meet individual interests; for example, a postdoctoral appointee may teach 1/4 time while devoting the remaining 3/4 of his/her time to research activities or system administration. Teaching appointments will be considered postdoctoral and will be for a period of 2 - 3 years. Non-teaching appointments may be to permanent positions. Starting salaries will be negotiated depending on a candidate's skills and experience, but they will be highly competitive.

Successful candidates will join an active and growing research community in the life sciences and informatics -- a community in which bioinformatics research is expanding rapidly and one that provides outstanding opportunities for career development and advancement. For more information, see:

<http://cgpb.indiana.edu>

To apply, please submit a CV and a description of your background and interests, and arrange for 3 letters of recommendation to be sent directly by e-mail to: [bioinfo-jobs@bio.indiana.edu](mailto:bioinfo-jobs@bio.indiana.edu), or by regular mail to: Bioinformatics Searches -- Center for Genomics, Proteomics and Bioinformatics -- Jordan Hall 153 -- Indiana University -- 1001 E. 3<sup>rd</sup> St. -- Bloomington, IN 47405-3700.

Applications will be accepted until the positions are filled. Those received by February 15 will be assured full consideration.

*Indiana University is an affirmative action equal opportunity employer.*



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## **Scientists and Research Associates**

### **Biocatalysis, Bioprocessing, Fermentation, Plant Sciences**

#### **Molecular Microbiologists**

Metabolic engineering of central metabolism, secondary metabolism or protein production in *E. coli*, yeasts, *Pseudomonas*, *Bacillus*, *Rhodococcus*, cyanobacteria, *Streptomyces*, *Actinomycetes* or fungi.

#### **Enzymologists**

Low and high through-put expression and purification of enzymes and proteins for studies under non-natural conditions. Experienced enzymologists with exposure to biocatalysis and/or plant biochemical pathways are encouraged to apply.

#### **Fermentation Scientists**

Development of novel fermentation processes using organisms harboring shuffled genes. Experience with fermentation development and biocatalysis required, downstream processing and scale-up desired.

#### **Plant Biochemists/Molecular Biologists**

Expertise in plant biochemical pathways, especially in pathways related to herbicide metabolism, pathways related to nematode or insect resistance, and pathways related to carbohydrates and carbohydrate polymers.

#### **Process Engineers**

Downstream processing and separation science, including chromatography and immobilization, with working knowledge of fermentation and biocatalysis.

#### **Chemists**

Design new and improved chemo-enzymatic routes for the production of chemicals of commercial relevance. Extensive experience in organic chemistry required.

#### **Plant Transformation Scientists**

Improvement of methods for plant transformation, especially *Agrobacterium*, Viral vectors, Biolistics, Protoplasts.

#### **Assay Development**

Development of HTP screening methods for the analysis of improved microbial strains and enzymes.

#### **HTP Assay Implementation**

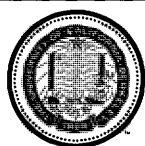
Implementation of HTP screening protocols, robotic automation and data analysis.

The successful candidates will have a BS, MS or Ph.D. in a relevant discipline and be innovative, motivated, creative and team-oriented individuals with proven scientific track records. For additional information, please see our website [www.maxygen.com](http://www.maxygen.com). Send resumes to Maxygen Human Resources, 515 Galveston Drive, Redwood City, CA 94063 or email to [jobs@maxygen.com](mailto:jobs@maxygen.com). Equal Opportunity Employer

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**Faculty Positions**  
**Biomolecular Imaging/BioNanotechnology**  
**Computational Biology/Bioinformatics**

The Department of Bioengineering at the University of California, Berkeley invites applications for two tenure-track positions at the assistant, associate or full professor level starting July 1, 2001. The new Department of Bioengineering on the Berkeley campus has a joint graduate program at Berkeley and the University of California, San Francisco (UCSF), and plans a joint, inter-campus department between the two UC campuses. The position also includes opportunities for involvement in relevant programs at the Lawrence Berkeley National Laboratory (LBNL). The juxtaposition of two major research universities and an outstanding national research institute provides an exceptional environment for both research and training in this rapidly growing field. The successful candidate will have a unique opportunity to provide intellectual and technological leadership in bioengineering and facilitate programmatic interactions across the University of California.

Applicants should have (or be about to receive) a doctoral degree or equivalent in a related field, and a research focus in one of the broad areas listed below:

**Biomolecular Imaging/Bio-Nanotech**

- Nano- and micro-scale biotechnology
- biophotonics
- molecular microscopy & bioengineering
- single molecule detection

**Computational Biology/Bioinformatics**

- comparative genomics
- biomolecular sequence or structure analysis
- biomolecular expression research and proteomics
- intracellular and intercellular modeling and network analysis
- computational cell and tissue biology
- application of mathematics, algorithms to biological problems

We seek individuals with demonstrated excellence in research, and the potential for excellence in teaching and leadership. Successful applicants will be expected to establish a pre-eminent research and educational program, and develop and teach undergraduate and graduate courses in their general area of specialty.

Applicants should send a complete curriculum vitae, a selection of publication reprints (five or less), a brief statement of future research plans and interests, and the names of at least three references to: **Chair of the Search Committee\*, Department of Bioengineering, 459 Evans Hall MC 1762, University of California, Berkeley, CA 94720-1762.** \*Please identify the position you are applying for. All applications must be received by February 1, 2001 for consideration in this year's recruitment cycle.

*The University of California is an equal opportunity employer, committed to excellence through diversity.*



**MAYO CLINIC**

**Vascular Medicine**

Postdoctoral position available to study inflammatory mechanisms in coronary artery disease. Candidates should have a M.D. or Ph.D. and experience in cellular or molecular immunology. Experience in cardiology or vascular medicine is desirable.

Applications, including curriculum vitae and names of three references, should be sent to:

**Cornelia M. Weyand, M.D.**  
**Departments of Immunology**  
**and Medicine**  
**Mayo Clinic**  
**200 First Street SW**  
**Rochester, MN 55905**

**e-mail: [weyand.cornelia@mayo.edu](mailto:weyand.cornelia@mayo.edu)**  
**See also: <http://www.mayo.edu/research/>**

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

**Chair of Pathology**  
**Dartmouth Medical School**  
**Dartmouth-Hitchcock**  
**Medical Center**

Dartmouth Medical School and the Dartmouth-Hitchcock Medical Center seek a Chair for the Department of Pathology. Essential qualifications include a strong record of clinical, research and administrative accomplishments as well as excellent organizational and interpersonal skills. The Dartmouth-Hitchcock Medical Center houses an NCI funded cancer center and strong clinical and basic science departments. The Chair of Pathology will work collaboratively with leadership of the clinical enterprise at Dartmouth-Hitchcock and its satellites and the Dean of Dartmouth Medical School to innovate and build on existing excellence in the teaching, research and clinical programs already in place within the department.

Candidates should be board certified in anatomic and/or clinical pathology.

Letters of application should include a curriculum vitae with a summary of relevant clinical, academic and administrative experiences and the names of at least three references.

Letters of application should be sent to **Peter K. Spiegel, M.D., Chair of the Search Committee for Pathology, c/o Ms. K. C. Waterman, Dartmouth Medical School Administration, One Rope Ferry Road, Hanover, New Hampshire 03755.** Review of applications will begin February 15, 2001.

*Dartmouth is an equal opportunity/affirmative action employer and strongly encourages applications from women and minority candidates.*

**UIC** University of Illinois  
at Chicago

**Head**  
**Biochemistry & Molecular**  
**Genetics**

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

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

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

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

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

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

**The Merck Research Laboratories (MRL) division of Merck & Co., Inc., a world leader in biomedical research, is recruiting a limited number of excellent scientists with proven expertise in animal physiology and pharmacology.**

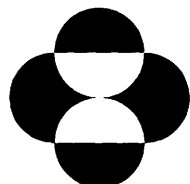
## **IN VIVO SPECIALISTS**

Successful candidates will participate in drug discovery programs at our research facilities in the U.S.A., Canada and the United Kingdom, working with renowned colleagues in other disciplines to explore the full range of therapeutic opportunities in central nervous system disorders, obesity, diabetes, cancer, infectious diseases, and diseases affecting cardiovascular, pulmonary, urogenital, ocular, endocrine and immune function, including transplantation. Our major international research sites possess state-of-the-art facilities, including remote acquisition of biological data through telemetry, non-invasive imaging using both NMR and PET, and the capability to generate and phenotypically characterize transgenic animals.

Merck Research Laboratories has achieved unparalleled success in the pharmaceutical industry as a result of its unwavering commitment to fundamental research. A listing of scientific publications from MRL through 1999 can be obtained at our Web site <http://www.merck.com/mrl/staffpub> or by writing to the address below.

Applicants may be drawn from disciplines that include, but are not limited to, Pharmacology, Physiology, Neurosciences, Psychology, and Veterinary Medicine, but must have significant expertise in in vivo techniques. Candidates preferably will have some postdoctoral experience, a superior record of accomplishment in biomedical research as demonstrated by a strong publication record, and excellent communication skills. We seek individuals who share our core research values in the development of innovative medicines for the treatment of disease.

Our salaries, benefits and growth potential are excellent. Applicants interested in working at any of our sites should send their CV (including names and addresses of three potential references), a statement describing their research interests, and their preference (if any) with respect to work location, to **Neyda Conklin, Ad # 120, Merck & Co., Inc., P.O. Box 2000, R80Y-135, Rahway, New Jersey 07065**, or by e-mail to [neyda\\_conklin@merck.com](mailto:neyda_conklin@merck.com) (please reference Ad # 120 in subject line). If applying by e-mail, please attach your resume, preferably as an MS Word document. Merck Research Laboratories is an equal opportunity employer.



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### Group Leader, Cell Biology

In this pivotal position within our focused Oncology research group, you will lead a research group responsible for developing & implementing new cell-based oncology models to profile drug candidates evolving from ongoing oncology drug discovery programs. In addition, you will coordinate collaborative studies with corporate partners in the oncology area, and play a key role in the evaluation of in-licensing candidates & the review of drug discovery efforts in the Axyx oncology program. A Ph.D. in Cell Biology, Cancer Biology or related biology discipline along with 7-10 years of post Ph.D. experience in the development & implementation of cellular oncology models are essential for success in this position. Experience leading or participating in oncology drug discovery programs and a significant publication record are required. (00-067-SCI)

### Scientist, Enzymology/HTS

In this key role, you will design/perform experiments to characterize Axyx' lead compounds in a variety of enzyme systems, and participate in assay development & the characterization of new targets. You will also represent the enzymology department on project teams to fulfill Axyx' commitment to drug discovery & development, provide scientific leadership to the enzymology RAs, and conduct research to identify new targets. Candidates must possess a Ph.D. in biochemistry or related field and 2+ years of postdoctoral experience with a proven publication record. A strong background in enzyme kinetics, assay development, receptor-ligand binding, or high throughput screening is desired. Experience in the biology, isolation, and characterization of proteases, polymerases, or kinases is helpful. Presentation & publication of results will be expected. (Job# 00-068-SCI)

Besides attractive salaries and outstanding benefits, we offer the opportunity to be part of a dynamic environment that fosters professional & personal growth. Please forward your resume/cv, referencing job#, to:

Axyx Pharmaceuticals  
HR Dept, Attn: (Job#)

180 Kimball Way

South San Francisco, CA 94080

Email: human\_resources@

axyspharm.com

We look forward to hearing from you. EOE



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## RESEARCH POSITION

A research associate position is immediately available at the American Health Foundation located in Valhalla in Westchester County, 25 miles north of New York City. Program focuses on signaling pathways, regulating phosphorylation and activation of p53 tumor suppressor protein. Candidates with a Ph.D. and/or MD degree in Biomedical Sciences and having strong background in cellular and molecular biology are encouraged to apply.

Salary is commensurate with experience but competitive.

Send curriculum vitae and names of 3 references to:

Dr. Wei Dai,  
American Health Foundation  
1 Dana Road,  
Valhalla, NY 10595  
or Email to  
wei\_dai\_ny@yahoo.com

EOE M/F/D/V

### Postdoctoral research in G protein structure and function

Postdoctoral research associate positions are available in the lab of Heidi Hamm at Vanderbilt University. A number of projects are available, including 1) site-directed Cys mutagenesis study of the mechanisms by which a receptor causes GDP release from G $\alpha$  subunits, 2) study of cellular signaling pathways downstream of different G $\alpha$  subunits using minigene expression vectors that uncouple G proteins from cognate receptors, 3) regulation of G $\alpha$  activated lifetime by regulation of the activity of GTPase activating proteins, 4) G protein  $\beta\gamma$  subunit regulation of the synaptic fusion machinery controlling synaptic transmission by novel effectors.

Applicants should have a recent PhD in biochemistry, molecular biology or biophysics with a good background in one or more of the following: 1) biochemistry or biology of receptors or signal transduction components, 2) molecular biology (gene isolation, cloning, overexpression, and mutagenesis) and protein purification and expression, 3) training in fluorescence spectroscopy or kinetic techniques. Reply to: Dr. Heidi Hamm, Chair, Department of Pharmacology, Vanderbilt University School of Medicine, 442 Robinson Research Building, Nashville, TN 37232-6600.

Candidates should send CV, bibliography, and a brief statement of your background and research, and the names and addresses of three references with the application.

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through technology and  
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bioinformatics)  
Analytical Chemistry  
Computational Chemistry  
Conventional Synthesis  
Chemistry  
cGMP Chemistry  
Business Development  
Crystallography  
Biochemistry  
Biocatalysis**

Interested candidates please visit our websites. Resumes may be submitted online or by fax (630) 783-4609.



## THE R.W. JOHNSON PHARMACEUTICAL RESEARCH INSTITUTE

The R.W. Johnson Pharmaceutical Research Institute (RWJPRI), located in Raritan, New Jersey, is a multi-site research and development company committed to scientific excellence and innovation. RWJPRI performs global research and development work for the pharmaceutical business units of Johnson & Johnson worldwide. RWJPRI conducts pharmaceutical research in therapeutic areas including anti-infectives, central nervous system, immunology/inflammation, dermatology and oncology. At RWJPRI we foster a rich, scientifically oriented culture that encourages all employees to reach their full potential.

### Postdoctoral Fellow — Exploratory Technology

We are seeking a recently graduated Ph.D. with training in the fields of signal transduction (biological or biophysical aspects), Mammalian Cell Biology, Microscopy or Biochemistry. The Exploratory Technology group identifies and develops cutting-edge Drug Discovery technology for the J & J companies. Current projects include an automated, image-based, cell-signaling high-throughput screening (HTS) system, several novel cell activation reporter technologies, and the application of Flow Cytometry and biophysical methodologies to Drug Discovery. The successful candidate will work with these or other new technologies. The incumbent will work closely with the internal therapeutic area and HTS teams, as well as with external collaborators from academia or technology companies. **Req Code: 003547SCI**

### Postdoctoral Fellow — Molecular Pharmacology

In this position, the candidate we seek will work in a new, exciting and rapidly evolving area of drug discovery using molecular biology approaches to investigate the mechanisms of glucocorticoid regulation of inflammatory signaling. To qualify, candidates must have a Ph.D. in Biology, Molecular Biology or a related discipline with a proficiency in RNA techniques including RNA isolation, and RT-PCR analysis. Prior experience in differential gene expression analysis, recombinant DNA technology and mammalian cell culture is essential. Experience in Bioinformatics, lipid signal transduction, enzymology and inflammatory cells/systems is desirable. Experience with nuclear receptor biology, yeast two-hybrid assays and GST pull-down experiments would also be an asset. Opportunities for collaboration within the company and with academic laboratories are available. **Req Code: 003576SCI**

For both Postdoc positions, it is essential that candidates be self-motivated, productive and have excellent computer and communication skills and the ability to work independently. If you wish to uncover answers to the basic questions of cell regulation, signaling and the mechanisms of disease, all while developing new pathways to novel medicines, we urge you to respond.

### Scientist/Senior

The Senior Scientist we're seeking will focus their attention on establishing in vivo disease models, biochemical analysis and pharmacological analysis. Responsibilities will involve identifying molecular targets for drug discovery research, as well as the development of HTS and secondary in vitro assays. The work will involve cloning, expression and purification of target proteins.

Ph.D. in Immunology, Pharmacology or Biochemistry with at least 3+ years of postdoctoral experience is required. Must have knowledge of signal transduction pathways in a variety of cell types. Must be able to communicate effectively, with an ability to supervise an Associate Scientist. **Req Code: 001952SCI**

### Associate Scientist/Senior

Working closely with a Senior Scientist, the Associate Scientist/Senior will have experience in enzymatic analysis, assay development and high throughput screening, as well as be involved in laboratory analysis such as ELISA. Work will also involve in vivo pharmacological evaluations and experience in molecular biological techniques is a plus.

A BS or MS in Immunology, Molecular Biology or Biochemistry with at least 3 - 5 years of demonstrated experience is required. **Req Code: 001954SCI**

As valued team members, you'll receive competitive compensation and great benefits including medical/dental, a 401(k), a pension plan and a comprehensive wellness program. Please apply directly on-line at our web site [www.jnj.com](http://www.jnj.com), or forward a scannable resume, noting operating company as The R.W. Johnson Pharmaceutical Research Institute, and the corresponding Req. Code, to: **Johnson & Johnson Recruiting, P.O. Box 16597, New Brunswick, NJ 08906-6597**. Please note resumes received electronically via [jnj.com](http://jnj.com) are reviewed within 24 hours. Mailed resumes are reviewed within 3 business days after receipt. We are an equal opportunity employer totally committed to diversity in the workplace.

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### Dean, College of Science

Wayne State University invites applications and nominations for the position of Dean of the College of Science. The College consists of 9 departments: Audiology and Speech-Language Pathology, Biological Sciences, Chemistry, Computer Science, Geology, Mathematics, Nutrition and Food Science, Physics and Psychology. There are over 200 tenured and tenure-track faculty members and more than 300 graduate teaching and research assistants in the College. The general-fund operating budget for FY 2001 is \$23,340,000; in addition the College received \$1,730,000 in gifts and approximately \$15,200,000 in grants, with the majority of these funds derived from NIH, NSF and other federal agencies. The University was ranked 45th in R&D expenditures (FY 1998) among public universities and 61st overall with \$148M in the most recent NSF ranking for research support, with several of the departments in the College of Science ranked between 40 and 70.

Located in the heart of the Cultural Center of a major industrial city, more than 40% of Wayne State's students are in graduate and professional programs. Over 4,100 students were enrolled in the College of Science in the Fall, 2000 semester. During the past year approximately 600 degrees were granted, including over 60 Ph.D.'s. The College and the University anticipate that research and graduate education will continue to be strengthened in the coming years with emphasis on the life sciences, physical sciences and engineering and with the development of interdisciplinary centers and institutes. With a statewide initiative to create a Life Sciences Corridor in southern Michigan, Wayne State has a tremendous opportunity to be on the forefront of life sciences research that will benefit all Science disciplines. The Dean will participate in the development of the core technologies for the Corridor program.

The Dean is the chief academic and administrative officer of the College and will be expected to provide leadership for College academic and research programs, including management of budgets, recruiting of faculty members and development of new or restructured programs bridging the various academic disciplines.

The successful candidate for Dean should be qualified for appointment as a tenured professor in one of the departments in the College and should have established a strong record of research, teaching, and academic administration.

Additional information about the College of Science and Wayne State University can be obtained at <http://www.science.wayne.edu> and <http://www.wayne.edu>.

Nominations and applications should be submitted to Dean Linda Moore, Chair, College of Science Dean Search Committee, Wayne State University, 5104 Gullen Mall, Detroit, MI 48202. Review of applications will start January 31, 2001 and continue until the position is filled. Wayne State University is a premier institution of higher education offering more than 350 academic programs through 14 schools and colleges to more than 31,000 students in metropolitan Detroit.

*Wayne State University is an equal opportunity/affirmative action institution.*

### FELLOWSHIPS

#### NIMH NATIONAL TRAINING PROGRAM IN COMPLEX SYSTEMS & BRAIN SCIENCES AT FLORIDA ATLANTIC UNIVERSITY PREDOCTORAL FELLOWSHIPS

Predocctoral fellowships are available, funded by NIMH Division of Basic Brain and Behavioral Sciences. Individuals with undergraduate degrees in any pertinent discipline are invited to apply for this 5-year training program leading to the Ph.D. degree in Complex Systems and Brain Sciences, and administered through the Center for Complex Systems and Brain Sciences. The aim of the Program is to couple theoretical concepts and methods for handling complex systems to specific experimental research in the cognitive and brain sciences.

Graduate training consists of a core curriculum in nonlinear dynamics, neuroscience, computational modeling and cognitive science. Research areas include sensorimotor coordination and learning, human brain imaging, including on-site functional magnetic resonance imaging, EEG, brainstem mechanisms of behavior, neural growth and development, ion channel dynamics, speech production and perception, neurolinguistics, visual perception, music perception and mathematics of complex systems.

Applicants should send a letter of interest, GRE scores, vitae and 3 letters of reference to: **Rhona Frankel, Center for Complex Systems and Brain Sciences, Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431. E-mail: [frankel@walt.ccs.fau.edu](mailto:frankel@walt.ccs.fau.edu).** Please visit our website at <http://www.ccs.fau.edu>.

## FACULTY POSITIONS

### Cardiovascular Molecular Biology and Cancer Molecular Biology

Applicants are sought for tenure track faculty positions in the Cardiovascular Research Institute, University of Medicine and Dentistry of New Jersey- New Jersey Medical School, Department of Medicine and Hackensack Medical Center.

Applicants should have a Ph.D. or M.D. with experience in molecular biology, should have demonstrated excellence in basic science research, and should be well published in leading scientific journals. Experience in signaling pathways, and transgenic animal models important.

Send resume including the names of at least 3 references and a description of research interests to:

**Stephen F. Vatner, M.D., Director  
Cardiovascular Research Institute  
UMDNJ, New Jersey Medical School  
MSB-1576  
185 South Orange Avenue  
Newark, NJ 07103**

**Materials should be received by January 5, 2001**



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### GLOBAL OPPORTUNITIES

## nature REVIEWS



Following the successful launch of the Nature Review journals including *Nature Reviews Genetics*, *Nature Reviews Molecular Cell Biology* and *Nature Reviews Neuroscience*, we now invite applications for the post of:

**Editor, *Nature Reviews Pharmaceutical Sciences***

To be launched in 2001 this journal will use cutting-edge technology and pioneering formats to create the definitive resource for scientists in search of an authoritative, comprehensive overview of their field.

The position of Editor is a senior appointment, reporting directly to the Publisher. The Editor will lead a skilled and dedicated team and will be responsible for developing the editorial content of the journal, in print and online. To meet these challenging tasks, the ideal candidate will have intellectual vision and strong leadership qualities. He or she will have a PhD in a relevant field, exceptional scientific judgement with a broad-based knowledge and understanding of their research community. The successful candidate must be dynamic and outgoing with outstanding interpersonal skills. Editorial experience would be a distinct advantage.

The position will be based in the Nature Publishing Group's London or New York offices and the terms and conditions are highly competitive, reflecting the critical importance and responsibilities of the role.

Applications and a CV, discussion of relevant experience, and an indication of specific ambitions for the journal should be sent to the publisher no later than January 8<sup>th</sup>. For more information see our websites <http://www.nature.com/reviews> and <http://www.nature.com/naturejobs>

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### ***Protein Engineering***

You will explore the features of peptide-to-protein and protein-to-protein recognition using phage display, site-directed mutagenesis, and protein-to-protein binding assays. You must have a PhD in Chemistry, Biochemistry, Biology or related field and experience in molecular biology, protein purification, or physical methods of protein characterization such as SPR (Biacore). **Job #: SCI2666**

### ***Research Technology***

In our Proteomics group, you'll be responsible for the development and application of methods for low-level phosphorylation site determination. You will be exposed to multiple projects involving proteomics and functional genomics in oncology and conduct experiments including metal ion affinity capture and mass spectrometry. These experiments must be extended to solve problems in signaling pathway analysis and study post-translational modifications at the proteome scale. You must have a strong background in protein chemistry and experience with HPLC and mass spectrometry. **Job #: SCI2123**

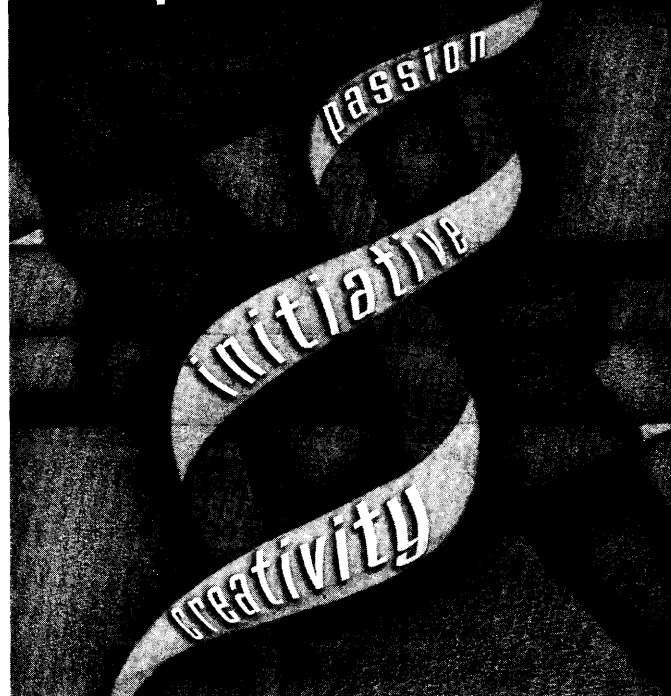
### ***Research Discovery***

Studying TNF family members and T cell co-stimulatory molecules for their role in immune system and disease process, you will identify novel molecules and their *in vitro* functional characterization by using molecular biology/immunologic techniques. In addition, you will use gene knockout/transgenic approaches and disease models to investigate the *in vivo* function of these molecules. **Job #: SCI2214**  
**Candidates for this position must respond via email with resume/CV to: Grewal.Iqbal@gene.com.**

### ***Research-Molecular Oncology***

You will study novel cytokines and cytokine receptors of therapeutic interest or signaling pathways implicated in cancer. You must have a background in molecular and cellular biology with a strong publication record. **Job #: SCI2036**

# Inquire Within



### ***Molecular Biology***

As a member of this team, you will use genomic strategies to study the function of novel secreted proteins and receptors of potential therapeutic value. You'll establish suitable models for the study of human disease, united with gene expression analysis using DNA microarrays. Experience in molecular biology and/or genomics and cellular biology is preferred. **Job #: SCI200**

### ***Cell Biology and Technology***

This position encompasses immune and non-immune aspects of the mechanisms of action of cancer immunotherapeutics with particular emphasis on the role of receptor aggregation on cell signaling and interaction with immune effectors. You must have a PhD in Cell Biology and a strong background in biochemistry. Experience with cell imaging (flow and/or image cytometry) is desired. **Job #: SCI2732**

*To apply, please email your resume, indicating appropriate Job #, to [genentechjobpost@webhirerc.com](mailto:genentechjobpost@webhirerc.com) (place Job Code in the subject field; ASCII files only). Or mail to Genentech, Inc., Attn: Human Resources, PO Box 1950, South San Francisco, CA 94083-1950, fax (650) 225-2371. Genentech is an Equal Opportunity Employer.*

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## POSITIONS OPEN

### CLINICIAN SCIENTIST/DIABETES Department of Medicine University of Toronto

The Division of Endocrinology at Mount Sinai Hospital/University Health Network is seeking a Clinician Scientist in the area of beta cell function. The ideal applicant will have appropriate basic training and/or experience in beta cell biology with a particular interest in apoptosis. As a Clinician Scientist, the successful applicant will be expected to devote the majority of his/her time to research endeavors. Academic rank, salary, and contractual arrangements will be commensurate with the experience and qualifications of the successful candidate.

Applications with résumé and names of three references should be sent to:

**Dr. B. Zinman**  
Head, Division of Endocrinology and Metabolism  
Mount Sinai Hospital  
600 University Avenue, Suite 782  
Toronto, Ontario  
M5G 1X5 Canada

Effective date of appointment: July 1, 2001. Closing date for receipt of applications: January 31, 2001.

*The University of Toronto is strongly committed to diversity within its community. The University especially welcomes applications from visible minority group members, women, aboriginal persons, persons with disabilities, and others who may contribute to further diversification of ideas. Canadian citizens and permanent residents will be considered first for the position.*

### ASSISTANT PROFESSOR BIOMEDICAL SCIENCES

We are anticipating an Assistant Professor of biomedical sciences tenure-track position in fall 2001 pending approval of the search and state funding. Ph.D. in a related field and postdoctoral training or equivalent experience in academic and/or other research institutions required. The following are also required: ability to utilize the existing facilities and equipment amassed for the study of marine natural products, especially those from marine microbes. Ability to teach subjects related to natural products in the pharmacy curriculum at both Pharm.D. and graduate levels. The Department of Biomedical Sciences deals with all aspects of biomedical sciences: pharmacology, toxicology, chemistry, etc., and URI has strong marine research components. Thus there are ample opportunities to carry out collaborative research. Review of applications will begin on February 1, 2001 and continue until the position is filled. Submit a résumé and cover letter to: **Dr. Yuzuru Shimizu, Search Committee Chair (Log Number SM161112), University of Rhode Island, P.O. Box G, Kingston, RI 02881.** *The University of Rhode Island is an Affirmative Action/Equal Employment Opportunity Employer and is strongly committed to achieving excellence through increased diversity of its faculty, staff, and students. Women, ethnic minorities, and individuals from underrepresented groups are encouraged to apply.*

**CELL BIOLOGIST/PHYSIOLOGIST:** Rank open; tenure track, beginning fall 2001. A Ph.D. and strong commitment to teaching required. Teaching assignments include cell physiology, anatomy and physiology, freshman biology, and courses in field of expertise. Typical load per semester consists of two laboratory-inclusive courses. Other expectations including advising, service, and development of a research program involving undergraduate and Master's-level graduate students. Review of applications begins February 1, 2001, and continues until the position is filled. Send application letter stating teaching and research interests; curriculum vitae, unofficial transcripts; and names, addresses, e-mail addresses, and telephone numbers of four references to: **David Saunders, Chair, Screening Committee, Biological Sciences, Box 4050, Emporia State University, Emporia, KS 66801.** Website: <http://biology.emporia.edu>. *An Affirmative Action/Equal Opportunity Employer Institution. Emporia State University encourages minorities and women to apply.*

## POSITIONS OPEN

### ASSOCIATE/ASSISTANT PROFESSOR Microbial Pathogenesis and/or Physiology

The Department of Microbiology, Biochemistry, and Immunology, Morehouse School of Medicine, is seeking applications from qualified Educators/Scientists with strong background in teaching pathogenic clinical microbiology to fill a full-time faculty position in the Department. All candidates should have adequate postdoctoral training and outstanding teaching skills. Candidates with strong potential for directing an independent and/or a collaborative research program in medical microbiology and obtaining extramural research support will be given priority. A competitive start-up package will be provided. The medical school provides ample opportunity for full and rewarding scholarly growth, including strong institutional support and state-of-the-art teaching and research facilities as well as a productive collaborative environment. See our website: [www.msm.edu](http://www.msm.edu) for more information. Submit applications by March 31, 2001 (via mail, e-mail, or FAX), stating the level of interest and including curriculum vitae, statement of research, future plans, and names of three references to: **Joseph U. Igietsme, Ph.D., Associate Professor, Department of Microbiology, Biochemistry, and Immunology, Morehouse School of Medicine, 720 Westview Drive, S.W., Atlanta, GA 30310.** E-mail: [igietsj@msm.edu](mailto:igietsj@msm.edu); Telephone: 404-752-1596; FAX: 404-752-1179.

*Morehouse School of Medicine is an Equal Opportunity Employer. Underepresented minorities and women are encouraged to apply.*

**BIOLOGY, ASSISTANT PROFESSOR.** The Department of Biology at Shippensburg University invites applications for a tenure-track Vertebrate Zoologist position starting August 2001. Responsibilities include teaching vertebrate zoology, evolution, comparative vertebrate anatomy, and introductory biology courses. Applicants with the interest and ability to instruct a course in mammalogy or ichthyology will be given preference. Scholarly activity will be required in the area of the candidate's specialty. The successful candidate will be expected to have a Doctorate completed by the application deadline, a strong commitment to undergraduate instruction, and a minimum of two years of teaching experience at the college level. A successful demonstration of teaching effectiveness and a scholarly seminar will be required as part of the on-campus interview. Applicants should send curriculum vitae; copies of transcripts (both graduate and undergraduate); a statement of teaching philosophy and research interests; and the names, addresses, and telephone numbers of three references to: **Zoologist Search Committee, Department of Biology, Shippensburg University, 1871 Old Main Drive, Shippensburg, PA 17257-2299.** Receipt deadline for application materials is January 30, 2001. *Shippensburg University is committed to Equal Employment Opportunity. Women, persons of color, veterans, and persons with disabilities are encouraged to apply.*

### ASSISTANT PROFESSOR DEVELOPMENTAL BIOLOGY

The Department of Biology at Lebanon Valley College of Pennsylvania invites applications for a tenure-track Assistant Professorship starting August 2001. The successful candidate will be expected to teach general biology for biology and biochemistry and molecular biology majors and developmental biology at a small liberal arts and sciences college. A Ph.D. is required, and demonstrated excellence in teaching and the ability to establish a research program involving undergraduates are expected. We seek a broadly trained Biologist with a strong commitment to a liberal arts undergraduate education. Submit letter of application; curriculum vitae; teaching philosophy; copies of undergraduate and graduate transcripts; and names, addresses, and telephone numbers of three references to: **Dr. Allan F. Wolfe, Biology Department, Lebanon Valley College, Annville, PA 17003-1400.** Application deadline: February 1, 2001. *An Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### DIRECTOR OREGON INSTITUTE OF MARINE BIOLOGY University of Oregon

The University of Oregon's Institute of Marine Biology (OIMB) and the Department of Biology seek applications and nominations for Director of OIMB. The joint administrative and academic appointment is based at OIMB and will be at the **TENURED SENIOR LEVEL** in the Department of Biology. The Director reports to the Vice Provost of Research. The new Director must have a broad background in marine biology, demonstrated excellence in research and teaching, international academic recognition, and appropriate administrative experience. The appointee will be expected to lead an academic program for OIMB that will take advantage of local and regional marine habitats and organisms and will be strongly involved in programmatic development including undergraduate and graduate recruitment and teaching. Applicants should have demonstrated strengths in obtaining extramural research funding and be ready to lead funding efforts that will benefit OIMB. The new Director will also foster research interactions across the Biology Department in the broad areas of behavioral biology, cell biology, and evolutionary biology.

OIMB is located on the mouth of Coos Bay in Charleston, Oregon, in the midst of a diverse array of marine and estuarine habitats. The Institute is an ideal site for research and teaching and is well equipped with modern research laboratories, library, classrooms, dining hall, and accommodations ([website: http://www.uoregon.edu/~oimb](http://www.uoregon.edu/~oimb)).

Applicants should submit curriculum vitae, statements of research, teaching and programmatic goals for the Institute, and three letters of recommendation to: **OIMB Director Search Committee, Department of Biology, University of Oregon, Eugene, OR 97403-1210.** The Search Committee will begin to review applications on February 20, 2001. The search will remain open until the position is filled.

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

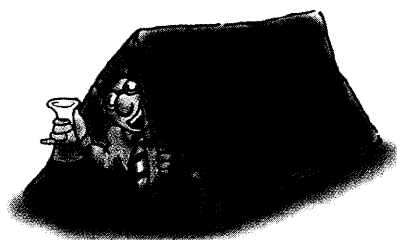
### ASSISTANT/ASSOCIATE PROFESSOR OF GEOGRAPHY Faculty of the Land Use and Environmental Change Institute University of Florida

The Department of Geography, University of Florida, invites applications for a new full-time, tenure-track Assistant or Associate Professor with research interests in land use/land cover change (LUCC) issues and the ability to teach undergraduate and graduate courses in GIS and remote sensing applications. The academic appointment will have a 30% time allocation to the newly established Land Use and Environmental Change Institute (LUECI). Applicants must have a Ph.D. in geography or related environmental science with expertise in the aspects of human-environment interactions that characterize the LUCC agenda: biophysical, social, and economic causes and consequences of land cover and land use change. The successful candidate will work with other members of LUECI to develop an externally funded and internationally recognized research program with an emphasis on the southeastern United States, Latin America, and other tropical and subtropical areas. The Department is especially strong in physical geography (climatology, hydrology, geomorphology, and environmental systems) and applicants whose interests address the interactions between the physical environment and human activities are urged to apply. Appointment will begin in August of 2001. Applicants should send a statement of research interests and plans, current curriculum vitae, and the names and e-mail addresses of three references to: **Dr. Michael W. Binford, Department of Geography, University of Florida, P.O. Box 117315, Jacksonville, FL 32211-7315.** E-mail applications to [mbinford@geog.ufl.edu](mailto:mbinford@geog.ufl.edu); documents embedded in the text or as attachments are encouraged.

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**Bioinformatics**  
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**HAP<sup>™</sup>Typing Facility**  
Job Code: SJMR-01

**Technical Associate**

**Intellectual Property**  
Job Code: SJSS-01

**Sr. Associate, Communications**

**Public Affairs**  
Job Code: SJPO-02

**Clinical Biostatisticians**

**Medical Affairs**  
Job Code: SJDW-01

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For more information on these positions, and a complete listing of our job opportunities, please visit our website at: [www.genaissance.com](http://www.genaissance.com) Or forward resume, indicating Job Code, to: Jennifer Barretta, Human Resources Generalist, Genaissance Pharmaceuticals, 5 Science Park, New Haven, CT 06511. Email communication highly preferred: [j.barretta@genaisance.com](mailto:j.barretta@genaisance.com) FAX #: (203) 562-9377. We are an equal opportunity employer.

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**Project Leader**

**Medical Affairs**  
Job Code: SJCD-01

**Pharmacy Benefit and  
Development Manager**

**Medical Affairs**  
Job Code: SJGR-01

**Director, Education  
and Publishing**

**Public Affairs**  
Job Code: SJPO-01

**Sr. Associate, Library  
and Research Services**

**Public Affairs**  
Job Code: SJPO-03

**Sr. Scientific Analyst,  
Gene Expression Analysis**

**Bioinformatics**  
Job Code: SJKN-01

## **Supervisory Veterinarian**

**Veterinary Medicine and Resources Branch  
National Institute of Mental Health  
National Institutes of Health  
Bethesda, MD**

The National Institute of Mental Health is seeking a Supervisory Veterinarian to be Chief, Veterinary Medicine and Resources Branch. Candidate must have a DVM/VMD degree and mastery of veterinary medical arts and sciences to organize and direct a comprehensive program of animal medicine, veterinary pathology, physiology, toxicology, parasitology, microbiology, and sciences, to maintain the health of different species of animals, including non-human primates, in a program of research on the brain and central nervous system, and to review knowledgeably research protocols to determine their suitability regarding the use of animals. Board certification by the American College of Laboratory Animal Medicine plus extensive post-graduate experience is highly desired. Must have the ability to supervise state-of-the-art critical care of post-surgical animals, including non-human primates with extensive brain surgery. Ability to analyze recent findings on the proper conduct of animal research. Please send resume and three reference letters by January 15, 2001, to: Chair, VMRB Search Committee, National Institute of Mental Health, Bldg. 10, Rm. 4N222, 9000 Rockville Pike, Bethesda, MD. 20892.

The National Institutes of Health is an Equal Opportunity Employer



## POSITIONS OPEN

The University of Southern Indiana invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in biology to begin August 2001. We are seeking a Developmental Biologist whose teaching responsibilities will include developmental biology and a combination of courses appropriate for the successful candidate's area of expertise. An individual who can bridge the gap between classical embryology and molecular levels of development is highly desirable. Excellence in undergraduate teaching supported by involvement of students in the candidate's professional/research activities is expected. Modest set-up funds will be available. A Ph.D. is preferred, but candidates who are A.B.D. will be considered.

The University is committed to excellence in teaching, scholarship and professional activity, and service to the University and community. Information about the Biology Department may be found at **website: <http://deepcnct.usi.edu/biology>**. Application deadline is December 15, 2000, but applications will be considered until the position is filled. Submit letter of application including statement of teaching philosophy; research goals; curriculum vitae; unofficial transcripts; and names, addresses, telephone numbers, and e-mail addresses of three professional references to: **Dr. Henri Roger Maurice, Chair, Department of Biology, University of Southern Indiana, 8600 University Boulevard, Evansville, IN 47712.**

*USI is an Affirmative Action/Equal Opportunity Employer.*

### ASSISTANT/ASSOCIATE PROFESSOR IN MOLECULAR AND CELLULAR IMMUNOLOGY

Successful applicant will initiate and maintain productive independent research programs, participate in team-taught courses for medical and graduate students, and direct training of doctoral and/or postdoctoral research trainees. **ASSISTANT PROFESSOR** candidates must demonstrate strong potential for success in these endeavors. **ASSOCIATE PROFESSOR** candidates also must have strong publication records and current extramural research funding. Department provides excellent laboratory space, strong start-up packages, competitive 12-month state salaries, and supportive environment with 14 full-time faculty and established doctoral program (**website: [www.ecu.edu/microbiology](http://www.ecu.edu/microbiology)**). Mail curriculum vitae, letter describing research and teaching goals, and list of three references to: **Immunology Search Committee, Dr. Paul V. Phibbs, Professor and Chair, Department of Microbiology and Immunology, The Brody School of Medicine, East Carolina University, Greenville, NC 27858-4354.**

*East Carolina University is an Equal Opportunity/Affirmative Action University. Accommodates individuals with disabilities. Applicants must comply with the Immigration Reform and Control Act.*

**FACULTY POSITIONS** at open rank. The program in molecular cardiology in the Department of Medicine, University of North Carolina at Chapel Hill has two openings for new **INVESTIGATORS** to join this newly created research initiative. Will consider individuals with M.D., M.D./Ph.D., or Ph.D. at any career level. Preferred applicants will have an active research program in the general areas of vascular biology and molecular cardiology. Areas of particular interest include but are not limited to myocyte and endothelial cell biology, angiogenesis and atherogenesis, signaling and gene regulation in cardiovascular diseases, and cardiovascular development and genetics. Newly recruited faculty will be provided with a start-up package and assistance with career development. Strong applicants will demonstrate an ability to garner extramural funding, and active research support is preferred but not required. Reply with curriculum vitae to: **W. Campbell Patterson, M.D., Division of Cardiology, Department of Medicine, University of North Carolina at Chapel Hill, CB Number 7075, Chapel Hill, NC 27599-7075.** *University of North Carolina at Chapel Hill is an Equal Opportunity/American With Disabilities Act Employer. Minorities and women are encouraged to identify themselves voluntarily.*

## POSITIONS OPEN

To facilitate the teaching and research programs in our newly expanded Tzu Chi University, we are inviting application in the following faculty positions:

### COLLEGE OF MEDICINE

Immunology: **CHAIRMAN** and all phases of immunology;

Biochemistry: protein chemistry (enzymology), carbohydrate chemistry (glycoprotein), and lipid metabolism;

Physiology: endocrine physiology;

Medical Technology: hematology and biotechnology;

Nursing: medical and surgical nursing; and

Oncology: medical oncology, radiation oncology, hematological oncology, and bone marrow transplantation.

### COLLEGE OF LIFE SCIENCE

**DEAN;**

Toxicology: **DIRECTOR OF INSTITUTE**, and neurotoxicology, molecular, and developmental toxicology;

Neuroscience: **DIRECTOR OF INSTITUTE**, cognitive or integrative neuroscience neurodegenerative diseases, and drug abuse;

Molecular and Cell Biology: developmental biology and cell biology; and

Human Genetics: all areas of human genetics.

Applicants should have M.D. and/or Ph.D. degree with postdoctoral experience. Candidates for Dean, Directors, and Chairman should possess organizational and interpersonal skills. All applicants should be conversant in Mandarin and English.

Successful candidates will be expected to establish an extramurally funded research program, participate in undergraduate teaching, and guide research for graduate students.

Applicants should send curriculum vitae with statement of research interests and arrange to have three letters of reference sent to:

**Chairman, Faculty Search Committee  
Tzu Chi University  
701, Section 3, Chung Yan Road  
Hualien, Taiwan  
FAX: 03-8562500  
E-mail: [cwlai@mail.tcu.edu.tw](mailto:cwlai@mail.tcu.edu.tw) or  
[sandy@mail.tcu.edu.tw](mailto:sandy@mail.tcu.edu.tw)**

The Biology Department at the State University of New York New Paltz invites applications for a tenure-track position starting August 2001. Applicants must have a Ph.D. in biology with expertise in physiology or a related area. The successful candidate is expected to teach general physiology and biological chemistry, develop graduate and undergraduate courses in her/his area of specialty, and establish an independent research program. A letter of application, curriculum vitae, representative publications, separate statements of research interest and teaching philosophy, and three letters of recommendation should be sent to: **Search Committee (Position Number F00-39), Department of Biology, SUNY New Paltz, 75 South Mannheim Boulevard, Suite 9, New Paltz, NY 12561-2443. Website: [www.newpaltz.edu/biology](http://www.newpaltz.edu/biology).** *SUNY New Paltz is an Affirmative Action/Equal Opportunity Employment/Americans With Disabilities Act Employer.*

### INVERTEBRATE BIOLOGY HAMILTON COLLEGE

The Biology Department at Hamilton College invites applications for a one-year position at the Visiting Assistant Professor level. The successful applicant will team teach in the introductory biology sequence, offer an intermediate course with laboratory in invertebrate biology and an advanced course of the candidate's choice that complements the current curriculum. A letter of application; curriculum vitae; statements of teaching philosophy and research interests; and three letters of reference should be sent by January 22, 2001, to: **Patrick D. Reynolds, IB Search, Biology Department, Hamilton College, 198 College Hill Road, Clinton, NY 13323.** *Hamilton College is an Affirmative Action/Equal Opportunity Employer and strongly encourages applications from minority group members and women.*

## POSITIONS OPEN

### FACULTY POSITION IN SEISMOLOGY Massachusetts Institute of Technology

The Department of Earth, Atmospheric, and Planetary Sciences at MIT invites qualified candidates to apply for a tenure-track faculty position in seismology. Candidates with exceptional qualifications may be considered for a position at a higher level.

We seek an outstanding Scientist with ability and potential for innovation and leadership in teaching and research in the field of seismology. The search is general, but areas of particular interest include the earthquake source, computational seismology, and innovative use of dense receiver arrays for probing structure and processes in Earth's interior. The Department encourages strong interactions with research programs covering the full spectrum of the Earth and planetary sciences, and we are especially interested in individuals whose research naturally connects to our efforts in global and exploration seismology, geodynamics, and geodesy.

Interested Scientists should send curriculum vitae, a one-page description of research plans, and the names of three potential professional references to: **Professor Ronald G. Prinn, Head, Attention Seismology Search, Department of Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology, 77 Massachusetts Avenue, 54-918, Cambridge, MA 02139-4307. E-mail: [rgp@mit.edu](mailto:rgp@mit.edu); FAX: 617-253-7651.** *MIT is an Equal Opportunity/Affirmative Action Employer. MIT is a nonsmoking environment.*

**MERCER UNIVERSITY:** The Program in Environmental Science announces a search to fill a tenure-track position at the **ASSISTANT PROFESSOR** level. An earned Doctorate with emphasis in geographic information systems (GIS), atmospheric science, or other field which complements the current faculty is required. Primary teaching duties will be in our undergraduate environmental science program, particularly the introductory course and upper-division courses in one's specialty. Development of a strong undergraduate research program is expected along with contributions to the general education and other interdisciplinary studies programs as needed. Faculty duties commence August 2001. For more information on Mercer University and the College of Liberal Arts, please access **website: <http://www.mercer.edu>**. Candidates with evidence of excellence in teaching and scholarly activity, commitment to environmental science education within a liberal arts context, and interest in interdisciplinary teaching should send a letter of application; current curriculum vitae; unofficial transcripts of both undergraduate and graduate work; and three confidential letters of reference before February 15, 2001, to: **Dr. R. J. Hargrove, Director, Environmental Science Program, College of Liberal Arts, Mercer University, 1400 Coleman Avenue, Macon, Georgia 31207.** *An Affirmative Action/Equal Opportunity Employer, Mercer strongly encourages applications from females and members of minority groups.*

The Department of Pharmacology and Toxicology at the Medical College of Virginia, Virginia Commonwealth University seeks a collateral **ASSISTANT PROFESSOR** to implement an independent, high-quality research program in the area of immunotoxicology and tumor immunology. The research will involve elucidating the mechanisms by which environmental contaminants cause immunotoxicity and immune evasion by tumors. The successful applicant must have a Ph.D. or equivalent in immunology, molecular biology, or a related field; two or more years of relevant postdoctoral research experience; and an outstanding record of research accomplishments. See **website: [www.vcu.edu/pharmtox/fac\\_bio/nagarkatti.htm](http://www.vcu.edu/pharmtox/fac_bio/nagarkatti.htm)**.

Applicants should submit curriculum vitae and three letters of reference by February 15, 2001, to: **Search Committee (F0716), Virginia Commonwealth University, P.O. Box 980613, Richmond, VA 23298-0613.** Position description available. *VCU is an Equal Opportunity/Affirmative Action Employer and encourages women, minorities, and persons with disabilities to apply.*

## Become the Future of New Medicine

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### Associate Scientist/Scientist

Working in our Protein Biochemistry department, you will focus on the purification and characterization of recombinant proteins from various expression systems. You will develop and optimize purification procedures to provide high quality proteins as part of an interdisciplinary team as well as employ state-of-the-art techniques to characterize proteins including HPLC, AKTA, SDS-PAGE, Western blot, LC-MS, MALDI, UV/Vis, fluorescence spectroscopy, microtiterplate reader, IEF, and dynamic light scattering. You will also analyze and interpret the resulting data, prepare research reports and contribute to patents and publishable manuscripts.

We require a BS/MS in Biochemistry, Chemistry, or a related field and 1 or more years of post-degree experience in protein purification and characterization using general protein biochemical techniques as described above. Experience in protein database searching and sequence analysis is helpful.

SmithKline Beecham is dedicated to an innovative workplace and supports you with career long opportunities and learning. We offer a competitive benefits and compensation package. We have also been named one of the 100 best companies for working mothers as listed by Working Mother magazine 2000. For confidential consideration, please forward your resume to: SmithKline Beecham, Ad Code: 2K1368, P.O. Box 1070, Philadelphia, PA 19106. Indicating Ad Code is essential. Principals only, no agencies, please.

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**St. Jude Children's  
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ALBAC - Danny Thomas, Founder

### Vice President - Clinical Trials (Job Code: SCI-5261VH)

Reporting directly to the CEO, this position will develop, organize, and provide oversight to the clinical trials infrastructure of the organization. Responsibilities include oversight of the Central Protocol & Data Monitoring Office, establishing and ensuring compliance with standards for good clinical practice (GCP), supporting development of INDs, developing institutional standards for data management and evaluating data management quality, and recruiting and training staff. Doctorate required, MD preferred. Must also possess academic background in medical research and a minimum five years in clinical trials administration in an academic setting. Experience required in: developing clinical trials; IND & FDA filing and reporting; automation of data management processes; and working knowledge of GCP guideline development.

### Cell Culture Specialist, Therapeutics Production & Quality Human Applications Lab (Job Code: SCI-3918VH)

Execute procedures related to culture and manipulation of primary human cells and established cell lines to produce cellular products intended for human administration. Activities include cell isolation, medium and long-term culture, characterization, establishment of patient-specific lines, cryopreservation, and management of stored cellular products. Additional activities include data management and assisting in documenting regulatory compliance. Laboratory processes follow cGMP guidelines. Bachelor's Degree in a relevant biological science required. Five years laboratory experience needed with several years recent experience in cell culture highly preferred. Demonstrated aptitude in cell culture essential. Experience in a cGMP environment would be helpful but not required. Licensure as a medical technologist in the state of Tennessee preferred but not required.

### Senior Research Technologist, Children's Infection Defense Center - Protein Production Center (Job Code: SCI-4885VH)

New facility with state-of-the-art equipment to provide purified proteins to St. Jude investigators for biochemical analysis and crystallization. Assist principal investigator with operation of equipment and analysis of data. Document and report procedures. Maintain efficient laboratory operation. Train other personnel as needed. Duties include bacterial fermentation and protein purification. Bachelor's Degree plus three years relevant work experience or Master's Degree in a relevant scientific field required. Background preferred in protein biochemistry or microbiology. Computer skills desirable.

### Vector Production Specialist Department of Cell & Gene Therapy (Job Code: SCI-3921VH)

Perform all procedures necessary to provide for all aspects of vector production and technology. Responsible for the specific conduct of specific projects and the collection and analysis of data. Bachelor's Degree in a related field required. Master's Degree preferred. Three years experience required in a research environment including experience with tissue culture. Some experience in a GMP-environment and work with viruses preferred.

We have the following additional opportunities available. Visit our website: [www.stjude.org/hr](http://www.stjude.org/hr) for more information.

**Director of Regulatory Affairs** - Therapeutics Production and Quality  
**Functional Genomics Analyst** - Hartwell Center for Bioinformatics & Biotechnology  
**Proteomics Analyst** - Hartwell Center for Bioinformatics & Biotechnology  
**Section Head** - Molecular Microbiology  
**Cell Culture Supervisor** - Human Applications Lab  
**Research Technologist** - Biochemistry, Virology and Genetics  
**Senior Research Technologist** - Developmental Neurobiology, Experimental Hematology, Molecular Therapeutics, Infectious Diseases, Pharmaceutical Sciences, Virology, Molecular Microbiology

St. Jude Children's Research Hospital offers an excellent salary and fringe benefits package and will cover the cost of interview travel as well as provide relocation assistance. For more information or to submit a resume, contact St. Jude Children's Research Hospital, Human Resources Department, 332 N. Lauderdale, Memphis, TN 38105. Fax: 901-495-3123. E-mail: [research.careers@stjude.org](mailto:research.careers@stjude.org)

[www.stjude.org/hr](http://www.stjude.org/hr)

*An equal opportunity employer.*

## POSITIONS OPEN

The Biomedical Engineering Department at the University of Michigan is soliciting applications for outstanding candidates for a full-time, **TENURE-TRACK POSITION** at all levels with research interests in bioMEMS. The College of Engineering (CoE) has an established program in neuroMEMS with an NIH/NCRR center and has recently established an NSF-ERC in the area of wireless integrated microsystems with a strong emphasis in biosystems. Current programs focus on MEMS technology. The new faculty position will be in the area of MEMS applications in biomedicine. We are particularly interested in applying MEMS technologies to biomedical problems at cellular and molecular scales. The environment for this work is outstanding in the CoE given current programs in the NSF-ERC and significant opportunities for collaboration with the Michigan Medical School.

The successful applicant for this position will have a primary appointment in the BME Department but is expected to have a significant secondary appointment in the EECS Department. In addition, strong interactions with Medical School departments will be encouraged. She/he will be actively involved with both the new undergraduate program and the existing graduate program in the BME Department, particularly in the areas of bioinstrumentation and biosensors. Applicants should send detailed curriculum vitae with the names of at least three references and a statement of research interests to: **Chair, BioMEMS Search Committee, Department of Biomedical Engineering, University of Michigan, 2350 Hayward, 3304 G. G. Brown, Ann Arbor, MI 48109-2125.** *The University of Michigan is an Equal Opportunity/Affirmative Action Employer.*

The School of Medicine at Stony Brook invites nominations and applications for the position of **CHAIR, DEPARTMENT OF PATHOLOGY**. The incumbent may also serve as the Pathologist-in-Chief at University Hospital, a 504-bed facility that contains over 60,000 square feet of laboratory space. Over 100 autopsies, 17,000 surgical, and 4.1 million laboratory determinations are performed annually.

The Department of Pathology has a reputation of excellence in teaching, research, and clinical care. Currently composed of 21 full-time faculty, it offers a full graduate track leading to the Ph.D. degree in cellular and molecular pathology and a fully accredited residency program in anatomic and clinical pathology. The School of Medicine has a major multidisciplinary initiative in cancer research under way in which the Department plays a critical role.

Candidates should have a record of achievement in mentoring of faculty and graduate students, conducting meritorious clinical or basic research, and overseeing academic and clinical programs. He/she should have administrative experience in budgetary and personnel matters. Applicants must hold an M.D./D.O. degree, be qualified for a senior faculty appointment, and be eligible for medical licensure in New York State.

Candidate screening will begin on or about December 15, 2000, and continue until filled. Nominations and applications that include curriculum vitae should be submitted to: **Dr. J. Gerald Quirk, Health Sciences Center, L9-020, Stony Brook, NY 11794-8091.**

**BIOLOGY EDUCATION.** Tenure-track position as **ASSISTANT/ASSOCIATE PROFESSOR** beginning fall 2001. Ph.D. with precollege science teaching experience required. Responsibilities include teaching (biology methods, introductory biology, and/or a course in area of specialization), supervision of student teacher training, research in basic biology or science education, and service to the university/community. Send letter of application; curriculum vitae; and the names, telephone numbers, and/or e-mail addresses of three references to: **Dr. Marian Wilson-Comer, Department of Biological Sciences, Chicago State University, 9501 South King Drive, Chicago, IL 60628.** Review of applications will begin February 1, 2001. *Chicago State University is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

The Biology Department at Swarthmore College invites applications for two different one-year faculty leave replacement positions at the **ASSISTANT PROFESSOR** level, each beginning September 2001. Applicants should have a Ph.D., teaching experience, and a strong commitment to undergraduate education. All biology courses at Swarthmore include laboratories. All application materials should be received by January 19, 2001.

**Animal physiology:** Teaching is expected to include comparative animal physiology, an advanced undergraduate seminar in animal physiology, and participation in the Department's team-taught introductory biology course. Interested persons should submit curriculum vitae, three letters of recommendation, and a statement of teaching and research interests to: **Dr. Sara Hiebert, Animal Physiology Search, Department of Biology, Swarthmore College, Swarthmore, PA 19081.**

**Invertebrate zoology:** Teaching is expected to include invertebrate biology, an advanced seminar in invertebrate zoology, and participation in the Department's team-taught introductory biology course. Interested persons should submit curriculum vitae, three letters of recommendation, and a statement of teaching and research interests to: **Dr. Rachel Ann Merz, Invertebrate Zoology Search, Department of Biology, Swarthmore College, Swarthmore, PA 19081.**

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

### CHAIR DEPARTMENT OF MEDICINE University of California, San Diego, School of Medicine

Applications from and nominations of highly qualified individuals for the position of Chair, Department of Medicine, at the University of California, San Diego, School of Medicine are now being solicited. The Search Committee is seeking candidates with distinguished backgrounds in academic medicine. Candidates are being sought with demonstrated ability, credentials, and achievements in academic administration, clinical care, and scholarly research who will sustain and enhance the academic and clinical excellence of the Department of Medicine. Applications will be reviewed beginning February 15, 2001, and will continue to be accepted until the position is filled. The academic appointment will be at the **PROFESSOR** level (with tenure) with salary commensurate to faculty rank and step based upon published University of California pay scales.

Send nominations and current curriculum vitae to: **Leon J. Thal, M.D., Professor and Chair of Neurosciences and Chair, Search Committee for Chair of Medicine, University of California, San Diego, School of Medicine, 9500 Gilman Drive, La Jolla, CA 92093-0624.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

**NIH-funded POSTDOCTORAL POSITION** is available. Our laboratory is interested in mechanisms of cornea inflammation and repair. This includes the study of signal transduction of paracrine growth factors during corneal wound healing. The significance of the protein kinases PI-3K, AKT, and PKC isoforms in the modulation of wound healing is investigated. Other projects investigate the role of lipid mediators and aim to define the functions of lipids such as prostaglandins and platelet-activating factor on gene transcription of enzymes that remodel the extracellular matrix. The action of lipids messengers in angiogenesis and apoptosis is also under study. There is an exceptional research infrastructure and environment very conducive to interactions with other research groups. Experience in biochemistry, molecular biology, and cell culture is required. Send curriculum vitae and names of three references to: **Dr. Haydee E. P. Bazan, Department of Ophthalmology and Neuroscience Center, 2020 Gravier Street, Suite D, New Orleans, LA 70112.** Telephone: 504-599-0877; FAX: 504-568-5801; e-mail: hbazan1@lsuhsc.edu. *Louisiana State University is an Equal Employment Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### TENURE-TRACK FACULTY POSITION MICROBIAL PATHOGENESIS Yale School of Medicine

The Section of Microbial Pathogenesis of the Yale School of Medicine is seeking applicants for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level. We are seeking applicants who are conducting research in any area of microbial pathogenesis. Individuals interested in the cell biology or immunobiology of viral pathogenesis are especially encouraged to apply. The position offers an attractive start-up package, excellent laboratory space, and a stimulating scientific research environment. Candidates should have a Ph.D. and/or M.D. degree; suitable postdoctoral research experience; a strong record of research accomplishments; a commitment to develop independent, innovative research programs; and an interest in graduate and medical education. Applicants should submit, by March 1, 2001, a curriculum vitae; a statement of current and future research interests; and arrange to have three letters of reference sent to: **Chair, Search Committee, Section of Microbial Pathogenesis, Yale School of Medicine, Boyer Center for Molecular Medicine, 295 Congress Avenue, P.O. Box 9812, New Haven, CT 06536.** *Yale University is an Equal Opportunity/Affirmative Action Employer. Qualified women and members of underrepresented minority groups are encouraged to apply.*

Faculty positions in biotechnology: As part of a major expansion, the College of Science and Technology at Temple University invites applications for **TENURE-TRACK FACULTY POSITIONS** in the area of interdisciplinary biotechnology. The faculty will be expected to conduct high-quality funded research and to contribute to our educational mission at both the undergraduate and graduate levels. The levels of academic appointments will be based on levels of research and teaching experience. Applicants for **ASSOCIATE PROFESSOR** or **PROFESSOR** must have an externally supported research program and a substantial publications record. Emphasis will be placed on interdisciplinary approaches to (1) genomics, proteomics, and bioinformatics; (2) signal transduction; (3) structural biology; and (4) gene regulation. Applications should include curriculum vitae, publication list, and statements of research interests and teaching experience. Please include the names, addresses, and telephone numbers of four references. Materials should be addressed to: **Dr. Ralph Hillman, Chair, Biotechnology Search Committee, College of Science and Technology, Room A409, Barton Hall, Temple University, Philadelphia, PA 19122.** Additional information can be obtained at website: [www.temple.edu/biology](http://www.temple.edu/biology). *Temple University is an Equal Opportunity/Affirmative Action Employer. Applications from women and members of underrepresented minorities are encouraged.*

### VERTEBRATE MOLECULAR BIOLOGIST WHEATON COLLEGE

The Biology Department of Wheaton College invites applicants for a one-year **ASSISTANT PROFESSORSHIP** in vertebrate molecular biology to teach chordate anatomy, evolution, and courses for majors and nonmajors in the candidate's area of interest. Ph.D. is required. Wheaton College is an independent, selective liberal arts college with 1,400 undergraduates. The successful candidate may apply for a tenure-track position that will become available the following year. This position will be seeking an individual with a strong commitment to teaching and involving undergraduates in research. Send cover letter, curriculum vitae, statement of teaching interests and research goals, and letters from three references by 31 January 2001 to: **Dr. Scott Shumway, Chair, Department of Biology, Wheaton College, Norton, MA 02766.** *Wheaton College seeks educational excellence through diversity and strongly encourages applications from women and men from minority groups.*

**National Institute of Allergy and Infectious Diseases**

**National Institutes of Health**

**Rocky Mountain Laboratories**

Postdoctoral positions are available to study the genetic and molecular processes underlying vector-borne transmission and pathogenicity of *Yersinia pestis*. Current projects emphasize the interaction of *Y. pestis* with its flea vector and aspects of microbial pathogenesis that relate to insect-to-mammal transmission and the vector-host interface. State-of-the-art genomics, proteomics, and sequencing facilities are available to help identify and characterize factors important to the pathogen-vector and pathogen-host interaction. The Rocky Mountain Laboratories have newly renovated BSL3 rooms, animal and insectary facilities, and excellent support services including confocal and electron microscopy. The RML campus supports many laboratories and investigators with expertise in a variety of human pathogens. Starting salary is \$29,000 to \$40,000, commensurate with experience. RML is located in the scenic Bitterroot valley of western Montana with easy access to some of the best hiking, skiing, kayaking, mountain biking, and trout fishing in North America. An M.D. or Ph.D. in Microbiology, Molecular Biology, or other appropriate discipline is required. Send CV, a letter expressing career goals and interests, and references to

**B. Joseph Hinnebusch**  
**Laboratory of Human Bacterial Pathogenesis**  
**NIH Rocky Mountain Laboratories**  
**903 South 4th Street, Hamilton, MT 59840**

or by e-mail to [jhinnebusch@niaid.nih.gov](mailto:jhinnebusch@niaid.nih.gov).

**Assistant, Associate or Full Professors**  
**UMDNJ - Robert Wood Johnson Medical School**

The Department of Pathology and Laboratory Medicine invites applications for full-time tenured-track/tenured faculty positions. The goal is to create an interactive group of independent investigators working in research areas broadly relating to extracellular matrix, membranes and their receptors, cytoskeleton and signaling and their relationships to neural, muscular, neoplastic and other disease processes. Disciplines of interest include molecular cell biology, biochemistry/biophysics, vertebrate/invertebrate developmental biology and genetics.

Primary responsibilities will be the development of strong individual research programs, with the expectation that faculty will contribute to the teaching of graduate and/or medical students. Start-up funds and dedicated laboratory research space will be provided. These laboratories are in the research division of the Department, located on the Piscataway Campus of the Robert Wood Johnson Medical School and Rutgers University.

Appointment requires a Ph.D. or M.D./Ph.D. degree, postdoctoral experience, and evidence of outstanding research potential, and, for the more senior applicants, evidence of outstanding academic achievement. Applicants should provide a curriculum vitae, brief description of research plans, reprints of recent papers, and the names of three or more individuals who would provide letters of recommendation to be sent to: **Peter D. Yurchenco, M.D., Ph. D., Chair, Search Committee** UMDNJ - Robert Wood Johnson Medical School, One Robert Wood Johnson Place - MEB 212 New Brunswick, NJ 08903

Visit the Department of Pathology & Laboratory Medicine's website at: <http://pleiad.umnj.edu>

UMDNJ is an Affirmative Action/Equal Opportunity Employer, m/f/d/v, and a member of the University Health System of New Jersey.



**Biology of Aging Program**  
**National Institute on Aging**

**POSITION AVAILABLE**

**Health Scientist Administrator, GS 13/14**  
**Cell Structure and Function Program**

The Biology of Aging Program, National Institute on Aging, National Institutes of Health, seeks to fill a vacancy for a Health Scientist Administrator. The Biology of Aging Program plans, implements, and supports fundamental molecular, cellular, genetic, and physiological research on the mechanisms of normal aging and age-related pathologies in humans and animal models. The Cell Structure and Function Program supports extramural research in several fundamental areas of aging and age-related pathologies; telomere biology and the role of telomere shortening and telomere-binding proteins in cell senescence and age-related genomic instability; identification of genes regulating cellular senescence (loss of proliferative capacity and other differentiated functions); regulation of apoptosis and its role in normal aging and age-related diseases; and age-related changes in cell structure and function. The ultimate goal is to develop molecular interventions to reduce and/or delay age-related degenerative processes in humans.

**Candidates** must have a Ph.D. or M.D. or equivalent, a minimum of two years of postdoctoral research training, and knowledge of research in one of the following areas: biochemistry, molecular biology, cell biology or genetics. Experience in gerontology is desirable but not necessary. U.S. citizenship is required.

**The Health Scientist Administrator** serves as Program Director for the Cell Structure and Function Program. The incumbent will be responsible for the development and administration of a scientific grant portfolio focused on understanding the cell biology of normal aging and the development of age-related pathologies and diseases. This is accomplished through review of the relevant scientific literature, review of NIA-supported research advances, organization of workshops and meetings to identify scientific areas in need of development or expansion, and the subsequent development of new scientific initiatives to expand knowledge of aging biology. The salary range is (GS-13) \$60,890 - \$79,155; or (GS-14) \$71,954 - \$93,537.

**(Announcement number NIA-00-960)**

**The application deadline is January 12, 2001.** For a complete vacancy announcement, see web site <http://careerhere.nih.gov/> -click on current vacancies, enter the Announcement Number, click on **find**. Review the requirements listed, send a resume and address the three areas (KSAs) on which each applicant will be evaluated. If you have questions after you read the announcement, contact Marian Patten, NIA Personnel Office, 301-496-5347.

*NIH is an Equal Opportunity Employer.*

## POSITIONS OPEN

### ASSISTANT PROFESSOR CONSERVATION BIOLOGIST/RIPARIAN ECOLOGIST

University of Illinois at Urbana-Champaign

The Department of Natural Resources and Environmental Sciences at the University of Illinois, Urbana-Champaign seeks a nine-month, tenure-track Assistant Professor in conservation biology/riparian ecology commencing August 21, 2001. Applicants can work at levels ranging from populations to landscapes. Special consideration will be given to individuals whose research bridges the terrestrial-aquatic interface (e.g., riparian zones, floodplains) and explores the impact of human disturbance thereon. Other areas of particular interest include aquatic, landscape, and restoration ecology. Teaching expectations include an undergraduate course in support of the NRES curriculum and a graduate course in the candidate's area of expertise. Applicants must hold a Ph.D. in conservation biology, riparian ecology, or aquatic ecology or a related natural resources field at the time of appointment; must demonstrate an aptitude for research and teaching in a challenging academic environment; and have clear potential to develop an extramurally funded research program. To ensure full consideration, applications must be received by January 22, 2001. Applicants should send a letter of application, statement of teaching and research interests, curriculum vitae, up to five reprints, and arrange to have three letters of recommendation sent to: Ms. Joyce Canaday, Department of NRES, University of Illinois, W-503 Turner Hall, 1102 South Goodwin, Urbana, IL 61801. Telephone: 217-333-2771; FAX: 217-244-3219. Additional information is available from website: <http://www.nres.uiuc.edu/> or e-mail: [pweather@uiuc.edu](mailto:pweather@uiuc.edu).

The University of Illinois is an Affirmative Action/Equal Opportunity Employer. Applications from women and minority candidates are encouraged.

### TENURE-TRACK POSITIONS DEPARTMENT OF PHARMACOLOGY

Up to three positions at any rank are available for energetic individuals taking a molecular, cellular, and/or genetics approach to modern biomedical research problems. Candidates should have strong evidence of sustained creativity and a temperament that facilitates collegial and collaborative interactions. Qualified Ph.D. or M.D. candidates with research interests in the areas of neuroscience, cell signaling, or regulation with a track record of research funding are especially encouraged to apply. The successful candidate will receive excellent laboratory space and handsome start-up funds in a setting that fosters his or her professional development. Our multidisciplinary graduate programs provide a large pool of graduate students, and successful candidates will also participate in medical student training. Emory University is located in a wooded, residential area on the outskirts of Atlanta and has undergone rapid growth in molecular and cellular biomedical research programs. Check us out at website: <http://www.pharm.emory.edu>. Applicants should send curriculum vitae, representative reprints, a summary of current research and future plans, and names of three or more references to: Raymond Dingleline, Chairman, Department of Pharmacology, Emory University School of Medicine, Atlanta, GA 30322. Equal Opportunity Employer.

A POSTDOCTORAL POSITION is available for studies on the role of phosphorylation of the RNA polymerase II CTD. This NIH-funded position is centered on genetic regulatory mechanisms that couple transcription to processing of the nascent transcript. The successful candidate will have a strong background in genetics and/or biochemistry. Evidence of experimental productivity and peer-reviewed publications is required. Send curriculum vitae and the names of three references to: Dr. Jeffry L. Corden, Department of Molecular Biology and Genetics, Johns Hopkins University School of Medicine, Baltimore, MD 21205. E-mail: [jcorden@jhmi.edu](mailto:jcorden@jhmi.edu).

## POSITIONS OPEN

Two RESEARCH ASSOCIATE positions in neuroscience are available to study neurotransmitters and signal transduction pathways in the suprachiasmatic nucleus (SCN) of mice (Dr. Bult) and neuroprotection associated with hibernation in ground squirrels (Dr. Drew). This NIH-funded research (NS41069-01: NINDS, NIMH, and NCRR) is an integral part of the Alaskan Basic Neuroscience Program at the University of Alaska Fairbanks and is in collaboration with Dr. Rae Silver at Columbia University and Dr. Mark Smith at Case Western Reserve University. Experience with one or more of the following is required: fetal SCN transplants, body temperature and activity telemetry, *in vivo* brain microdialysis and brain microinjections, HPLC, immunocytochemistry, microscopy, and *in vitro* SCN explant and brain slice culture. One to two years of postdoctoral experience preferred. Please submit a cover letter; curriculum vitae; the first page of the UAF Employment Application (website: [http://www.uaf.edu/uafhr/pdf\\_files/employment\\_app\\_0998.pdf](http://www.uaf.edu/uafhr/pdf_files/employment_app_0998.pdf)); and two letters of recommendation to be received on or before January 31, 2001, to: Institute of Arctic Biology, P.O. Box 757000, Irving I Building, Room 309, Fairbanks, AK 99775-7000, Attention: Marta Connor. Telephone: 907-474-6676; FAX: 907-474-7666. For more information, contact: Abel Bult, Ph.D.; Telephone: 907-474-7158; e-mail: [fab@uaf.edu](mailto:fab@uaf.edu); website: [http://mercury.bio.uaf.edu/~abult.faculty/bult\\_cv.html](http://mercury.bio.uaf.edu/~abult.faculty/bult_cv.html) or Kelly Drew, Ph.D.; Telephone: 907-474-7190; e-mail: [fkld@uaf.edu](mailto:fkld@uaf.edu). Positions with competitive salary and full benefits package are available immediately. The University of Alaska is an Affirmative Action Employer and Educational Institution.

The Department of Kinesiology, University of Illinois at Urbana-Champaign is seeking qualified applicants to fill a tenure-track ASSISTANT PROFESSOR position in the area of exercise physiology. Candidates will be expected to contribute to interdisciplinary research, seek extramural funding, and teach undergraduate and graduate classes. The candidates will be expected to complement departmental strengths in human lifespan physical activity (including aging), disability, disease, or rehabilitation. An academic background in kinesiology or related field and the ability to teach one or more courses in kinesiology and exercise physiology. A Doctorate is required. Teaching and postdoctoral experience are preferred. A letter of application; curriculum vitae; and three letters of recommendation should be submitted by February 1, 2001. The appointment will be effective August 21, 2001. Jeffrey A. Woods, Search Chair, Department of Kinesiology, University of Illinois at Urbana-Champaign, Urbana, IL 61801. Telephone: 217-244-8815; FAX: 217-244-7322; website: <http://www.kines.uiuc.edu>.

The University of Illinois is an Affirmative Action/Equal Opportunity Employer. All qualified applicants are encouraged to apply.

### MASSACHUSETTS GENERAL HOSPITAL AND HARVARD MEDICAL SCHOOL Transplantation Biology Research Center

POSTDOCTORAL POSITION available immediately in the Transplantation Biology Research Center at the Massachusetts General Hospital to study gene therapy approaches to tolerance induction for solid organ transplantation. Ph.D. or M.D./Ph.D. candidates with experience in molecular biology and cell biology, virology, and/or gene therapy are preferred. Please send curriculum vitae along with names of three references to: Dr. Christian LeGuern, MGH, TBRC, 13th Street, Building 149-9010, Boston, MA 02129. E-mail: [leguern@helix.mgh.harvard.edu](mailto:leguern@helix.mgh.harvard.edu); FAX: 617-726-4067.

Massachusetts General Hospital and Harvard Medical School are Affirmative Action/Equal Opportunity Employers.

## POSITIONS OPEN

### MARINE CONSERVATION ANALYST AND ADVOCATE Boston, Massachusetts

Environmental Defense employs a distinctive approach to environmental protection emphasizing a focus on scientific and economic disciplines and the use of market mechanisms, where applicable, to reach well-crafted, durable solutions. We currently seek a highly qualified Marine Conservation Analyst and Advocate.

Based in Boston, you will be part of a team of Scientists, Economists, and Lawyers addressing a host of marine environmental issues including nutrient and other forms of pollution, fisheries, protected areas, ecosystem protection, biodiversity, trade/market impact, certification/demand-side approaches, and pollution control. You will forge alliances among local communities, advocacy organizations, government agencies, legislators, media, and resource users to achieve marine conservation policy goals as well as interact with international, national, regional, and grassroots coalitions to create and promote program objectives.

This position requires a Master's or Ph.D. in environmental policy or environmental economics and a J.D. or equivalent work or academic experience. A strong background in resource economics, environmental policy, or environmental law is highly desirable, as is experience in environmental advocacy campaigns. Travel on the U.S. East Coast and possibly other domestic or international destinations may be required.

We offer an excellent salary commensurate with qualifications and experience as well as benefits in a supportive, commitment-driven environment. For immediate consideration, please send your cover letter, résumé, and salary requirements to:

Cheryl Pickard  
Recruiting Manager  
Environmental Defense  
1875 Connecticut Avenue, N.W.  
Washington, DC 20009  
FAX: 202-387-1030

Website: [www.environmentaldefense.org](http://www.environmentaldefense.org)  
For more information, please visit our Website.  
Equal Opportunity Employer/Affirmative Action.

### POSTDOCTORAL POSITIONS AVAILABLE

Strong experience in molecular biology and development and analysis of models with genetically manipulated mice. It will be important for the candidate to have the ability to develop expertise in the surgical techniques involved in the animal models. Ability to work independently and to develop and learn new techniques. Familiarity with rodent models of atherosclerosis, lung injury, and ischemia/reperfusion injury. Successful applicants will be in a strong position for future consideration for a faculty-level position. The salary range based on experience is \$28,000 to \$31,000 per year.

Please send curriculum vitae and the names and addresses of two academic references to: Ms. Claudia W. Edwards, College of Physicians and Surgeons, Columbia University, P and S 17-401, 630 West 168th Street, New York, NY 10032.

Columbia University is an Affirmative Action/Equal Opportunity Employer.

### POSTDOCTORAL FELLOWSHIP POSITION AVAILABLE

Immediate opening for a motivated individual to study the regulation of lymphocyte development, activation, and autoimmunity by intracellular adaptor signaling molecules. The focus of the laboratory is to understand the mechanisms by which the adaptor molecules influence intracellular signaling network as well as various intracellular signaling pathways required for lymphocyte lineage development and function. Please send curriculum vitae and three letters of reference to: Hua Gu, Ph.D., Laboratory of Immunology, NIAID/NIH, 12441 Parklawn Drive, Room 125, Rockville, MD 20852 U.S.A. E-mail: [hgu@niaid.nih.gov](mailto:hgu@niaid.nih.gov).

# HEALTH SCIENTIST ADMINISTRATOR

## (BIOLOGICAL SCIENCES) GS-601-12/13/14

The National Institutes of Health, National Institute of General Medical Sciences (NIGMS) is seeking two individuals who will be responsible for stimulating, planning, advising, directing, and evaluating program activities for a portfolio of research grants. In addition, the incumbents will provide scientific expertise in the areas of science listed below and will serve as a source of technical competence. The NIGMS offers 10 paid holidays a year, flexible work schedules, paid vacation and sick leave, family-friendly leave programs and a wonderful training budget for all employees. These positions are in the Federal Civil Service with a salary range of \$53,431 - \$97,610.

One vacancy is within the Pharmacological and Physiological Sciences Branch and the incumbent will provide expertise in the broad areas covering basic and clinical investigations in the pharmacological and/or physiological sciences. If you are interested in applying to this position, you must have a knowledge of pharmacological or physiological sciences with special expertise in one or more of the following areas: integrative pharmacology, signal transduction pathways, drug metabolism, drug delivery, pharmaceuticals/formulations, or biochemistry of therapeutic drug actions; the ability to work effectively as part of a team or organization; the ability to make critical judgments about the management and evaluation of biomedical research; and the ability to write about complex scientific topics for both scientific and non-scientific audiences. ANNOUNCEMENT #: NIGMS-00-0039; FAX ID #: 3623

The second vacancy is in the Minority Biomedical Research Support Branch and the incumbent will provide expertise in the areas of biology. If you are interested in applying to this position, you must have a knowledge of biology or chemistry with specific expertise in at least one of these areas: biochemistry, microbiology, organic chemistry, physiology, genetics, psychology or related areas, and of the experts in these areas of expertise; the ability to make critical judgments about the management and evaluation of scientific research at minority-serving institutions; the ability to write about complex scientific topics for a varied audience; and the ability to administer a research program(s) targeted to underrepresented minorities at minority-serving institutions. ANNOUNCEMENT #: NIGMS-00-0040; FAX ID #: 3624

For application package(s), qualification requirements and additional position information via the Internet, type the following URL: <http://careerhere.nih.gov> and click on "Current Vacancies" and enter the Announcement # listed above. To receive by FAX, call (301) 594-2953 or 1-800-728-JOBS and enter FAX ID # listed above.



For additional information contact:  
NIGMS Personnel Office  
45 Center Drive - MSC 6200  
Bethesda, MD 20892-6200  
(301) 594-2749 TDD (301) 402-6327

Closing date for both positions is  
**January 26, 2001**  
U.S. Citizenship is required

**NIH is an Equal Opportunity Employer**

### Sr. Research Associate/ Bioinformatics Project Leader, Cornell Theory Center

Project leader sought for new bioinformatics unit at the Cornell Theory Center, Cornell University's high-performance computing and interdisciplinary computational science center. This position is part of a new \$160 million initiative that includes Cornell's Ithaca campus and Weill Medical College, Memorial Sloan-Kettering Cancer Center, and The Rockefeller University. Responsibilities include design and maintenance of metasever and web computing tools that will serve the three institutions, and design and implementation of algorithmic approaches to computational genomics problems in consultation with biological researchers and computational scientists. Possible research areas include but are not limited to: a) gene annotation, b) statistical genomics, & c) micro array analysis. This position will provide direction to programmers, with an emphasis on developing web and net computing tools on desktop and high performance computers. **Req:** Ph.D. in computer science, mathematics or physical science, 1 yr Postdoctoral exp. Extensive Java/C++/C programming exp. is necessary. Working knowledge of concepts and terminology in applied molecular biology essential. Must be interested in working on multiple interdisciplinary research projects. Must have excellent oral & written communication skills.

Send Cover Letter and CV to: **Jamie Washburn, Cornell Theory Center, 514 Rhodes Hall, Ithaca NY 14853.**

**CORNELL**  
UNIVERSITY

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Equal Opportunity Employer and Educator*

<http://www.cornell.edu>

### SYMPOSIUM

## Reparative Medicine: Growing Tissues and Organs

June 25-26, 2001

**Natcher Conference Center  
National Institutes of Health  
Bethesda, Maryland**

The National Institutes of Health Bioengineering Consortium (BECN) announces its 2001 symposium. The scientific agenda will focus on multidisciplinary medical and biological research to develop tissues and organs for the treatment of human disease.

Keynote/plenary talks, posters, and working groups will provide a forum for dynamic communication and interaction. Updated information is available at: <http://www.masimax.com/becn/index.html>



For information, contact:  
Mark Brown, CMP  
Masimax Resources, Inc.  
Phone: 240-632-5618  
Fax: 240-632-0519  
E-mail: [mbrown@masimax.com](mailto:mbrown@masimax.com)



**MAYO CLINIC**

### Molecular Immunology

NIH supported postdoctoral positions available to study mechanisms of T-cell homeostasis in autoimmune diseases.

Candidates should have a Ph.D. or M.D. and have experience in cellular immunology and molecular biology. Depending on experience and record of scientific productivity, appointment as research associate possible.

Applications, including curriculum vitae and names of three references, should be sent to:

**Jörg J. Goronzy, M.D.**  
Departments of Immunology  
and Medicine  
Mayo Clinic  
200 First Street SW  
Rochester, MN 55905

e-mail: [goronzy.jorg@mayo.edu](mailto:goronzy.jorg@mayo.edu)  
See also: <http://www.mayo.edu/research/>

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



## POSITIONS OPEN

### BIOINFORMATICS SPECIALIST/ DATABASE MANAGER

A Specialist appointment as Database Manager for the applied bioinformatics computational core of the genomics technology analytical facility at Michigan State University. Will collaborate in the development and maintenance of nucleic acid databases and Web-based resources for the analysis of nucleic acid and protein sequences. Qualifications: Experience with database management, particularly Oracle, is essential. B.S., M.D., or Ph.D. in the biological or computer sciences with experience with computational analysis of nucleic acid or protein sequences and/or DNA arrays. Programming experience with UNIX, Perl, PL/SQL, SQL, and Java is highly desired. Also helpful would be experience with GCG sequence analysis programs, particularly Seqstore; analysis of DNA array data; and nucleic acid sequencing protocols and/or statistical analysis of DNA array data. Send letter of interest and curriculum vitae listing references to: **Dr. David DeWitt, Assistant Professor, Biochemical and Molecular Biology, 519A Biochemistry Building, Michigan State University, East Lansing, MI 48824. E-mail: dewitt@msu.edu.** Michigan State University is an Equal Opportunity/Affirmative Action Employer.

Ponce School of Medicine (PSM): new faculty positions. PSM is an LCME-accredited private institution in the historical Caribbean coastal city of Ponce, Puerto Rico. PSM is committed to development as a high-caliber academic institution in the Caribbean. We are seeking the following: (1) a Virologist or Immunologist in AIDS research that can collaborate with ongoing AIDS research efforts at the institution and (2) a Systems Neuroscientist with expertise in cellular techniques or functional brain imaging and interests in cognitive neuroscience and emotion. Rank of both positions is **ASSISTANT** or **ASSOCIATE PROFESSOR** depending upon qualifications. Evidence of extramural grant support (or potential to obtain support) is necessary. Both faculty positions carry a maximum teaching time responsibility of 25%. Verbal knowledge of Spanish is not necessary but would be helpful. Further information on PSM can be found at **website: <http://www.psm.edu>**. Please address your applications (curriculum vitae plus three reference letters) to: **Yasuhiro Yamamura, Ph.D. (AIDS) or Gregory J. Quirk, Ph.D. (Neuroscience), Ponce School of Medicine, P.O. Box 7004, Ponce, PR 00732. E-mail: yy11@coqui.net or gquirk@yahoo.com.**

**POSTDOCTORAL FELLOWSHIP** to study the regulation of contraction of smooth and striated muscles. The research has applications to hypertension, cardiomyopathy, and other disorders. Techniques used include fluorescence spectroscopy, rapid kinetic techniques, and molecular biology. Requirements: Ph.D. in biochemistry, biophysics, or related area. Send curriculum vitae and three letters of reference to: **Dr. Joseph M. Chalovich, Department of Biochemistry, The Brody School of Medicine, East Carolina University, 600 Moye Boulevard, Greenville, NC 27858-4354. E-mail: chalovichj@mail.ecu.edu; website: [www.med.ecu.edu/htdocs/biochem/bcdept.htm](http://www.med.ecu.edu/htdocs/biochem/bcdept.htm).** Official transcripts and proof of identity are required at time of employment. Applications will be accepted until the position is filled. *East Carolina University is an Equal Opportunity/Affirmative Action Employer and encourages applications from minorities and women and accommodates individuals with disabilities.*

Two **POSTDOCTORAL POSITIONS** are available for a collaboration between the groups of **Mitch Lewis** and **William F. DeGrado** at the University of Pennsylvania. One position involves solving the structure of natural ion channel proteins while the other involves designing and solving the structures of water-soluble proteins. In both cases, diffraction-quality crystals are available. Candidates with a Ph.D. and experience or a strong interest in X-ray crystallography are encouraged to apply to **e-mail: [lewis@mail.med.upenn.edu](mailto:lewis@mail.med.upenn.edu)**. *University of Pennsylvania is an Equal Opportunity Employer.*

## POSITIONS OPEN



Gillette Advanced Technology Center U.S. has immediate openings at our Needham facility just outside of Boston for **RESEARCH SCIENTISTS/ENGINEERS**. Opportunities require a Ph.D. and experience in academic or industrial research.

**Biochemical Pharmacologist:** cellular biochemistry and drug-enzyme interactions. Experience in skin and hair follicle biology highly desired.

**Physiologist:** cellular physiology and biochemistry. Experience in hormonal regulation of biological processes desirable.

**Medicinal Chemist:** formulation development in drug discovery process. Experience in topical formulations/pharmaceuticals highly desired.

**Colloid Chemist or Physical Pharmacist:** formulation experience and an understanding of surfactant aerosol chemistry and formulation scale-up.

**Chemical or polymer science, physics or math:** experience applying results from sensory science studies to consumer product development and exposure to clinical testing. Work closely with members of the dental clinic and sensory science group.

**Chemistry:** experience in polymer chemistry; five years of experience in dispersion and coating development including polymer selection and modification.

**Material science/inorganic chemistry:** experience in inorganic chemistry, synthetic methods, crystal structure, and basic electrochemistry. Characterization techniques and inorganic synthetic techniques a plus.

**Material sciences:** Experience in industrial environment, high-vacuum systems, and knowledge in thin films required.

**Sensory science:** Master's degree with five to eight years of experience in testing.

We offer an excellent total compensation package. Forward a résumé via **e-mail to: [linda\\_honneus@Gillette.com](mailto:linda_honneus@Gillette.com)** or send to: **Gillette Advanced Technologies, Attention: Linda Honneus, 37 A Street, Needham, MA 02492-9120.** *An Equal Opportunity Employer dedicated to workplace diversity.*

### FACULTY POSITION IN ANATOMY

The Department of Anatomy at Philadelphia College of Osteopathic Medicine invites applications for a tenure-track position at the level of **ASSISTANT PROFESSOR**. Candidates should demonstrate a sound knowledge of gross anatomy and histology and a strong commitment to teaching. Participation in medical and graduate school courses as well as other departmental programs will be required. Candidates are expected to establish and maintain an active research program in which graduate and medical students can participate. A Ph.D. is required along with prior teaching experience. Postdoctoral research is recommended. Salary and benefits are competitive and commensurate with experience. Please submit your curriculum vitae and three names and addresses of individuals for potential letters of reference to: **Tage N. Kvist, Ph.D., Department of Anatomy, Philadelphia College of Osteopathic Medicine, 4170 City Avenue, Philadelphia, PA 19131-1693. FAX: 215-871-6540.** Review of applications will begin on March 1, 2001, and remain open until the position is filled. Starting date can be as early as July 1, 2001, but not later than August 15, 2001. *Philadelphia College of Osteopathic Medicine is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### AVIAN ECOLOGIST

The Smithsonian Migratory Bird Center (SMBC) at the National Zoological Park seeks an **AVIAN ECOLOGIST** for a career-track position (GS-13). Located in Rock Creek Park in Washington, D.C., SMBC pursues research throughout the hemisphere focused on both basic and conservation-oriented research on birds that migrate between tropical and temperate America. The successful candidate is expected to develop a high-quality research program focused on the population biology or behavioral ecology of migratory birds. The candidate will be expected to focus much of the research on Latin America or the Caribbean. Additionally, SMBC seeks to integrate original research results with ongoing land use analysis and scientific outreach programs. For more information about SMBC, see **website: [www.si.edu/smbc](http://www.si.edu/smbc)**. Salary range: \$63,211 to \$82,180 per annum. For full details, please **Telephone: 202-287-3102** (for 24-hour/Touchtone Activated/Automated Request Center), press 9, and request vacancy announcement Number 005P-1368 and a full application package. Please include with your application a letter of inquiry, curriculum vitae, names and contact information for three references, and a statement of personal research interest. Applications must be received by 31 January 2001. *The Smithsonian Institution is an Equal Opportunity Employer.*

**ASSISTANT/ASSOCIATE ENTOMOLOGIST and ASSISTANT/ASSOCIATE CE SPECIALIST:** Integrated Pest Management Specialist of Perennial Crops, Department of Entomology, University of California, Riverside. Position available July 1, 2001: 11-month, 60% cooperative extension, 40% research located at Kearney Agricultural Center, Parlier, California. Appointment level and salary commensurate with experience. Ph.D. in entomology or related discipline with graduate training or postdoctoral experience in integrated pest management is required. The appointee will conduct basic and applied research focusing on reducing impact of insect pests of vineyard, deciduous tree fruit and nut crops, and extend research information to appropriate clientele. Applicants should send curriculum vitae; transcripts; statement of research interests; reprints and manuscripts in press; and names and addresses of five references by March 15, 2001, to: **Dr. John D. Pinto, Search Committee Chair, Department of Entomology, University of California, Riverside, CA 92521. E-mail: [john.pinto@ucr.edu](mailto:john.pinto@ucr.edu).** Information about the Entomology Department and an expanded position description can be found at **website: <http://www.entomology.ucr.edu>**.

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

### DEVELOPMENTAL BIOLOGIST

Tenure-track **ASSISTANT PROFESSOR** positions starting July 2001. Ph.D. required. Teaching and postdoctoral research experience desired. The successful candidate will participate in undergraduate courses in developmental biology, genetics, cellular biology, molecular techniques, and in Universitywide programs. The appointee will join a biology faculty deeply involved in creating a strong research-oriented program for undergraduate students and will contribute to this effort. Applications are especially encouraged from candidates whose research focuses on developmental biology using molecular techniques. Please forward a letter of application with curriculum vitae, transcripts, separate statements of teaching philosophy and research interests, representative publications, and arrange to have three letters of recommendation sent as quickly as possible to: **Dr. Barbara Hoopes, Chair of Search Committee, Department of Biology, Colgate University, 13 Oak Drive, Hamilton, NY 13346-1398.** Review of applications will begin January 22, 2001, and proceed until the position has been filled, but we hope to begin interviewing in early February. *Colgate University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.*

## POSITIONS IN CARDIOVASCULAR DISEASE GENETICS

The Department of Genetics at the Southwest Foundation for Biomedical Research is seeking to fill two positions. The first position is for a Molecular Geneticist (00-0255) to be appointed at the level of Associate Scientist or full Scientist, and the second position is for a Genetic Epidemiologist (00-0655) to be appointed at the level of Associate Scientist. The title structure at the Southwest Foundation parallels that at Universities, such that an individual appointed at the level of Associate Scientist should have experience and qualifications commensurate with appointment at the level of Associate Professor and an individual to be appointed as a Scientist should have qualifications commensurate with appointment as a full Professor. Both positions are for individuals who will develop extramurally funded programs to investigate the genetic determinants of cardiovascular disease and/or risk factors for cardiovascular disease.

The successful candidates must be willing to integrate into ongoing programs in the Department of Genetics. The Department of Genetics has 16 faculty-level scientists, many of whom collaborate in two Program Project grants concerning the genetics of atherosclerosis in human and nonhuman primate (*Papio hamadryas*) populations. The broad range of research programs present in the Department is described on the Department's web page at <http://www.sfbr.org/sfbr/departments/genetics/genetics/html>. Resources available at the Southwest Foundation include the large nonhuman primate colonies maintained by the Southwest Regional Primate Research Center and extensive laboratory and computer facilities. The successful candidates will have a Ph.D. in genetics, biology or related field.

Applicants may contact **Dr. Sarah Williams-Blangero**, (210-258-9577 or [sarah@darwin.sfbr.org](mailto:sarah@darwin.sfbr.org)), Chair of the Search Committee, if they have specific questions about the positions. Applicants should submit a curriculum vitae referring to the position of interest and names, addresses and telephone numbers of three references to the **Director of Human Resources, Southwest Foundation for Biomedical Research, P.O. Box 760549, San Antonio, Texas 78245-0549**.

EQUAL OPPORTUNITY EMPLOYER



## Dalhousie University Canada Research Chairs - Health Studies

Dalhousie University is seeking to appoint seven individuals to Canada Research Chairs faculty positions in Health Studies. The Canada Research Chairs program was established by the Government of Canada to foster world-class centres of research excellence in the global, knowledge-based economy. Tier I candidates must be acknowledged leaders in their research field and Tier II candidates must have potential to lead in their research field.

We have research chairs at both senior (Tier I) and junior (Tier II) levels for researchers having strong expertise and initiative within our identified strategic research areas: biomolecular structure and function and genetics (including microbial genomics, molecular and clinical genetics, neuroscience, cancer biology, cardiovascular disease, immunity and inflammation, biomaterials and biomedical engineering), clinical research and translation to care (including brain repair and pain, clinical trials and outcomes, E-health and informatics), health, environment and society (social and cultural determinants, health promotion and education) and inter disciplinary links (bioethics and health law).

Additional information on these areas of emphasis and the Dalhousie University strategic plan can be obtained on our website at [www.dal.ca/~research/index.html](http://www.dal.ca/~research/index.html).

Applications including CV, an outline of a five year research plan, and names and addresses of three references should be forwarded to: **Dr. Harold W. Cook, Associate Dean, Research and Planning, Faculty of Medicine, 5849 University Ave, Dalhousie University, Halifax, NS B3H 4H7, Canada**.

In accordance with Canadian Immigration requirements, this advertisement is initially directed to Canadian citizens and permanent residents of Canada. Dalhousie University is an Employment Equity/Affirmative Action employer. The university encourages applications from qualified Aboriginal people, persons with a disability, racially visible persons and women.

## GLOBAL OPPORTUNITIES

# South Australian Museum Adelaide University Positions in BIOLOGICAL SCIENCES and GEOLOGY



South Australian Museum

The South Australian Museum and Adelaide University are embarking on a unique collaborative relationship that will ensure the optimum utilisation of their joint collection, research and teaching resources.



ADELAIDE  
UNIVERSITY  
AUSTRALIA

The Museum and University have excellent programs in sulphide mineral research and molecular and evolutionary systematics, and are seeking to build on these areas of strength.

Four joint appointments at CURATOR/ LECTURER LEVEL are being created, but exceptional candidates may be considered for appointment at a higher level.

### Appointments are available in:-

**1) Mineralogy:** we seek individuals with expertise in modern diffraction techniques to investigate the crystal chemistry and stability of ore minerals. Will be expected to take active part in the Australian National Ore mineral collection and work in conjunction with the Australian mining industry.

**2) Marine biology:** systematist with expertise in modern techniques to investigate systematic/evolutionary problems in lower vertebrates, preferably annelids and/or crustacea, but researchers with established expertise in other areas are encouraged to apply. Will be expected to undertake research in association with SA Aquatic Sciences Centre and the aquaculture industry.

**3) Parasitology:** systematist with ability to capitalise on the Museum's National Helminth Collection. Expected to undertake applied research in conjunction with South Australian Research and Development Institute, medical researchers and industry and to develop fundamental research programs.

**4) Palaeontology and ancient DNA researcher with wide experience in one or more of the following fields:** Quaternary palaeo-ecology, dating techniques, systematics. Expected to develop a multi-disciplinary centre for palaeontological research in conjunction with Universities and Naracoorte World Heritage area.

Information about the Museum can be found at [www.samuseum.sa.gov.au](http://www.samuseum.sa.gov.au), and the University at [www.adelaide.edu.au](http://www.adelaide.edu.au). Positions are based primarily at the Museum, but are expected to undertake limited teaching and supervision of postgraduate students.

Applicants should submit a CV and three relevant publications and a brief statement of their research interests, along with the names of three referees to: Professor Tim Flannery, The Director, South Australian Museum, North Terrace, Adelaide SA 5000, Australia.

**Closing date for applications is Friday, 2nd February 2001.**



Government  
of South Australia





## POSITIONS OPEN

### PROTEOME INC.

Proteome is a rapidly growing company at the forefront of the bioinformatics revolution that provides comprehensively curated protein databases to the pharmaceutical industry and to academia. All positions have the opportunity to advance to positions of greater responsibility in an exciting work environment. **SCIENTIFIC CURATORS:** Multiple opportunities exist for Scientific Curators, who collect and integrate protein information for our multispecies databases. Candidates must have training in mammalian or model systems, a wide knowledge of cell biology or related fields, excellent writing skills, and a Ph.D. Curators may work full- or part-time, on-site or remotely, which offers maximum personal flexibility. **PROJECT SCIENTISTS/SCIENTIFIC PROGRAMMERS:** Multiple full-time opportunities exist on-site for Biological Scientists to become part of Proteome's research group. Candidates will develop new approaches and tools for gathering information for Proteome's integrated databases. Demonstrated ability to rapidly assimilate and apply new information is critical. Previous training in mammalian or model systems, excellent writing skills, or experience with a programming or scripting language (PERL, Python, Java, Javascript, C, C++, etc.) are preferred. Please send a cover letter and curriculum vitae in one form only to either: E-mail: [hr@proteome.com](mailto:hr@proteome.com) or to Human Resources, Proteome Inc., 100 Cummings Center, Suite 435M, Beverly, MA 01915. See website: <http://www.proteome.com> for more information. An Equal Opportunity Employer.

**MOLECULAR BIOLOGIST.** Job location: Davis, California. Duties: Develop and implement new molecular markers for breeding materials. Develop quality assurance and set goals for marker development. Analyze transgenic plants for inserted genes. Establish goals as well as strategies for marker development. Communicate and interact with external contacts for future projects. Implement RAPD analysis programs for variety identification. Develop and apply new molecular markers including RFLP, RAPD, SCAR, CAP, and AFLP for use in company's breeding programs. Manage and coordinate all projects and activities of molecular biology group. Supervise and advise on selecting strategies for marker development for marker-assisted selection and quality assurance. Implement molecular marker application for research and production departments. Use genetic mapping methods including QTL mapping. Perform protein analysis by Western blotting. Requires: M.S. in plant science, biology, or genetics plus two years of experience in the job offered or two years of experience as a Plant Geneticist. Experience, which may have been obtained concurrently, must include two years of experience applying the following molecular markers: RFLP, RAPD, SCAR, CAP, and AFLP; genetic mapping methods including QTL and Western blot analysis. Send résumé to: Patricia M. Silva, Harris Moran Seed Company, 555 Codoni, Modesto, CA 95357.

The Department of Anesthesia at the University of Pennsylvania seeks a qualified Basic Scientist to fill a tenure-track faculty position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. The successful candidate will have an M.D., Ph.D., or equivalent in chemistry or a related discipline and have a considerable published record of investigation with computational physical chemistry. In particular, experience with molecular dynamic simulations of biological macromolecules, such as proteins and lipid bilayers, is essential. The candidate will work within an interdisciplinary group investigating the molecular pharmacology of inhaled anesthetic action, and thus interpersonal skills and a collaborative nature are sought. Strong involvement in the Department's overall teaching and research missions is also sought. The candidate will be expected to already have or rapidly obtain independent extramural support. Interested candidates should e-mail their curriculum vitae to: Dr. Roderic G. Eckenhooff (e-mail: [reckenho@mail.med.upenn.edu](mailto:reckenho@mail.med.upenn.edu)). The University of Pennsylvania Health System is an Equal Opportunity Employer.

## POSITIONS OPEN



### SUPERVISORY PLANT PHYSIOLOGIST or SUPERVISORY RESEARCH CHEMIST or SUPERVISORY RESEARCH GENETICIST (Plants) (Interdisciplinary)

The U.S. Department of Agriculture, Agriculture Research Service, Wheat Genetics, Quality, Physiology, and Plant Disease Research Unit, Pullman, Washington (located on the campus of Washington State University), invites applications for the position of **RESEARCH LEADER**, GS-14/15 (\$70,457 to \$107,738 per annum; salary commensurate with experience). The Research Leader will lead a dynamic five-Scientist team to address issues important in the production of wheat germ plasma and varieties with improved yield, agronomic characteristics, pest and disease resistance, and milling and quality for end-product utilization. The Research Leader also conducts a personal research program. A Ph.D. or equivalent in plant physiology, biochemistry, molecular biology, cereal chemistry, plant genetics, or a closely related field is desired. This is a competitive, permanent appointment and U.S. citizenship is required. Applications must be marked ARS-X1W-1101. For specific application procedures and requirements, please call Ms. Pamela Dean; Telephone: 509-335-3238; e-mail: [pdemes@wsu.edu](mailto:pdemes@wsu.edu). You may obtain a copy of the vacancy announcement from Ms. Dean or from the ARS website: <http://www.ars.usda.gov/afm/hrd/resjobs/index.html> under announcement ARS-X1W-1101. Applications must be postmarked by February 26, 2001. ARS is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

### BIOLOGY FACULTY

The Department of Biology, University of Louisiana at Lafayette invites applications for a tenure-track faculty position in support of our doctoral program in environmental and evolutionary biology. We seek a Physiologist or Physiological Ecologist of nonmammalian vertebrates, aquatic or terrestrial. Preferred research areas include reproductive, nutritional, or metabolic physiology with possible expertise in biochemical adaptation or bioenergetics. The position is intended for an **ASSISTANT** or **ASSOCIATE PROFESSOR** and offers a competitive salary. The successful candidate is expected to have postdoctoral experience, develop an active research program, pursue extramural funding, and participate in undergraduate and graduate education. The Department of Biology (see website: <http://www.louisiana.edu/Departments/BIOL/>) consists of 30 faculty with research interests ranging from molecular to ecosystem studies and with 40 Doctoral and 30 Master's students. Departmental resources are supplemented by specialized equipment and laboratories provided in the University's Microscopy Center, Center for Advanced Computing Studies, Primate Research Center, Center for Environmental and Energy Studies, Laboratory for Crustacean Research, Center for Molecular Evolution, and Center for Ecology and Environmental Technology. Resources and adjunct faculty are also provided through affiliations with the Louisiana Universities Marine Consortium (LUMCON, which provides marine laboratory and vessel access), the USGS National Wetlands Research Center, and the NOAA Estuarine Habitats and Coastal Fisheries Research Center. Applicants should submit curriculum vitae; selected reprints; a concise statement of research goals; and names, addresses, e-mail addresses, and telephone numbers of at least three references. Review of applications will begin 1 February 2001 and continue until the positions are filled. Direct application to: Faculty Development Search Coordinator, Department of Biology, University of Louisiana at Lafayette, Lafayette, LA 70504-2451. Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

NASA Ames Research Center, Astrobiology and Space Research Directorate, Life Sciences Division is inviting letters of interest from highly motivated **RESEARCH SCIENTISTS** for future opportunities in the following areas:

### PROJECT SCIENTIST

Space Station Biological Research Project (SSBRP): a research facility being developed for the International Space Station to conduct nonhuman life science experiments. The Project Scientist has the responsibility for defining top-level science objectives and requirements, monitoring hardware and software development to ensure science research objectives can be met, and for interacting with the science and other external communities relative to science matters.

### CEVP COORDINATING SCIENTIST

Countermeasures Evaluation and Validation Program (CEVP): evaluates biomedical interventions designed to mitigate the effects of weightlessness on astronauts during extended stays in space. The CEVP Coordinating Scientist will be responsible for bed rest studies (an approach similar to clinical drug trials) conducted at Ames in conjunction with Johnson Space Center.

Research areas include (1) biomedical research that might lead to space flight countermeasures for the cardiovascular, musculoskeletal, or neurosensory systems and (2) nanotechnology research that focuses on cell and molecular biology with an emphasis on the cytoskeleton contributing to NASA's nanotechnology program.

For additional information, please contact: Dr. Emily Morey-Holton, Chief of the Gravitational Research Branch, M/S 239-11, NASA ARC, Moffett Field, CA 94035-1000. E-mail: [eholton@mail.arc.nasa.gov](mailto:eholton@mail.arc.nasa.gov). The Life Sciences Division website: <http://lifesci.arc.nasa.gov/>.

Interested candidates should send curriculum vitae, a one-to-two-page description of research qualifications and aspirations, and names of three references to: Camilla Perez, Mail Stop 241-9, NASA Ames Research Center, Moffett Field, CA 94035. E-mail: [cperez@mail.arc.nasa.gov](mailto:cperez@mail.arc.nasa.gov). Letters of interest must be received by February 1, 2001. All respondents will be notified of the formal application process. U.S. citizenship is required. NASA-Ames is an Equal Opportunity Employer.

### PLANT BIOLOGIST

The Department of Biological Sciences at Plattsburgh State University of New York invites applications for a tenure-track **ASSISTANT PROFESSOR** position in plant biology for the 2000-2001 academic year. The position is expected to begin on August 27, 2001.

Responsibilities include teaching a nonmajors course in general biology and developing plant biology courses to support departmental programs. Research collaboration opportunities exist with faculty in the Center for Earth and Environmental Science and the Lake Champlain Research Institute.

Qualifications: A Ph.D. degree with a broad background in organismal plant biology is required. The candidate must be committed to excellence in undergraduate teaching and should have a strong, field-based research program suitable for undergraduate participation.

Salary: \$38,000 to \$43,000 dependent upon qualifications and experience and with excellent benefits. Review of applications begins immediately and continues until the position is filled. Please submit résumé; statement of teaching philosophy; summary of potential research; and the names, addresses, and telephone numbers of three references to: Chair, Search Committee (PJ Number 2494-Science), c/o Human Resources, Plattsburgh State University of New York, 101 Broad Street, Plattsburgh, NY 12901-2681. FAX: 518-564-5060. Plattsburgh State University of New York is an Affirmative Action/Equal Opportunity Employer. Applications from women and minority candidates are especially welcomed.



## Medical Research Director

Melbourne, Australia



St Vincent's Institute of Medical Research, Melbourne, Australia is seeking to appoint an outstanding scientist to lead and further develop the Institute.

St Vincent's Institute of Medical Research is an independent medical research institute of international repute, affiliated with the University of Melbourne and one of its major Teaching Hospitals, St Vincent's Hospital. The Institute is one of the leaders of biomedical research funded by the National Health and Medical Research Council of Australia. It also attracts funding from a wide range of other Australian and international sources.

The successful appointee will succeed Professor T. J. Martin AO FAA FRS, who retires with effect from January 1, 2002.

The Institute intends to build on its strong reputation for research in protein structure and function which underpins its work in cell biology and consolidate its current strengths in the component groups in the Institute. These include protein structural biology with protein crystallography, protein kinases, bone cell biology, breast and prostate cancer biology, retrovirology and cardiovascular research. The Institute hosts the Biota Structure Biology Laboratory, the National Serology Reference Laboratory (NRL) and a unit of the Victorian Breast Cancer Research Consortium.

The Director is the chief executive officer and scientific leader of the Institute and is responsible to the Board of the Institute. A suitably qualified applicant will be eligible for a senior academic appointment in the University of Melbourne and if clinically qualified, he or she would be eligible for appointment as a Senior Specialist in one of the clinical units of St Vincent's Hospital.

The appointment offers an opportunity for an outstanding individual with research leadership and management skills to head one of Australia's leading medical research institutes located within a major Teaching Hospital and Research Campus.

An attractive remuneration package commensurate with the skills and experience of the successful candidate will be negotiated.

The Chairman of the Board welcomes enquiries about the position or expressions of interest from potential applicants. Potential applicants are encouraged to seek further information, which can be forwarded on request.

Written applications, including a full curriculum vitae and the names and addresses of three professional referees, should be marked "Private and Confidential", and forwarded no later than January 31st 2001 to: Chairman of the Board, St Vincent's Institute of Medical Research, PO Box 367, Collins Street West, Melbourne, Vic 8007, Australia. Telephone: (613) 96297 203; Facsimile: (613) 96296 040; E mail: [exsearch@ozemail.com.au](mailto:exsearch@ozemail.com.au)

TMP03/90

## EUROPEAN OPPORTUNITIES



**The Interuniversity  
Cardiology  
Institute  
of the  
Netherlands**

The **Interuniversity Cardiology Institute of the Netherlands (ICIN)** is an institute of the Royal Netherlands Academy of Arts and Sciences. We are an alliance of cardiology departments from eight university hospitals in the Netherlands. Our mission is to stimulate, co-ordinate and perform clinical and basic research in the field of cardiovascular diseases.

All ICIN research projects are of significance for clinical cardiology and generally last between 3 and 5 years.

Personnel are recruited from universities and pre-universities in the Netherlands and abroad.

We are currently looking for **research personnel** ranging from post-docs and research fellows in **pharmacology, molecular biology, molecular genetics, physiology or related fields**. We are also looking for **ICT-trained staff**.

For more information on these jobs, candidates are invited to visit our website at:

**[www.icin.knaw.nl](http://www.icin.knaw.nl)**

## ANNOUNCEMENTS



### SCIENCE-RESEARCH SCHOLARSHIP AVAILABLE

**Opportunities for Outstanding Students**

#### NATIONAL INSTITUTES OF HEALTH Undergraduate Scholarship Program

The **UGSP** is sponsored by the National Institutes of Health (NIH), the Federal Government's premier biomedical research and research training agency. NIH offers scholarships to qualified students who are committed to a career in biomedical research.

Scholarships of up to \$20,000 per year support tuition, educational, and qualified living expenses (room, board, transportation) while students pursue an undergraduate degree.

For each award year, scholars work 10 weeks with salary/benefits in our research laboratories in Bethesda, Maryland. They are assigned mentors, participate in developmental and science enrichment seminars, and are provided with housing and transportation. After graduation, they work 1 year of full-time employment at NIH for each year of scholarship award.

#### THIS IS A SPECIAL OPPORTUNITY FOR SPECIAL STUDENTS!

##### Advise students to apply if they:

- Are committed to a career in biomedical research;
- Are from a disadvantaged background;
- Have a GPA of at least 3.5 or are in the top 5 percent of their class;
- Are a U.S. citizen, national, or permanent resident;
- Are enrolled or accepted for enrollment as a full-time student at a qualified accredited institution.

##### For more information, contact the UGSP at:

<http://ugsp.info.nih.gov> ■ E-mail: [ugsp@nih.gov](mailto:ugsp@nih.gov)  
Phone: 1-800-528-7689 ■ TTY: 1-888-352-3001

**Qualified  
undergraduates  
can train and be  
mentored at the  
cutting edge of  
biomedical  
research while  
receiving  
scholarship  
support.**

*NIH is  
dedicated to  
building a  
diverse  
community in  
its training and  
employment  
programs*

## POSITIONS OPEN

### INVERTEBRATE ZOOLOGIST University of Arkansas at Little Rock

The Department of Biology at the University of Arkansas at Little Rock invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level to begin fall 2001. We seek an individual who studies species complexes or host/parasite systems at the organismal level or beyond. The successful candidate will join an active and growing department and is expected to develop a vigorous, externally funded research program involving graduate and undergraduate students. Teaching responsibilities include courses in organismal invertebrate zoology such as entomology, nematology, or parasitology; graduate courses in the candidate's area of expertise; and participation in the Department's core curriculum, which may include genetics and introductory biology. Competitive applicants will have a Ph.D. degree, a strong record of research productivity, and will complement departmental strengths.

The University of Arkansas at Little Rock ([website: www.ualr.edu](http://www.ualr.edu)) is a metropolitan, state-supported university with a current enrollment of over 11,000 students. Housed within the College of Science and Mathematics, the Department of Biology consists of 16 full-time faculty and over 350 majors in its various degree programs. The Department offers B.S. degrees in biology with three concentrations (general biology, fisheries and wildlife management, and molecular and biotechnology) and environmental health sciences (four options). The Department recently initiated an M.S. program in biology and options exist supervising Ph.D. students. Review of applications will begin January 20, 2001, and continue until the position is filled. Send letter of application, curriculum vitae, brief statements of teaching and research interests, copies of graduate and undergraduate transcripts, and three letters of reference to: **Dr. R. S. Sikes, Department of Biology, University of Arkansas-Little Rock, 2801 South University Avenue, Little Rock, AR 72204.** *The University of Arkansas-Little Rock is an Equal Opportunity/Affirmative Action Employer and actively seeks the candidacy of minorities, women, Vietnam-era veterans, and persons with disabilities. Under Arkansas law, all applications are subject to disclosure. Persons hired must have proof of legal authority to work in the United States.*

### ELECTROPHYSIOLOGIST

We are currently seeking an individual to join our team to assume responsibility for the development and running of electrophysiology assays. This individual will be responsible for both the generation and control of data for client studies as well as development of new assays. Currently, our efforts are strongly focused on cardiac ion channels that represent significant drug development liabilities, but future work may also include development of assays for various neuronal ion channels.

Among the requirements are a Ph.D. in biophysics or a related field and at least two years of relevant postdoctoral experience. Experience in whole cell voltage clamp technique in both heterologous expression systems and native cells is also required. Special consideration will be given to candidates with good experience in various animal cardiac models including use of rabbit purkinje fibers. Excellent organizational and communication skills as well as exceptional analytical skills, a high degree of self-motivation, and ability to work as a proactive team member are required.

Cerep, Inc. offers a competitive total compensation package as well as an environment conducive to personal and professional growth. Please send your confidential curriculum vitae with salary requirements to [e-mail: n.legresley@cerep.com](mailto:n.legresley@cerep.com). To learn more about Cerep, please visit our [website: http://www.cerep.com](http://www.cerep.com).

*Cerep is an Equal Opportunity Employer.*

Cardiovascular Bioelectricity Laboratory, Harvard Medical School: The Laboratory seeks an **INSTRUCTOR** in cardiac cellular electrophysiology and **POSTDOCTORAL FELLOWS** in molecular cardiology. See [website: http://bioelectricity-lab.bwh.harvard.edu](http://bioelectricity-lab.bwh.harvard.edu). Please send curriculum vitae to: Gideon Koren, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. E-mail: [koren@calvin.bwh.harvard.edu](mailto:koren@calvin.bwh.harvard.edu).

## POSITIONS OPEN



### RESEARCH ECOLOGIST

USGS, Western Ecological Research Center ([website: http://www.werc.usgs.gov/](http://www.werc.usgs.gov/)), seeks Research Ecologist (\$56,411 to \$87,212) as Principal Investigator, Golden Gate Field Station, Sausalito, California. The position is a term appointment with potential renewal up to four years. Duties include research, program planning, development, and coordination of a project on the ecology of mammalian carnivores in urbanizing landscapes with a focus on coyotes. See [website: www.usajobs.opm.gov](http://www.usajobs.opm.gov). For more information, **Telephone: 650-329-4109**. Ph.D. or equivalent and must be a U.S. citizen. Apply to: **USGS Human Resources, 345 Middlefield Road, MS-613, Menlo Park, CA 94025, Attention: Cathy Shahan.** Postmarked no later than January 2, 2001. *Department of the Interior is an Equal Opportunity Employer.*

### CLINICAL RESEARCH NURSE (RESEARCH ASSISTANT)

Medical College of Virginia  
Virginia Commonwealth University

MCV/VCU, Department of Surgery, Division of Neurosurgery is seeking candidates for the position of **CLINICAL RESEARCH NURSE** at the faculty rank of **RESEARCH ASSISTANT**. This position is responsible to the American Brain Injury Consortium (ABIC) for managing data processing and member recruitment for traumatic injury drug trials. Candidate should have previous neurosurgical ICU experience and a current RN license with the State of Virginia. Must have superior PC skills and experience working with VAX-based data programs. Candidate should have superior management and communication skills and be able to work independently. Must be available for travel. Experience working in a culturally diverse setting is highly preferred.

Please forward curriculum vitae to: **Thomas H. Casey, Ph.D., FACME, Administrator, Department of Surgery, P.O. Box 980629, Richmond, VA 23298-0629. Telephone: 804-828-9665; FAX: 804-828-8360** *MCV/VCU is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disabilities are encouraged to apply.*

**STAFF ASSOCIATE**, Department of Ophthalmology, Columbia University. A position is available immediately to study properties of extraocular muscles. Research is directed at determining normal and abnormal characteristics of extraocular muscle and the etiology of eye movement disorders. Candidates are expected to be familiar with small animal surgery, especially as related to extraocular muscles; electrophysiological recording techniques including tension and action potential recording; and immunohistochemical techniques related to muscle fiber type determination. Familiarization with statistical methods of data analysis is also required. Minimum qualifications include a Ph.D. and/or M.D. degree or a Bachelor's degree and at least four years of experience with the above techniques. Candidates should send curriculum vitae and the names of three references to: **Jan P. Koniarck, Ph.D., Department of Ophthalmology, Eye Research Division, Columbia University, 630 West 168th Street, New York, NY 10032. FAX: 212-305-3173; e-mail: jk24@columbia.edu.** *Columbia University takes Affirmative Action to ensure Equal Employment Opportunity.*

**ASSISTANT PROFESSOR**, genetics, tenure-track, begins September 1, 2001. Requires Doctoral degree. Teach courses for biology majors (genetics), nonmajor service courses, and develop advanced courses in area of expertise; supervise undergraduate research and advise undergraduates. Application review begins immediately and continues until filled. Send résumé, statement of teaching philosophy, and three letters of reference to: **Human Resources Department, Fitchburg State College, 160 Pearl Street, Fitchburg, MA 01420.** *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### TENURE-TRACK ASSISTANT PROFESSOR

The Department of Biology at West Virginia University invites applications for a tenure-track Assistant Professor position in molecular biology to begin August 16, 2001. This opening is part of a departmental expansion coinciding with movement into a new Life Science building (currently under construction). The successful candidate will be expected to establish an externally funded research program and publish in peer-reviewed journals. Teaching responsibilities will include a molecular biology course for students in the recently established Forensic Identification program ([website: http://www.wvu.edu/~forensic/](http://www.wvu.edu/~forensic/)) as well as an undergraduate/graduate course in the individual's specialty. WVU is a comprehensive, research extensive university including Arts and Sciences, Medical, Dental, Agricultural, Engineering, and Law schools. WVU is located in Morgantown, West Virginia, a city recently selected as the "Best Small City in America" by Bizjournal.com. Also located in Morgantown, West Virginia, are the Mary Babb Randolph Cancer Center, NIOSH Center for Pulmonary Disorders, and Mylan Pharmaceuticals.

To apply, please send curriculum vitae, statement of research and teaching interests, three representative publications, and the names and contact information of three references to: **Clifton P. Bishop, Search Chairperson, Department of Biology, West Virginia University, Morgantown, WV 26506-6057.** Inquiries may be directed to [e-mail: cbishop@wvu.edu](mailto:cbishop@wvu.edu). Review of applications will begin January 29, 2001. *West Virginia is an Equal Opportunity/Affirmative Action Employer. Applications from women, minorities, and the disabled are strongly encouraged.*

### FACULTY POSITION DEPARTMENT OF MEDICINE University of Pennsylvania Health System

Applicants are sought for a position at the **ASSISTANT PROFESSOR** level on the research track. This position is for individuals to pursue research on molecular mechanisms of sleep promotion. A strong background in molecular biology either in mammalian systems or *Drosophila* is essential. Previous experience in sleep research is considered an asset but is not essential. Applicants must have a Ph.D. and evidence of postdoctoral experience in molecular biology. Candidates should send curriculum vitae, summary of research interests, and names of three references to: **Allan I. Pack, M.D., Ph.D., Professor of Medicine, Director, Center for Sleep and Respiratory Neurobiology, 991 Maloney Building, Hospital of the University of Pennsylvania, 3600 Spruce Street, Philadelphia, PA 19104-4283.**

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

### ASSOCIATE DIRECTOR OF RESEARCH

The Parkinson's and Movement Disorder Institute is seeking applications for a **RESEARCHER**. Responsibilities will include carrying out research on Parkinson's disease and myoclonus. Previous interests in SHT, dopamine or brain hypoxia, cerebral blood flow preferred. The individual will pursue independent research and established research program. Ph.D. or M.D. with two years of postdoctoral research training required. Salary will be commensurate with qualifications and experience. Please send curriculum vitae, letters of reference to: **Daniel Truong, M.D., FAX: 714-378-5062; website: [www.pmdi.org](http://www.pmdi.org); e-mail: [dtruong@pmdi.org](mailto:dtruong@pmdi.org).**

**POSTDOCTORAL POSITIONS** are available to study (1) the role of apical junction proteins in retinal cell polarity and (2) genes involved in patterning of eye disc in *Drosophila*. Experience in molecular biology and *Drosophila* genetics is preferred. Send curriculum vitae and the names and telephone numbers of three references to: **Dr. Kwang Choi, Department of Molecular and Cellular Biology, M820, Baylor College of Medicine, Houston, TX 77030. E-mail: [kchoi@bcm.tmc.edu](mailto:kchoi@bcm.tmc.edu).** *Baylor College of Medicine is an Equal Opportunity Employer.*



## Italian National Research Council (CNR)

### *Vacancy announcement for Director positions in 22 CNR Institutes*

Since the legislative decree 19/99, the Italian National Research Council is undergoing a reform process which has brought substantial change in its structure and organization. Restructuring, as a change process, for CNR is quite similar to "reengineering" in the corporate sector, assuming that the underlying change occurs broadly throughout the Organization being restructured. As a result, also the CNR Research Units (Institutes and Centers) are involved in the reform process. The reorganization of such Units has the strategic purpose to concentrate human, instrumental and financial resources into a more limited number of Institutes. The former Units are being combined to give birth to the New CNR Institutes. These New Institutes, although having a greater scientific and management autonomy, shall comply with the CNR three year plan and be assessed on performance. In this framework, CNR announces a vacancy for positions of Director in the first 22 New Institutes. Candidates may be scholars and experts without citizenship restriction. Applicants must hold a continual, original and sound experience in fundamental or applied research relevant to the research fields of the Institute. The Director is asked for a full-time commitment. Deadline for application is February 28th, 2001. For more detailed and authoritative information, reference should be made to the original vacancy notice issued by CNR on the website: [www.cnr.it](http://www.cnr.it) under the web directory News. For any question please send an e-mail to [das.rep3@dcas.cnr.it](mailto:das.rep3@dcas.cnr.it) or contact Franca Rossi - Dipartimento Attività Scientifiche e Tecnologiche - +39-06-49932408.

**1) Istituto di genetica e biofisica "Adriano Buzzati-Traverso" - Naples** - Activity: Molecular biology, genetics, biotechnology and biophysics aimed at the functional and structural characterization of human, murine and other animals genome; Vertebrate and invertebrate models and of other prokaryotic and eukaryotic organisms, plants included; Study of hereditary diseases and processes of cellular regulation and differentiation, with particular attention to the nervous system and the immune response. The current establishment is n. 95 staff members.

**2) Istituto di metodologie inorganiche e dei plasmi - Rome** - Activity: Dynamics, kinetics and modelistic of non-equilibrium systems; Spectroscopic and diagnostic methodologies; Preparation, processing and characterization of functional materials; Innovative catalysts for reactions of environmental interest and hydrocarbon conversion. The current establishment is n. 56 staff members.

**3) Istituto per la sintesi organica e la fotoreattività - Bologna** - Activity: Development of new products and processes with particular reference to innovative methodologies in organic synthesis, spectroscopic characterization, theoretical models elaboration and in the study of reactivity; Study of the behavior of complex molecular systems (supramolecular systems and new materials) and bio-organic processes. The current establishment is n. 76 staff members.

**4) Istituto di struttura della materia - Rome** - Activity: Chemistry and physics of functional materials, such as molecular materials and organic-inorganic hybrids, magnetic and semiconductor materials, semiconductor materials for microelectronics and photonics; Structural and surface diagnostics, particularly nanoscopic and spectroscopic diagnostics of innovative materials relevant to cultural heritage and biological systems; Synchrotron light. The current establishment is n. 69 staff members.

**5) Istituto per lo studio delle macromolecole - Milan** - Activity: Polymerization catalysis, synthesis, and polymer modification for the "sustainable development"; Improvement and development of polymeric materials of natural origin and biocompatible; Polymeric materials for advanced technologies; Biological macromolecules; chemical-physic modeling and biotechnological applications. The current establishment is n. 60 staff.

**6) Istituto per lo studio dei materiali nanostrutturati - Rome** - Activity: Development of nanostructured materials applicable to electronics, catalysis, sensoristics and microsystems; Development of innovative methodologies of synthesis and epitaxial growth; Chemical-physical characterization of materials; Study and modification of surfaces and interfaces. The current establishment is n. 40 staff members.

**7) Istituto di chimica del riconoscimento molecolare - Milan** - Activity: Biomolecules (bioactive natural substances and synthesis of compounds of biological interest); Chemical biotechnologies (bioconversions and analytical methodologies); Mechanisms of bioregulation (molecular bases of biological regulation and experimental and theoretical studies of molecular recognition). The current establishment is n. 33 staff members.

**8) Istituto per l'energetica e le interfasi - Padua** - Activity: Inorganic materials and metals, materials and processes for energetics, electrochemical materials and processes; Modeling, synthesis and chemical-physical characterization of new materials; Surfaces and interphases; Determination of thermal quantity of surface and bulk. The current establishment is n. 86 staff members.

**9) Istituto per la microelettronica e microsistemi - Catania** - Activity: Innovative materials and processes for the development of new technologies and methods of diagnostics and characterization for the design and realization of micro- and opto-electronic devices on silicon and Si- components, sensors and microsystems, photo- and thermo-photovoltaic systems. The current establishment is n. 80 staff members.

**10) Istituto di scienze e tecnologie molecolari - Milan** - Activity: Theoretical and experimental modeling of molecular systems and nanosystems; Design, synthesis and characterization of precursors and functional molecules; Technological applications in fine chemistry, materials for information/telecommunication and cultural heritage. The current establishment is n. 35 staff members.

**11) Istituto di astrofisica spaziale e fisica cosmica - Rome** - Activity: Definition, realization and scientific utilization of instruments for space missions with particular reference to Gamma, X, UV, IR and millimetric astronomy, and to the study of cosmic background, observation technology, planetology and cosmic rays; Optical astronomy, theoretical astrophysics, astrophysical and information technologies. The current establishment is n. 182 staff members.

**12) Istituto di radioastronomia - Bologna** - Activity: Radioastronomy both under the astrophysical (connected with complementary researches in other electromagnetic spectrum bands) and instrumental point of view (realization and management of massive radiotelescopes); Space geodesy and technology for astronomic in radio bands, millimetric, infrared and optical instrumentation. The current establishment is n. 57 staff members.

**13) Istituto di scienze dell'atmosfera e del clima - Bologna** - Activity: Meteorology and its applications; Climate variability, changes and forecastability; Atmosphere structure and composition; Earth observations. The current establishment is n. 115 staff members.

**14) Istituto per le applicazioni del calcolo "Mauro Picone" - Rome** - Activity: Development of mathematical, statistical and computational methods highly innovative on solving, mostly in interdisciplinary applications, applicative interest problems relevant to society and industry. The current establishment is n. 56 staff members.

**15) Istituto di scienza e tecnologie dell'informazione - Pisa** - Activity: Software science and technology, computer networks, advanced and parallel computing, reliable systems and testing methods, online multimedia systems, information systems, computer graphics and scientific visualization, image processing and artificial vision, structural and computational mechanics, space flight dynamics, information technologies and applications. The current establishment is n. 157 staff members.

**16) Istituto per i processi chimico-fisici - Pisa** - Activity: Matter and radiation: structure, dynamics, transformations, reactivity, interactions even in extreme conditions; Computational, analytical, spectroscopic methodologies and their innovative applications; Modelization of materials and complex systems. The current establishment is n. 83 staff members.

**17) Istituto di chimica inorganica e delle superfici - Padua** - Activity: Synthesis of precursors and inorganic materials and surface processing by means of innovative vapor phase techniques; Synthesis and design of inorganic molecular and supramolecular systems; Study and application of radioanalytical techniques in environmental fields; Methodologies and technologies for the knowledge, classification and exploitation of cultural heritage. The current establishment is n. 37 staff members.

**18) Istituto di tecnologie industriali e automazione - Milan** - Activity: Strategic studies and development of new configurations of products, processes, intelligent systems and related instruments, design and management methodologies for the competitiveness and the sustainability of enterprises. The current establishment is n. 37 staff members.

**19) Istituto di biometeorologia - Florence** - Activity: Evaluation of global changes impact on agriculture and forests, man and his health, territory and landscape; Development of models for innovation and optimization of agro-forest systems; Climate and weather interaction with product quality and rational use of climatic resources; Weather and seasonal forecasting in agriculture; crop monitoring systems, harvest and product quality forecasting systems. The current establishment is n. 46 staff members.

**20) Istituto di genetica molecolare - Pavia** - Activity: Genetic, molecular and biochemical investigations on mechanisms of control of gene expression and proliferation of human cells particularly in pathological conditions (cancer, hereditary diseases, aging, viral infection); Development of biomolecules with antiproliferative and/or antiviral activity; Identification of disease genes, genetic and functional analysis of pathological mutations; Development of new methodologies for analytical cytology; applications to biomedical diagnostics and to the study of differentiation and the maintaining of the differentiated state; Analysis of genetic structure and human population evolution; mathematical models of evolution: algorithms for the analysis of macromolecular sequences. The current establishment is n. 33 staff members.

**21) Istituto di matematica applicata e tecnologie informatiche - Pavia** - Activity: Mathematical informatics; Differential modeling and numerical analysis; Mathematical statistics. The current establishment is n. 50 staff members.

**22) Istituto di tecnologie avanzate per l'energia "Nicola Giordano" - Messina** - Activity: Researches relevant to systems for the direct production of electrical energy; Systems for combustible production from traditional and renewable sources of energy; Systems for transformation, build-up and transportation of energy. The current establishment is n. 27 staff members.

## POSITIONS OPEN

NIH-funded, full-time research position for a **POSTDOCTORAL RESEARCH FELLOW**, Columbia University Department of Anesthesiology. Candidate must be available to work within six months and have an M.D. or Ph.D. degree and U.S. citizenship or a valid work visa. Many areas of research are currently available in neuroscience, pharmacology, and medicine, including projects related to the structure and function of general anesthetic modulation of ligand-gated ion channels. Candidate should have experience with molecular biology and/or ion channel physiology. Interested candidates should write, call, or FAX: **Dr. Margaret Wood, Professor and Chairman, Department of Anesthesiology, 630 West 168th Street, New York, NY 10032. Telephone: 212-305-3117; FAX: 212-305-3296.** Columbia University is an Equal Opportunity/Affirmative Action Employer.

Harvard Medical **POSTDOCTORAL POSITION**. Exciting research on the structure, function, and cell biology of integrins, IgSF, and selectin adhesion molecules. Special topics include structural changes in integrins that are regulated by signals within the cell and how selectins mediate force-resistant interactions in the vasculature. Strong backgrounds in structural or computational biology, protein chemistry, cell biology, biophysics, and/or bioengineering are particularly sought. Good command of English required. Apply to: **Timothy A. Springer**; address and further information are at website: <http://sprgsi.med.harvard.edu>.

Two **POSTDOCTORAL POSITIONS** are available immediately to study the regulation of growth and metabolism with emphasis on hormone structure-function relationships and signal transduction processes. A full description is available at website: <http://www.ndsu.nodak.edu/ndsu/holbrook/nonclass.stm>. Review of applications begins January 21, 2001. Send letter of application, curriculum vitae, and names of three references to: **Dr. Mark Sheridan, Zoology Department, North Dakota State University, Fargo, ND 58105. E-mail: Mark.Sheridan@ndsu.nodak.edu.** NDSU is an Equal Opportunity Institution.

### TWO POSTDOCTORAL POSITIONS IN GENE THERAPY

Available immediately. Development of gutted and targeted adenovirus vectors for treatment of retinal degeneration in animal models of retinitis pigmentosa. See *Hum. Mol. Genet.* 7:1893, 1998; 5:913, 1996. Submit application and three letters of recommendation to: **Rajendra Kumar-Singh, Ph.D., University of Utah, 15 North 2030E, Room 3240B, Salt Lake City, UT 84112-5330.** Equal Opportunity/Affirmative Action Employer.

### POSTDOCTORAL RESEARCH FELLOW

Experience in studying apoptosis and drug resistance in human prostate cancer models. The focus will be on novel cell-permeable peptides that are based upon p53 sequences as well as novel antitubulin drugs. Candidate with Ph.D. and/or M.D. should have a strong background in apoptosis and molecular biology. Send curriculum vitae, summary of research experience, and reference to: **Daniel Petrylak, M.D., Columbia University, 161 Fort Washington Avenue, New York, NY 10032.** We are an Equal Opportunity/Affirmative Action Institution.

The Veterans Medical Research Foundation (VMRF) has a **POSTDOCTORAL POSITION** available to investigate hepatic cell signal transduction pathways. Candidates must have experience in isolation, culture, and transfection of mouse liver cells. Program is affiliated with the University of California, San Diego, and the Veterans Affairs Medical Center-San Diego. Send curriculum vitae and names of three references to: **Veterans Medical Research Foundation (Job Number MC-PD1), 3350 La Jolla Village Drive Number 151A, San Diego, CA 92161. E-mail: vmrfhr@vapop.ucsd.edu.** Affirmative Action/Equal Opportunity Employer.

## POSITIONS OPEN

### STAFF SCIENTIST NHLBI, NIH

Staff Scientist position immediately available in the Laboratory of Lymphocyte Biology of the National Heart, Lung, and Blood Institute, National Institutes of Health. The candidate, a Ph.D. or M.D. Scientist with at least three years of postdoctoral research experience and a strong publication record in molecular immunology, will be expected to assist in the development and execution of the laboratory research programs studying mechanisms of T lymphocyte signal transduction in collaboration with the Laboratory Chief. To apply, please send curriculum vitae, bibliography and brief statement of research interests, and have sent three letters of recommendation to: **Dr. Barbara E. Bierer, Chief, Laboratory of Lymphocyte Biology, 10 Center Drive, Room 6C208, Bethesda, MD 20892. Telephone: 301-402-6786 (office); e-mail: BiererB@nih.gov.** Applications must be received by March 1, 2001. NIH is an Equal Opportunity Employer.

### INSECT SYSTEMATIST

The Walter Reed Army Institute of Research, Department of Entomology, has an opening for a Ph.D. insect systematist for work on mosquitoes of medical importance. Duties will include basic and applied research using morphological and molecular tools, consulting to Army and other DOD activities, field studies and curation of the National Mosquito Collection. Work site is the Smithsonian Institution, Museum Support Center, near Washington, DC. Salary range \$51,204-\$66,564. To apply go to [www.usajobs.opm.gov/a6.htm](http://www.usajobs.opm.gov/a6.htm), Series 0414, position BBU100115 (closes 2 Jan. 2001, U.S. citizens only).

A **POSTDOCTORAL POSITION** is available to study the roles of unconventional myosins and Rab GTPases in vesicle transport or interactions between myosins and proteins that control the assembly state of actin. Model systems include mice and *Dictyostelium*. Training is available in a variety of cellular, molecular, biochemical, and microscopic techniques. Interested individuals should contact: **Dr. John A. Hammer, Chief, Section on Molecular Cell Biology, Laboratory of Cell Biology, Building 3, Room B1-22, National Institutes of Health, Bethesda, MD 20892-0301. E-mail: hammerj@nhlbi.nih.gov.** NIH is an Equal Opportunity Employer.

Senior **POSTDOCTORAL FELLOW** to **PRINCIPAL INVESTIGATOR** transition training. Unique two-year program at the Department of Veterans Affairs Medical Center, Long Beach, California, to ensure the next generation of Principal Investigators. Faculty appointment at University of California-Irvine also. Requirements are Senior Postdoctoral Fellow status (but not more than five years after Ph.D.) and U.S. citizenship. Focus is on angiogenesis or cellular actions of steroids. Send curriculum vitae to: **Dr. Ellis; e-mail: ellis.levin@med.va.gov.**

### MOLECULAR BIOLOGY

**POSTDOCTORAL POSITIONS** are available to study apoptosis and autoimmunity using functional genomics techniques. The projects focus on TNF family of proteins and newly identified apoptosis regulators (website: <http://www.med.upenn.edu/~camb/fac/Chen.html>). Please send curriculum vitae to: **Dr. Youhai Chen, University of Pennsylvania School of Medicine, 653 BRB-II, 421 Curie Boulevard, Philadelphia, PA 19104. E-mail: yhc@mail.med.upenn.edu.**

**SENIOR SENSOR PHYSICIST** wanted by manufacturer of electronically controlled gauging and control systems in Irwindale, California. Will be responsible for research, development, and design of nucleonic and nonnucleonic sensor-related products. Four years of experience required. Respond to: **HR Department, NDC Systems Inc., 5314 North Irwindale Avenue, Irwindale, CA 91706.**

## POSITIONS OPEN

### POSTDOCTORAL POSITION VASCULAR BIOLOGY

Postdoctoral position is available immediately in the following areas: (1) gene regulation in vascular cells (experience in molecular biology and/or biochemistry required); and (2) cellular mechanisms of smooth muscle differentiation (a strong background in cell biology required).

Interested candidates should send curriculum vitae (including three references) and direct inquiries to:

**Yi Shi, M.D., Ph.D.  
Cardiovascular Research Center  
Thomas Jefferson University  
1025 Walnut Street, Suite 403  
Philadelphia, PA 19107  
E-mail: yi.shi@mail.tju.edu**

**POSTDOCTORAL POSITION** immediately available in biochemistry/molecular biology. Apply biochemical and molecular biology techniques in complex carbohydrate synthesis. Develop novel approaches in discovery and production of glycotherapeutics. Excellent opportunities to interface with the latest biochip and combinatorial technologies. Required are experiences with heterologous protein expression, mutagenesis, and cell surface display of proteins. Protein purification, bioanalytical skills, and working knowledge of bioorganic chemistry are desirable. Send curriculum vitae to: **Dr. Rachel Chen, Department of Chemical Engineering, Virginia Commonwealth University, Box 843028, Richmond, VA 23284-3028. E-mail: rchen@saturn.vcu.edu.** Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL/RESEARCH ASSOCIATE POSITION** is available to study the catalytic mechanisms and relation of structure and function in superoxide dismutases and carbonic anhydrases. This laboratory uses structural and rapid kinetic methods as well as redox potential measurements to study the role of metals and of proton and electron transfer in catalysis. Experience in physical biochemistry and/or structural biology is desired. Please send curriculum vitae and the names of three references to: **Dr. D. N. Silverman, Box 100267, Health Center, University of Florida, Gainesville, FL 32610-0267. E-mail: silvermn@college.med.ufl.edu.** Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available immediately to study molecular mechanisms of ion channel function in voltage-dependent and calcium-activated potassium channels. Approaches include electrophysiology, computer modeling, mutagenesis, cysteine modification, and fluorescence techniques. Experience with electrophysiology, optical methods, or biochemistry required. Send curriculum vitae and names of three references to: **Frank Horrigan, University of Pennsylvania, Department of Physiology, A401 Richards, 3700 Hamilton Walk, Philadelphia, PA 19104. E-mail: horrigan@mail.med.upenn.edu.** Equal Opportunity Employer/Affirmative Action.

### POSTDOCTORAL POSITION

The Beckman Research Institute of the City of Hope has an opening in the laboratory of **Dr. Gerd P. Pfeifer**. The candidate will work in the fields of cancer biology, DNA repair, and mutagenesis in mammalian cells. See *J. Natl. Cancer Inst.* 92:803; *Nature Genet.* 25:315. Please send curriculum vitae and names of three references to: **Gerd P. Pfeifer, Department of Biology, City of Hope, Duarte, CA 91010. FAX: 626-930-5366; e-mail: gpfeifer@coh.org.**

**POSTDOCTORAL POSITION.** HIV recombination creates viral diversity that frustrates therapy. We are defining the mechanisms of RNA-RNA interaction and reverse transcriptase functions that promote crossovers within the copackaged HIV genomes. Strong background in biochemistry and molecular biology required. Send curriculum vitae and three recommendations to: **Dr. Robert Bambara, Biochemistry and Biophysics, Box 712, University of Rochester, Rochester, NY 14642. Website: <http://dbb/urmc.rochester.edu>.**

## **International University Bremen,**

A PRIVATE RESEARCH UNIVERSITY, WILL OPEN WITH THE FIRST UNDERGRADUATE SEMESTER IN SEPTEMBER 2001. OPENINGS FOR ASSISTANT, ASSOCIATE AND FULL PROFESSORSHIPS, DEPENDING ON QUALIFICATION, NOW EXIST IN THE FOLLOWING SCHOOLS:

# **School of Engineering and Science**

## **17 Professorships – Mathematics, Physics, Chemistry, Biology and Related Engineering / Science Disciplines.**

Initially, undergraduate majors will be offered in the above major disciplines as well as in the following areas:

- Computational Science
- Electrical Engineering and Computer Science
- Earth and Planetary Sciences
- Chemical Engineering
- Biochemistry and Cell Biology
- Bioinformatics

Additional undergraduate majors and advanced degree programs are being developed for the subsequent years.

Accordingly, applicants are expected to have profound knowledge and excellent record in research and/or teaching related to one or more of the following areas:

*Mathematics, Physics, Chemistry, Biology, Statistics, Applied*

*Mathematics, Computer Science, Electrical and Computer Engineering, Chemical Engineering, Physical Chemistry, Geophysics and Geology, Space Physics, Planetary Physics, Biochemistry, Molecular Biology, Cell Biology, Neurosciences and Bioinformatics.*

# **School of Humanities and Social Sciences**

## **10 Professorships – Cognitive Psychology, Social Sciences, History, Fine Arts and Literature, Applied Statistics / Research Methods.**

Undergraduate majors will be offered in Cognitive Psychology, Social Sciences, History, and Fine Arts and Literature. Advanced degree programs are being developed for the subsequent years. Applicants are expected to excel in research and/or teaching within one or more of the following specific areas:

*Social and Economic Cognition, Information Processing, Social Psychology, Comparative Economics, Modern Management and Marketing, Information Technology, Comparative Politics, European Politics, International Relations and the Nation State, Comparative Communication Behaviour, Mass*

*Communication Systems, New Media and the Knowledge Society, Contemporary History, Social History, History of Science and Technology, Comparative Literature and Languages, Art and Art History, Musicology.*

One of the goals IUB has set for itself is to challenge traditional disciplinary boundaries and to teach and do research in fields which require problem-orientated transdisciplinary approaches.

Professors are expected to engage in active research. The teaching load will range from 3 to 6 hours per week. Particularly useful will be experience with or an aptitude in the use of electronic media in classroom teaching. The language of instruction is English. Strong interaction with the students, also outside class and lab hours, is an indispensable element of IUB.

Salaries will be commensurate with qualifications and experience. IUB does not offer tenure, but contract terms are flexible and may be extended based upon performance and the university's needs. A normal initial contract will be for a period of three to five years. One-year visiting faculty will also be considered.

For further information please visit our website [www.iu-bremen.de](http://www.iu-bremen.de).

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NOMINATIONS AND  
APPLICATIONS SHOULD  
ARRIVE PRIOR TO  
JANUARY 31, 2001.  
PLEASE ADDRESS  
COMMUNICATIONS TO:

PROF. DR.  
GERHARD HAERENDEL  
DEAN OF ENGINEERING  
AND SCIENCE  
([HAE@IU-BREMEN.DE](mailto:HAE@IU-BREMEN.DE))

OR  
PROF. DR. MAX KAASE  
DEAN OF HUMANITIES  
AND SOCIAL SCIENCES  
([MK@IU-BREMEN.DE](mailto:MK@IU-BREMEN.DE))

AT  
INTERNATIONAL  
UNIVERSITY BREMEN  
P.O. BOX 75 05 61  
28725 BREMEN  
GERMANY



## POSITIONS OPEN

Three to six **POSTDOCTORAL/RESEARCH ASSOCIATE** positions available at Washington State University (1) to study the role of cytoskeleton and titin in diastolic (dys)function of cardiac muscle. The applicant should have background in physiology/biophysics of muscle function with working knowledge of cellular, muscle, or isolated heart mechanics. (2) To study signal transduction mechanisms employed by angiotensin receptors in cardiac cells. (3) To study sleep-dependent changes in synaptic remodeling that accompanies learning.

Long-term funding available. For detailed information on the positions, e-mail: [bmorton@vetmed.wsu.edu](mailto:bmorton@vetmed.wsu.edu); Telephone: 509-335-6621. Application review begins January 15, 2001. Washington State University is an Equal Employment Opportunity Employer. Protected group members are encouraged to apply.

Two **POSTDOCTORAL (Ph.D.) RESEARCH POSITIONS** and two **RESEARCH ASSISTANT (B.S./M.S.)** positions available immediately at Harvard Medical School in the area of radiopharmaceutical chemistry and the design of new imaging agents. Motivated candidates with strong skills in synthetic chemistry (organic/inorganic/peptide chemistry) or in biology (molecular biology/cell or tissue culture/receptor assays) are encouraged to apply. Candidates should submit curriculum vitae and the names and addresses of three references to: **Dr. Alun G. Jones, Department of Radiology, Harvard Medical School, 220 Longwood Avenue, Room B1-242, Boston, MA 02115. E-mail: [agjones@hms.harvard.edu](mailto:agjones@hms.harvard.edu). Harvard Medical School is an Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITIONS** are available to study regulation of ion channels using molecular biology, electrophysiology, and transgenic animals. Recent publications from the laboratory include *Nature* 391:803-806, 1998; *PNAS* 96:5820-5825, 1999; *JBC* 275:10182-10189, 2000. Candidates must have Ph.D. and/or M.D. and be highly motivated. Background in molecular biology, transgenic animal, and/or electrophysiology is required. Send curriculum vitae and names of references to: **Dr. Chou-Long Huang, M.D., Ph.D., Department of Medicine, The University of Texas Southwestern Medical Center at Dallas, Dallas, TX 75390-8856. E-mail: [chou-long.huang@UTSouthwestern.edu](mailto:chou-long.huang@UTSouthwestern.edu); FAX: 214-648-2071; Telephone: 214-648-8627. UT Southwestern is an Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITIONS** for NIH grant-supported studies in liver stem cell biology and risk factors for hepatocellular carcinoma in genetically altered mice. Experience in molecular biology, tissue culture, cell cycle control, growth factor biology, and/or chemical carcinogenesis preferred. Send curriculum vitae and letters from two references to: **Dr. Stewart Sell, Division of Experimental Pathology, Albany Medical College, 47 New Scotland Avenue, Albany, NY 12208-3479. FAX: 518-262-5927; e-mail: [sells@mail.amc.edu](mailto:sells@mail.amc.edu).**

**POSTDOCTORAL POSITIONS** are available to study the molecular and cellular mechanism of tumor angiogenesis. Applicants should have a Ph.D. or equivalent degree and be experienced in molecular and cell biology. Experience with animal surgery is preferred. Interested individuals should send curriculum vitae and the names of three references to: **Dr. Charles Lin, 2220 Pierce Avenue, 315 MRB II, Vanderbilt University Medical Center, Nashville, TN 37232. E-mail: [charles.lin@mcmail.vanderbilt.edu](mailto:charles.lin@mcmail.vanderbilt.edu).**

**POSTDOCTORAL POSITION** available immediately to study Wnt/WISP signaling pathways in cancer and metastasis in transgenic mice models in collaboration with **Dr. Arnold Levine** at neighboring Rockefeller University. Applicants must have Ph.D. and experience in molecular biology and ability to work with mice. Please send curriculum vitae to: **Dr. Kam-Meng Tchou-Wong, NYU School of Medicine, 550 First Avenue, MSB147, New York, NY 10016. Telephone: 212-263-0255; FAX: 212-263-8902; e-mail: [tchouk02@endeavor.med.nyu.edu](mailto:tchouk02@endeavor.med.nyu.edu).**

## POSITIONS OPEN

The Department of Neurology at the Medical University of South Carolina is seeking a Ph.D. and/or M.D. for **POSTDOCTORAL FELLOWSHIP** training in the laboratory of **Dr. William Tyor**. This position is available immediately. **Dr. Tyor's** research efforts involve the use of an animal model to investigate the pathogenesis and treatment of HIV encephalitis. HIV-infected human monocytes are inoculated into the brains of SCID mice. Experience in immunology and/or virology and techniques associated with these disciplines such as PCR, ribonuclease protection assays, immunocytochemical techniques, tissue sectioning and staining, and/or cell and viral culture is preferred. Interested applicants should send a letter of interest and curriculum vitae to: **William Tyor, M.D., Associate Professor, Department of Neurology, Medical University of South Carolina, 96 Jonathan Lucas Street, P.O. Box 250606, Suite 309, Charleston, SC 29425. The Medical University of South Carolina is an Equal Opportunity (Minorities/Females) Affirmative Action Employer. Applications from minorities and women are encouraged.**

A **POSTDOCTORAL POSITION** is available in the Department of Pharmacology, The Brody School of Medicine of East Carolina University to study the roles of molecular motor proteins in mammalian spermatogenesis. The successful candidate should have a Ph.D. in pharmacology, biochemistry, molecular biology, or related discipline. Preference will be given to applicants experienced in protein analysis using 2 D-PAGE, advanced molecular biology techniques, and immunocytochemistry. The anticipated start date for this position is February 1, 2001. Please submit curriculum vitae and three letters of reference by December 30, 2000, to: **Dr. Ann O. Sperry, The Brody School of Medicine of East Carolina University, Department of Pharmacology, Greenville, NC 27858-4353. East Carolina University is an Affirmative Action/Equal Opportunity Employer and invites applications from women and minority scientists. Federal law requires proper documentation of identity and employability at the time of employment.**

## POSTDOCTORAL POSITION

National Institutes of Health, Bethesda, Maryland. Interactions of human herpes viruses with the host are being investigated. Studies include cellular receptors, role of viral genes in latency in humans and animals, and vaccine development. Applicants should have experience in virology and molecular biology or immunology and less than five years of postdoctoral experience. Send curriculum vitae to: **Dr. Jeffrey I. Cohen, NIH, Laboratory of Clinical Investigation, Building 10, Room 11N228, 10 Center Drive, MSC 1888, Bethesda, MD 20892-1888. E-mail: [jcohen@niaid.nih.gov](mailto:jcohen@niaid.nih.gov). Applications will be accepted until February 23, 2001. NIH is an Equal Opportunity Employer.**

**POSTDOCTORATE/RESEARCH ASSOCIATE** to join in studies of the physiology and molecular mechanisms by which central neural pathways are neuroprotective and regulate cerebral blood flow. Background/experience in small animal surgery and systems and cellular electrophysiology. Contact: **E. V. Golanov, Division of Neurobiology, Weill Medical College of Cornell University, 411 East 69th Street, New York, NY 10021. E-mail: [egolano@med.cornell.edu](mailto:egolano@med.cornell.edu). Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.**

**POSTDOCTORAL POSITION** to study cell cycle inhibitor proteins in growth and tumor suppression of hematopoietic stem cells; epithelial/mesenchymal interactions; or terminally differentiated sensory cells using knock-in and knockout mice, stem cells, and RNA transcriptome analysis. Send curriculum vitae and the names of three references to: **Dr. Matthew Fero, Division of Clinical Research D2-100, Fred Hutchinson Cancer Research Center, Seattle, WA 98109. FAX: 206-667-5669; e-mail: [mfero@fhcrc.org](mailto:mfero@fhcrc.org).**

## POSITIONS OPEN

### POSTDOCTORAL LISTING SPIVACK LABORATORY

Lung carcinogenesis laboratory in a toxicology division. Multidisciplinary molecular epidemiology studies on carcinogen metabolism genes require an experienced **POSTDOCTORAL FELLOW** to commence functional studies on gene expression and metabolic consequences of regulatory region and cdc polymorphisms found in human lung cancer population. Postdoctoral Fellow duties will include synthesis and expression of variant forms of carcinogen-metabolizing enzymes and functional analyses on these forms; regulatory, pharmacokinetic, and pharmacodynamic studies of carcinogen-gene-protein interactions. Requires previous specifically applicable molecular biology experience. Position is for two years with one or more years of renewal possible. Exceptional technical, bioinformatics, genetic, and genomics support services. Albany offers decompressed lifestyle, East Coast location, unmatched summer cultural and four-season outdoor activities, and is a three hours' drive/train from New York City, Boston, and Montreal. Contact: **Simon D. Spivack, M.D., MPH, SUNY-School of Public Health, Wadsworth Center, New York State Department of Health. Telephone: 518-473-0782; e-mail: [spivack@wadsworth.org](mailto:spivack@wadsworth.org).**

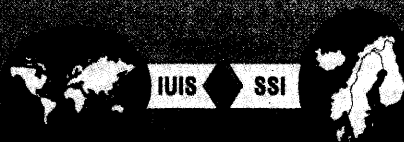
### POSTDOCTORAL RESEARCH POSITION SOMATIC STEM CELL RESEARCH Massachusetts Institute of Technology

A position is available immediately for a recent M.D., Ph.D., or M.D./Ph.D. graduate trained in biochemistry, cell biology, or molecular biology with an interest in pursuing research in the area of somatic stem cell regulation. Research projects include investigations of the following aspects of stem cell regulation: liver stem cell bioengineering, hematopoietic stem cell bioengineering, cyclin-dependent kinase regulation, and gene expression microarray and proteomics analyses of stem cells. Interested candidates should forward statement of research interests, curriculum vitae, and three letters of reference to: **Professor James L. Sherley, M.D., Ph.D., Division of Bioengineering and Environmental Health, Massachusetts Institute of Technology, Building 16, Room 755, 77 Massachusetts Avenue, Cambridge, MA 02139-4307. E-mail: [jsherley@mit.edu](mailto:jsherley@mit.edu). MIT is an Equal Opportunity/Affirmative Action Employer. MIT is a nonsmoking environment.**

## POSTDOCTORAL FELLOW

Position available immediately to study neurotrophin receptor signaling and trafficking in normal neurons and in neurons derived from mouse models of neurodegenerative diseases. Research experience in protein chemistry and cell and molecular biology required. Attractive salary and benefits. Send curriculum vitae, summary of research interests, and the names of three references to: **William C. Mobley, M.D., Ph.D., Professor and Chairman, Department of Neurology, Stanford University School of Medicine, MSLS Building, Room P205, 1201 Welch Road, Stanford, CA 94305-5489. FAX: 650-498-6262; e-mail: [ngfv1@stanford.edu](mailto:ngfv1@stanford.edu).**

A **POSTDOCTORAL POSITION** is available for work on liposomal delivery of alpha particles. The project involves development of novel, liposome-encapsulated delivery approaches for long-lived alpha particle emitters and their radioactive daughters. The candidate will be working with the group that first implemented alpha-emitter radioimmunotherapy in patients. The position requires expertise in liposome development and encapsulation of agents. A familiarity with radionuclide labeling chemistry techniques is an advantage but not essential. Send curriculum vitae, a brief statement of research interests, and the names of three references to: **Dr. George Sgouros, Department of Medical Physics, Memorial Sloan-Kettering Cancer Center, New York, NY 10021. E-mail: [sgouros@mskcc.org](mailto:sgouros@mskcc.org).**



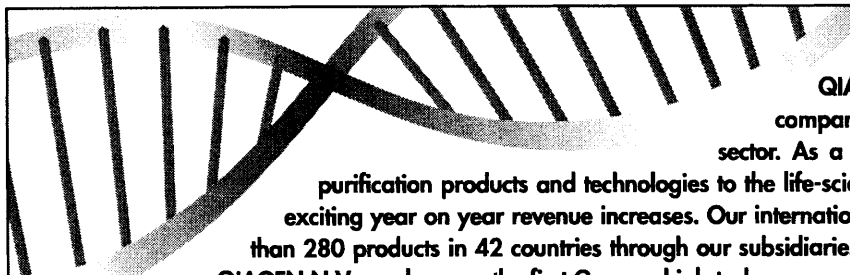
# 11th International Congress of Immunology

22-27 July 2001, Stockholm, Sweden

**Deadline for submission of abstracts: February 1, 2001**

**[www.ici2001.org](http://www.ici2001.org)**

## EUROPEAN OPPORTUNITIES



Join the QIAGEN team!

QIAGEN is one of the most successful biotech companies and has achieved unmatched growth in its sector. As a worldwide provider of innovative DNA/RNA purification products and technologies to the life-science research industry, we have demonstrated exciting year on year revenue increases. Our international sales and marketing teams distribute more than 280 products in 42 countries through our subsidiaries and partners. Through our holding company QIAGEN N.V., we became the first German high-tech company to complete a public offering on Nasdaq, and a subsequent listing in the Neuer Markt in 1997. QIAGEN is continuing on a path of strong growth and market leadership as it penetrates new markets in the research and commercial sectors.

We are seeking a:

### Technical/Marketing Writer

to join our writing team in our International Marketing Communications Department at corporate headquarters in **Hilden, Germany**.

As a **Technical/Marketing Writer**, you will be responsible for writing, editing, and coordination of technical and promotional literature in close collaboration with our R&D, design, and marketing teams. You must be a native English speaker with a molecular biology background and excellent written and verbal communications skills. Experience in technical writing and/or marketing is desirable, but not essential.

We offer relocation assistance, external and internal training opportunities, attendance at scientific meetings, and a solid benefits package.

If you are interested in working with a young and enthusiastic multinational team based at the headquarters of a rapidly growing international company situated between Cologne and Düsseldorf, please send your resume and salary expectations to the following address without delay (Reference JP 12/00).

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## POSITIONS OPEN

A **POSTDOCTORAL FELLOWSHIP** is available to study novel cardiac purinergic receptors. Combined molecular biology and mouse physiology approaches will be used. Environment is excellent and salary is competitive. Permanent residence is required. Applicant must have a Ph.D. and/or M.D. with strong cell and molecular biology background. Send résumé to: **Dr. Bruce Liang**; e-mail: [liangb@mail.med.upenn.edu](mailto:liangb@mail.med.upenn.edu).

## POSTDOCTORAL POSITIONS CANCER GENETICS AND DNA CHIPS

Positions available as part of a Cornell University Medical Center/Memorial Sloan-Kettering Cancer Center/Rockefeller University tri-institutional N.C.I. funded program project grants for (1) the development of comprehensive genetic and epigenetic DNA chips for the profiling of human tumors, i.e., expression analysis, point mutations, LOH/gene amplification, DNA methylation status; (2) development of SNP DNA chips for identification of new cancer genes; and (3) identification of inherited mutations associated with increased risk for cancer development. Applicant should have a Ph.D., preferably with experience in cancer genetics, molecular biology, genomics, bioinformatics, population genetics, protein-DNA interactions, DNA arrays, and/or automation in DNA and PCR technology. Competitive salary commensurate with experience. Send curriculum vitae and names of three references to: **Professor Francis Barany, Program Director, Programs of Biochemistry, Structural Biology, and Molecular Biology, Box 62, Cornell University Medical Center, 1300 York Avenue, New York, NY 10021. FAX: 212-746-8588 or to: Philip Paty, M.D., Department of Surgery, Box 453, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. FAX: 212-717-3678. Equal Opportunity Employer.**

## RESEARCH ASSOCIATE

A U.S. Department of Agriculture-funded **POSTDOCTORAL RESEARCH ASSOCIATE** position is available to investigate Salmonella immunobiology in poultry. This is a collaborative study between the University of Maryland, USDA Agricultural Research Services, and the Food and Drug Administration and will be based at the University of Maryland College Park campus. The project will involve characterizing intestinal immune response to Salmonella infection and evaluating various infection intervention strategies. Minimum requirements are a Ph.D. in microbiology or closely related scientific field with excellent project management and communication skills. Research experience in immunology to Salmonella is desirable. Starting salary is \$30,000 per annum with benefits. Send letter of interest; curriculum vitae; and the names, e-mail addresses, and telephone numbers of three references to: **Robert Heckert**; e-mail [rh175@umail.umd.edu](mailto:rh175@umail.umd.edu). This position is available immediately. Applications will be accepted until a suitable candidate has been identified.

A **POSTDOCTORAL POSITION** is immediately available to study the roles of tumor suppressor gene BRCA2 in breast cancer tumorigenesis. A highly motivated, energetic applicant with strong background in biochemistry and molecular and cell biology is preferred. Salary will be negotiable depending on qualifications and experience of the candidate. Please send curriculum vitae, reprints of published research papers, and contact information for three references to:

**Qingshen Gao, M.D.**  
Department of Radiation Oncology  
New England Medical Center  
Tufts University School of Medicine  
NEMCH Number 824,750 Washington Street  
Boston, MA 02140  
Telephone: 617-636-9015  
FAX: 617-636-6205  
E-mail: [QGAO@lifespan.org](mailto:QGAO@lifespan.org)

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH POSITIONS

#### *In Utero* Gene Therapy/Repair to Correct Murine Genetic Disorders

Two NIH-funded **POSTDOCTORAL POSITIONS** are immediately available in the area of *in utero* gene therapy and gene repair. This is a joint venture between the Department of Pediatrics, Division of BMT (**Dr. Bruce Blazar**) and the Department of Internal Medicine, Division of Molecular Medicine (**Dr. Clifford Steer**). Studies will be conducted with chimeric DNA-RNA oligonucleotides to repair point mutations and with the Sleeping Beauty transposon system to repair gene deletions. Studies will be conducted using an *in utero* system that has been extensively utilized for hematopoietic and mesenchymal cell delivery. Recent relevant references include: *Nat. Med.* **4**:285, 1998; *Blood* **92**:3949, 1998; *Proc. Natl. Acad. Sci.* **96**:10349, 1999.

Successful applicants will have an M.D. and/or Ph.D. degree and a track record of accomplishments and expertise in molecular biology and/or *in vivo* murine studies. Excellent facilities are available. Salary will be competitive.

Applicants should include a letter of application and current curriculum vitae by e-mail and names and e-mail addresses of two to three references to: **Dr. Bruce R. Blazar, MMC 109, University of Minnesota, 420 S.E. Delaware Street, Minneapolis, MN 55455. FAX: 612-624-3913; e-mail: blaza001@tc.umn.edu.**

### POSTDOCTORAL RESEARCH SCIENTIST POSITION PROTEOMICS

A Postdoctoral position is available immediately in the Biology and Biotechnology Research Program at Lawrence Livermore National Laboratory, Livermore, California, to develop a high-throughput proteomic technology called dynamic liquid array. This technology uses flow cytometry and fluorescent beads to which proteins or DNA of interest are attached. The successful candidate will have protein biochemistry experience including characterization of protein/ligand interactions. The position requires a recent Ph.D. in biochemistry, molecular or cellular biology, or related area. A strong background in protein characterization, recombinant protein expression and purification, and molecular biology is required. Experience with protein/protein and protein/ligand interactions is advantageous. Familiarity with flow cytometry a plus but not required.

LLNL offers a challenging environment and a competitive salary/benefits package. Located in the scenic Livermore Valley, we are within easy driving distance to San Jose, San Francisco, and the surrounding Bay area communities. To be considered, reference Department AJSJCCM0BS. E-mail résumé to: [albalal@llnl.gov](mailto:albalal@llnl.gov); website: [www.llnl.gov/jobs](http://www.llnl.gov/jobs).

We are proud to be an Equal Opportunity Employer with a commitment to workforce diversity.

### POSTDOCTORAL POSITIONS PROSTATE CANCER

Several Postdoctoral positions are available for individuals interested in joining an expanding interdisciplinary prostate and urologic cancer program. Specific areas of interest include (1) signal transduction pathways controlling androgen-independent progression, (2) molecular genetics of prostate cancer progression, (3) cell-cell interactions in prostatic development and cancer progression, and (4) molecular diagnostics and therapeutics. Candidates must have a Ph.D. and/or M.D. degree and a strong background in molecular and/or cellular biology. Applicants should send curriculum vitae and names of references to: **Dr. Allen C. Gao**; e-mail: [gaoac@msx.upmc.edu](mailto:gaoac@msx.upmc.edu); or **Dr. Robert H. Getzenberg**; e-mail: [getzenbergh@msx.upmc.edu](mailto:getzenbergh@msx.upmc.edu), University of Pittsburgh School of Medicine, Department of Urology, Shadyside Medical Center G03, 5200 Centre Avenue, Pittsburgh, PA 15232. FAX: 412-623-3907.

## POSITIONS OPEN

### INTERESTED IN CLINICAL OR POSTDOCTORAL RESEARCH TRAINING?

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

[www.training.nih.gov](http://www.training.nih.gov)

*NIH is dedicated to building a diverse community in its training and employment programs.*

Cancer **MR POSTDOCTORAL POSITIONS** available immediately for NMR Spectroscopists/Biochemists/Physiologists/Molecular Biologists. Projects involve studying vascularization/metabolism of human breast and prostate cancer xenografts with potential for molecular imaging/clinical applications. Knowledge of MR spectroscopy/imaging desirable but not essential. Instruments include 11.7T, 9.4T, 4.7T experimental spectrometers and 2T clinical systems. To apply, send résumé and three letters of recommendation to: **Z. M. Bhujwalla, Department of Radiology, The Johns Hopkins University School of Medicine, Traylor 208C, 720 Rutland Avenue, Baltimore, MD 21205. E-mail: [zaver@mri.jhu.edu](mailto:zaver@mri.jhu.edu). Equal Opportunity/Affirmative Action Employer.**

**POSTDOCTORAL POSITION** available to study thermodynamics, kinetics, and structure of protein nucleic-acid interactions in solution, particularly DNA polymerases and helicases. Experience in enzyme kinetics, physical biochemistry, and fluorescence spectroscopy preferred. Laboratory is equipped with state-of-the-art steady-state, lifetime, stopped-flow spectrofluorometers and rapid quench-flow instruments. Competitive salary. Interested, qualified individuals should send current curriculum vitae and three reference letters to: **Dr. W. M. Bujalowski, Department of Human Biological Chemistry and Genetics, The University of Texas Medical Branch at Galveston, Galveston, TX 77555-1053. UTMB is an Equal Employment Opportunity/Affirmative Action Employer; Male/Female/Veterans/Disabled. UTMB hires only individuals authorized to work in the United States.**

**POSTDOCTORAL POSITION**, one year, available to study phylogenetic relationships within the *Violaceae* (*Asteraceae*) using DNA/RNA sequencing and analysis using phylogenetic algorithms. Minimum qualifications: Ph.D. in systematics and experience with plants in PCR and sequencing and data analyses. Minimum stipend: \$30,000 full-time. Send application; curriculum vitae; publications; and names and addresses (including e-mail and telephone) for three references to: **Sterling C. Keeley, Department of Botany, University of Hawaii, 3190 Maille Way, Honolulu, HI 96822. Inquiries to e-mail: [sterling@hawaii.edu](mailto:sterling@hawaii.edu); FAX: 808-956-3923. Closing date: January 30, 2001.**

## ANNOUNCEMENTS

### CHEMICAL AND PHYSICAL BIOLOGY Now Accepting Applications for Fall 2001 Vanderbilt University

Vanderbilt University announces a new program in chemical and physical biology. The CPB Program is a Ph.D. track, multidisciplinary graduate program seeking students who have earned undergraduate degrees in the quantitative and/or physical sciences (e.g., chemistry, computer science, engineering, mathematics, or physics) and who wish to pursue graduate research at the interface of the chemical, physical, and biological sciences.

The curriculum will prepare students for research careers at the chemistry-biology interface, in structural biology, in molecular biophysics, or in computational biology. This program is designed to meet the needs of graduates in the quantitative sciences who are interested in these emerging areas of modern biological research.

Website: [http://medschool.mc.vanderbilt.edu/bret\\_cpb](http://medschool.mc.vanderbilt.edu/bret_cpb). Please contact our office for more information; 506 Light Hall, Nashville, TN 37232-0301.

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS CANCER BIOLOGY

Postdoctoral positions are available to study the BRCA1, BRCA2, and ATM tumor suppressor signaling networks that maintain the human genome. We have recently identified many components of these networks (see *Genes and Dev.* 14:927-939, 2000; *Science* 286:1162-1166, 1999). We are now in a position to understand the function. Candidates with experiences in functional analysis of gene products, DNA damage response, or transcriptional regulation should send curriculum vitae and three letters of reference to: **Dr. Jun Qin, Department of Biochemistry and Molecular Biology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030.**

Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.

## FELLOWSHIPS

### ANNOUNCING NEW PROGRAM: PROGRAM IN MATHEMATICAL AND COMPUTATIONAL NEUROSCIENCE

Boston University  
Codirectors: Howard Eichenbaum  
and Nancy Kopell

A newly created program supported by an award from the Burroughs Wellcome Fund has **PREDOC-TORAL** and **POSTDOCTORAL POSITIONS** available over the next year. These positions are designed to facilitate the transition of a small and outstanding set of Predoctoral and Postdoctoral Fellows from the mathematical and physical sciences to a range of areas in neuroscience. The program features special seminars, mentoring by more advanced students, and a dynamic and well-networked intellectual life provided by multiple supporting institutional modules. Predoctoral Fellows will enroll in one of two Ph.D. programs that focus on the combination of experimental and computational neuroscience. Burroughs Wellcome Postdoctoral Fellows will design individualized programs that include neuroscience courses and one or more research projects that emphasize combined computational and experimental approaches to neuroscience. In addition, all Fellows may participate in the Center for BioDynamics (CBD; website: <http://cbd.bu.edu/>), which helps Physical Scientists and Engineers to address research problems at the interfaces among mathematics, physics, biology, and engineering.

For further information, see our website: [PMCN.bu.edu](http://PMCN.bu.edu) and/or e-mail: [pmcn@bu.edu](mailto:pmcn@bu.edu).

### ENVIRONMENTAL SCIENCE PROGRAM FELLOWSHIP Global and Regional Air Program New York City, New York

Environmental Defense, a national not-for-profit research and advocacy organization, seeks an early-career **Ph.D. SCIENTIST** for a newly created one-year Fellowship with the possibility of renewal for the second year. We are seeking expertise in atmosphere-biosphere interactions with emphasis on transport and deposition of sulfur and nitrogen compounds, mass budgets, or climate change. The Fellow's primary responsibilities will be to apply research to problems of environmental policy and to build relationships among the environmental community, academic community, business, and government. Salary: \$35,000 per year. The successful candidate will work from the newly renovated Environmental Defense office in New York City. Send curriculum vitae, cover letter, and contact information for three references to:

Cheryl Pickard  
Manager of Recruiting  
Environmental Defense  
1875 Connecticut Avenue, N.W.  
Washington, DC 20009

E-mail: [Cpickard@environmentaldefense.org](mailto:Cpickard@environmentaldefense.org)  
Website: [www.environmentaldefense.org](http://www.environmentaldefense.org)

## POSITIONS OPEN

### POSTDOCTORAL FELLOW MOLECULAR ONCOLOGY University of Pittsburgh Medical Center/Children's Hospital of Pittsburgh

Immediate opening for an NIH-funded Postdoctoral Fellow to study members of the myc oncoprotein family. We are particularly interested in the molecular basis by which these proteins participate in the control of the cell cycle, apoptosis, and maintenance of genomic integrity. We are also interested in the use of DNA microarray technology to identify novel transcriptional targets for myc proteins. The applicant should be familiar with basic techniques in cell and molecular biology including mammalian tissue culture. DNA cloning and sequencing, recombinant protein expression and purification, and yeast two-hybrid assays. Experience in bioinformatics would be a plus. U.S. citizenship or permanent residency status is also highly preferred. Please send curriculum vitae to: **Edward V. Prochownik, M.D., Ph.D., Hematology/Oncology, Children's Hospital of Pittsburgh, 3705 Fifth Avenue, Pittsburgh, PA 15213. Telephone: 412-692-6797; FAX: 412-692-5723; e-mail: [edward\\_prochownik@poplar.chp.edu](mailto:edward_prochownik@poplar.chp.edu).**

## EUROPEAN OPPORTUNITIES

**POSTDOCTORAL POSITION** in molecular biology at the Center for Genomics Research (CGR), Karolinska Institutet in Stockholm, Sweden. *C. elegans* is used as a model organism to study the function of novel types of neuronal receptors. Applicants with a strong background in molecular biology and experience in techniques such as GFP fusion, RNAi, or genomic knockouts are welcome to submit an application and curriculum vitae with references to: **Dr. Ana Vaz Gomes, CGR, Karolinska Institutet, S-171 77 Stockholm, Sweden. E-mail: [Ana.Vaz.Gomes@cgr.ki.se](mailto:Ana.Vaz.Gomes@cgr.ki.se) or [Erik.Sonnhammer@cgr.ki.se](mailto:Erik.Sonnhammer@cgr.ki.se); website: [www.cgr.ki.se](http://www.cgr.ki.se).**

**POSTDOCTORAL POSITION** in computational biology at the Center for Genomics Research, Karolinska Institutet in Stockholm, Sweden. We are seeking a Postdoctorate that can develop new algorithms and methods for analyzing genome sequences and protein families. Applicants with experience in computational biology and statistical modeling are welcome to submit an application and curriculum vitae to: **Dr. Erik Sonnhammer, CGR, Karolinska Institutet, S-171 77 Stockholm, Sweden. E-mail: [Erik.Sonnhammer@cgr.ki.se](mailto:Erik.Sonnhammer@cgr.ki.se); website: [www.cgr.ki.se](http://www.cgr.ki.se).**

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