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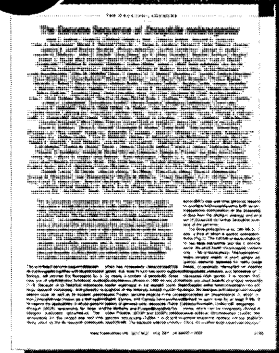
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*SOURCE: Science Watch, ISI's Hot Papers Database, Jan./Feb. 2001; papers measured for the period Sept.-Oct. 2000.

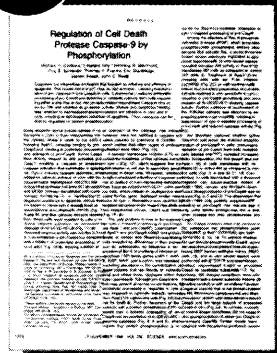
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#1



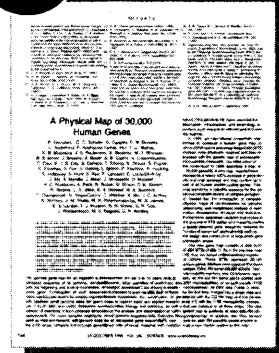
40 CITATIONS
M.D. Adams, et al., "The genome sequence of *Drosophila melanogaster*," *Science*, 287(5461):2185-95, 24 March 2000.

#3



35 CITATIONS
M.H. Cardone, et al., "Regulation of cell death protease caspase-9 by phosphorylation," *Science*, 282(5392):1318-21, 13 November 1998.

#4



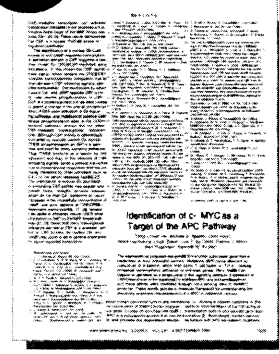
34 CITATIONS
P. Deloukas, et al., "A physical map of 30,000 human genes," *Science*, 282(5389):744-6, 23 October 1998.

#6



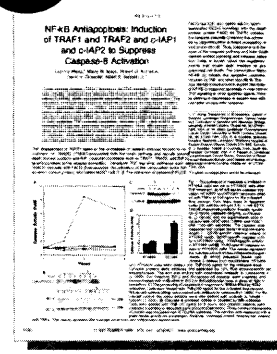
33 CITATIONS
A. Pollara, et al., "Defective LPS signaling in C3H/HeJ and C57BL/10ScCr mice: Mutations in *Tlr4* gene," *Science*, 282(5396):2085-8, 11 December 1998.

#8



29 CITATIONS
T.-C. He, et al., "Identification of c-MYC as a target of the APC pathway," *Science*, 281(5382):1509-12, 4 September 1998.

#9



29 CITATIONS
C.-Y. Wang, et al., "NF- κ B antagonizes induction of TRAF1 and TRAF2 and c-IAP1 and c-IAP2 to suppress caspase-8 activation," *Science*, 281(5383):1680-3, 11 September 1998.

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POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS MOLECULAR GENETICS OF DIABETES

National Institutes of Health
Phoenix, Arizona

The Clinical Diabetes and Nutrition Section of the National Institute of Diabetes and Digestive and Kidney Diseases located in Phoenix, Arizona, is seeking Postdoctoral Scientists. Two Fellowships are available immediately. Candidates must have either a Ph.D. or an M.D. with significant experience in molecular genetics/biology, gene expression, and/or diabetic physiology. The recipients will work towards identifying novel genes that predispose Pima Indians to Type 2 diabetes. Please send curriculum vitae and statement of research interests to: **Leslie Baier, Ph.D., NIDDK, NIH, 4212 North 16th Street, Phoenix, AZ 85016. FAX: 602-200-5225; e-mail: Lbaier@phx.niddk.nih.gov.**

RESEARCH TRAINING IN THE BIOLOGY OF AGING AND AGE-RELATED DISEASES

Two POSTDOCTORAL FELLOWSHIPS are available at the University of Wisconsin—Madison. Funded by the National Institute on Aging, the training program focuses on basic mechanisms of aging, preventive interventions, and clinical problems encountered by older adults.

Training is available in the following areas: mitochondrial DNA abnormalities (**Aiken**); lipoprotein metabolism (**Attie**); the aging serotonergic system (**Behan**); osteoporosis (**Binkley, Drezner**); muscular aging (**Carter, Schultz**); iron metabolism (**Eisenstein**); oxidative stress (**Ji, Oberley, Weindruch**); energy metabolism (**Kemnitz, Schoeller**); molecular aspects of neurodegeneration (**Kiessling**); Alzheimer's disease (**Malter**); ocular disease (**Mares-Perlman**); glutathione metabolism (**Mulcahy**); immune response (**Muller, Watkins**); gene expression (**Prolla, Weindruch**); energy metabolism (**Ramsey**); swallowing (**Robbins**); caloric restriction (**Weindruch**); and prostate cancer (**Wilding**).

To apply, submit the following by July 1, 2001: letter stating research interests, curriculum vitae, transcripts of all college coursework (copies acceptable), GRE and/or MCAT scores, and three letters of recommendation. Send to: **Dr. Richard Weindruch, c/o Kay Smith, Institute on Aging, University of Wisconsin—Madison, 1300 University Avenue, Room 2245, Madison, WI 53706. Telephone: 608-262-1818.**

The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer. Must be a U.S. citizen or permanent resident.

POSTDOCTORAL TRAINING IN VIROLOGY

This NIH-sponsored program offers training in a wide variety of areas of virology including DNA tumor viruses, animal and human herpes viruses, retroviruses (including HIV), and rabdo and corona viruses. The disciplines involved in these studies include molecular biology, structural biology, and immunology. Our website: <http://www.med.upenn.edu/~micro/training.html> describes the research interests of the primary trainers in the program.

Positions are open immediately for Ph.D. graduates and for those who expect to graduate in the next six months. Applicants must be American citizens or permanent residents. Interested candidates should send curriculum vitae and names of three references to: **Dr. Nigel W. Fraser, Program Director, Department of Microbiology, 319 Johnson Pavilion, University of Pennsylvania Medical Center, Philadelphia, PA 19104-6076. FAX: 215-898-3849; e-mail: nfraser@mail.med.upenn.edu.** *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Women and minorities are urged to apply.*

POSITIONS OPEN

POSTDOCTORAL POSITIONS

The University of Texas
Health Science Center at Tyler

The Biomedical Research Departments at the University of Texas Health Science Center at Tyler are actively recruiting Postdoctoral Scientists. The basic research faculty comprises a small but active group of approximately 25 Scientists with extensive extramural funding. Research laboratories are housed in a modern facility with state-of-the-art equipment. Together these provide an invigorating environment for postdoctoral training. Current recruiting efforts are directed towards individuals with an interest in one of the following ongoing research projects: regulation of blood coagulation (e-mail: **Pierre.Neuenschwander@uthct.edu**), tissue factor and factor VII (e-mail: **Vijay.Rao@uthct.edu**), role of CD8⁺ CTLs in *Chlamydia* infections (e-mail: **bwizel@uthct.edu**), oxidative DNA damage/base excision repair/mutagenesis (e-mail: **zafer.hatahet@uthct.edu**), factor VIIa-protease signaling (e-mail: **Usha.Pendurthi@uthct.edu**), complement immunobiology (e-mail: **Michael.Pangburn@uthct.edu**), signal transduction (e-mail: **Hua.Tang@uthct.edu**), role of macrophage SP-A receptor in TB phagocytosis (e-mail: **Zissis.Chroneos@uthct.edu**), and atypical mycobacteria (e-mail: **Richard.Wallace@uthct.edu**).

Tyler is situated approximately 100 miles east of the Dallas/Fort Worth metroplex amid the lakes and piney woods of East Texas and provides excellent quality of life. More information about the Institution and the city can be obtained at website: www.uthct.edu.

Interested candidates should submit current curriculum vitae and names and addresses of three references to the person indicated. *Equal Employment Opportunity/Affirmative Action Employer; Minorities/Females/Veterans/Disabled. Applications are strongly encouraged from minorities and women.*

POSTDOCTORAL POSITIONS MOLECULAR IMMUNOLOGY AND ONCOLOGY

Two positions are available to study immune effector mechanisms against cancer and to investigate strategies to enhance antibody-mediated immunotherapy. One project involves the study of ADCC and complement-associated, cell-mediated effector functions. Second project involves design, production, and characterization of novel recombinant antitumor fusion proteins. A third project in structural biology investigates the molecular interaction between complement inhibitors and their ligands.

This is a productive and well-funded laboratory at the Medical University of South Carolina. MUSC has a growing reputation as a center for research and there is strong institutional commitment, particularly with regard to development and expansion in cancer research. The campus is located in downtown Charleston, a very attractive historical city on the Atlantic coast that offers exceptional cultural and recreational activities.

Curricula vitae and references to: **Dr. Stephen Tomlinson; e-mail: tomlinss@muscc.edu; FAX: 843-792-2464.**

POSTDOCTORAL POSITION in molecular neuroscience to study the role of microtubule-associated protein tau in axonal development and in neurodegenerative diseases. Our program focuses on the structure and function of tau, including its interactions with nonreceptor tyrosine kinases and its role in signal transduction in neuronal cells. Applicant should have a strong background in biochemistry, structural biology, cell biology, and/or molecular biology. For a relevant publication, see website: <http://www.biologists.com/JCS/111/21/jcs7282.html>. Please send curriculum vitae and the names of three references to:

Dr. Gloria Lee
Department of Internal Medicine
University of Iowa College of Medicine
51 Newton Road, Room BSB 1-632
Iowa City, IA 52242
E-mail: gloria-lee@uiowa.edu

And Now for Something Completely Different

SHOULD YOU FOLLOW THE TREND OF CHOOSING A POSTDOCTORAL RESEARCH PROJECT IN A SUBDISCIPLINE OF LIFE SCIENCE DIFFERENT FROM THAT OF YOUR PH.D. TOPIC? HERE'S SOME GUIDANCE ON THE PROS AND CONS.

Whether they work in academe, industry, or government, life scientists today are expected to function in multidisciplinary environments. Several employers now favor individuals who have made themselves multidisciplinary by doing their postdoctoral research in a subdiscipline or discipline different from that in which they obtained their Ph.D. Thus, scientists about to apply for postdoctoral fellowships must decide whether shifting fields represents a useful career move.

The decision isn't easy. On the one hand, changing course gives individual scientists the chance to learn new skills and to become more well rounded, intellectually agile, and generally employable. It should also create a personal reservoir of broad-spectrum thinking that can prove beneficial in later professional life. On the other hand, the move to a new subdiscipline will almost certainly slow down a scientist's productivity over the short term. Shifting to a subject distant from the Ph.D. specialty may reduce an individual's ability to contribute to his or her laboratory for a significant period of time. That can detract from the scientist's ability to obtain research funding and appropriate jobs.

Students don't have to make the decision in isolation. Most academic departments readily offer advice to individuals willing to seek it. Here we discuss the pros and cons of shifting disciplines with representatives from two medical schools and a government laboratory. **BY PETER GWYNNE**

Argonne National Laboratory University of Texas Medical Branch Yale University School of Medicine

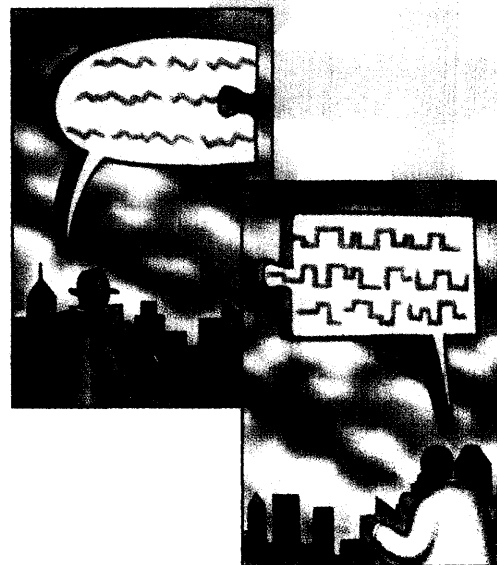


JAMES HALPERT

GALVESTON, Texas: "Many of my 20 postdocs over the years got their Ph.D.s in molecular biology," says James Halpert, who chairs the department of pharmacology and toxicology at the University of Texas Medical Branch. "Life scientists especially see pharmacology and toxicology as ports of entry to the pharmaceutical industry. People with Ph.D.s in chemistry and microbiology also move into pharmacology and toxicology and stay there because of the job opportunities they offer."

As Halpert sees it, changing subdisciplines for postdoctoral work has many more positives than negatives. "It's a way to learn a lot of new skills and concepts," he says. "It also gives you a way to prove yourself a second time around. And if your Ph.D. project does not go well through no fault of yours, a postdoc in a different discipline gives you the chance to start again."

Halpert views the situation from the point of view of an employ-



er as well as that of a faculty adviser. "When we're interviewing people for tenure-track faculty positions, we really like the people who have done high quality work for a Ph.D. and then different high quality work for the postdoctoral fellowship," he says. "That shows that they have what it takes." That view isn't restricted to the academic world.

"In industry, people often work in multidisciplinary teams and move from one topic to another," Halpert continues. "Industry really prizes the ability to speak in several different scientific languages and get up to speed rapidly in new topics."

Prospective postdocs should take care not to move too far across the scientific spectrum. "I would encourage people not to change so drastically that they have no benefit from what they learned in their Ph.D.s," Halpert says. "I'm looking for Ph.D.s to bring things to my lab. Moving too far away means that you won't have much to contribute."

You don't have to decide alone whether and how far to move from your original discipline. "There are lots of places to get advice," Halpert says. "We have a graduate student organization. And I welcome any Ph.D. working in my department who wants advice from me. The most flattering thing that can happen is for a young person to ask about your experience when you were his or her age." His general advice: "Know what you're really interested in and like to do. Know what you can contribute. And know your weaknesses, including those you want to and can shore up."



STATE UNIVERSITY OF NEW YORK

POSTDOCTORAL POSITIONS

The following postdoctoral positions are anticipated for Spring/Summer 2001.

Camille and Henry Dreyfus Foundation Postdoctoral Fellowship in Environmental Chemistry;
Robert C. Aller, Marine Sciences Research Center
(www.msrc.sunysb.edu)

Modeling oceanic food webs and export fluxes: carbon cycle implications;
Robert A. Armstrong, Marine Sciences Research Center

Structure and function of lipid rafts and caveolae;
Deborah A. Brown, Biochemistry and Cell Biology

Pathogenic mechanisms of HIV and other retroviruses;
Carol A. Carter, Molecular Genetics and Microbiology

Polyelectrolyte complexes, vesicles, membranes, nanostructured materials, colloids, DNA electrophoresis and fibers;
Ben Chu, Chemistry/Materials Science and Engineering

Plant-pathogen interactions;
Vitaly Citovsky, Biochemistry and Cell Biology

Cell wall biogenesis in yeast and pathogenic fungi;
Neta Dean, Biochemistry and Cell Biology

Relationship of foraging strategy and social behavior in western lowland gorillas;
Diane M. Doran, Anthropology

Coastal Oceanography: Multibeam mapping in coastal waters;
Roger D. Flood, Marine Sciences Research Center

Microarray analysis and cell cycle control in yeast;
Bruce Futcher, Microbiology and Molecular Genetics

Computational Applied Mathematics: Fluid dynamics;
James Glimm, Applied Mathematics and Statistics

Inorganic Chemistry: Use of solid state NMR to investigate catalyst structure and reactivity;
Clare P. Grey, Chemistry

Molecular Carcinogenesis: Mutagenesis and DNA Repair;
Arthur Grollman, Pharmacology
(www.pharm.sunysb.edu/faculty/grollman/)

Role of glycosylation in regulation of Notch signaling pathway;
Robert S. Haltiwanger, Biochemistry

Polymer crystallization, nanoparticles, nanocomposites, biodegradable polymers, nanofibers/nonwoven membranes and biomineralization;
Benjamin Hsiao, Chemistry

Signal Transduction: Molecular Mechanism of Wnt signaling in Embryo Development;
Jen-Chih Hsieh, Biochemistry and Cell Biology

Mass Spectrometry: MALDI/TOF analysis of modified oligonucleotides;
Charles R. Iden, Pharmacological Sciences

Biochemical and Structural Studies of RNA-Protein Interactions;
Wali Karzai, Biochemistry

Developing Virtual Colonoscopy for Cancer Screening;
Arie E. Kaufman, Computer Science

G protein-coupled receptors/regulation of yeast morphogenesis;
James Konopka, Molecular Genetics and Microbiology

Glycoproteins: Biosynthesis, Folding, and Catabolism in Yeast;
William J. Lennarz, Biochemistry and Cell Biology

Algorithms for Automated Morphometry of Dendritic Spines;
Brent Lindquist, Applied Mathematics and Statistics

Neuroanatomy/Behavioral Neuroscience: Circadian rhythm and subcortical visual systems;
L.P. Morin, Psychiatry

Molecular Biology of Chemical Mutagenesis and DNA repair;
Masaaki Moriya, Pharmacology

Biological Chemistry: Bio-organic chemistry of fertilization and enzymology;
Nicole S. Sampson, Chemistry

Visual/thalamic processing using single-cell recording techniques;
S. Murray Sherman, Neurobiology and Behavior

Medicinal Chemistry: Silicon-based enzyme inhibitor synthesis and testing;
Scott M. Sieburth, Chemistry

Microbial pathogenesis: Pilus biogenesis by uropathogenic *Escherichia coli*;
David G. Thanassi, Center for Infectious Diseases

Enzyme inhibition: Design, synthesis, and evaluation of anti-tubercular compounds;
Peter J. Tonge, Chemistry

Cell and Molecular Biology of Atherosclerosis and Lipoprotein Receptors;
David L. Williams, Pharmacological Sciences

Science of Nanotechnology: Applications in Physics, Chemistry, and Biology;
Stanislaus S. Wong, Chemistry

Extracellular matrix signaling and regulation of proteolysis;
Jiahua Xu, Dermatology

NOTE—The following position descriptions are for postdoctoral positions covered by a Diabetes and Metabolic Diseases Research Center fellowship. It is crucial that applicants to any of the following positions refer to the "DMDRC fellowship," as well as the specific researcher, in their letters of application:

Membrane fatty acid transporters;
Nada Abumrad

Proteases and endothelial cell pathology;
Wadie Bahou

Ras signaling and growth control;
Dafna Bar-Sagi

Glucose regulation and counter regulation in diabetes; Eugenio Cersosimo

Molecular and cellular cardiovascular research;
Ira Cohen

Controlling protein homeostasis;
Peter Garlick

Phospholipase D and membrane vesicular trafficking; Michael Frohman

Pathogenesis of the insulin resistance and hyperlipidemia in HIV disease;
Marie Gelato

Angiogenesis, i NO, and diabetes;
Michael Goligorski

Adenylyl cyclase: isozyme-structures and selective inhibitors; Roger Johnson

G-protein-coupled receptors signaling;
James Konopka

Signaling in development; William Lennarz

GPCRs, G-proteins and insulin action;
Craig Malbon

Insulin action in muscle; Margaret McNurlan

Signal transduction by tyrosine kinases;
Todd Miller

Phospholipid and cell regulation;
Andrew Morris

3D structure of signal transduction components; Nicolas Nassar

Phospholipase regulation and polyphosphoinositide metabolism;
Mario Rebecchi

Cytokine signaling; Nancy Reich

Insulin receptor structure; Suzanne Scarlata

Neuronal-microglial interactions in the mammalian brain; Stella Tsirka

G-proteins and development; Hsien-yu Wang

Cell biology of lipoproteins and lipoprotein receptors, mechanisms of atherosclerosis;
Dave Williams

Submit résumés, indicating the name of the researcher, by May 11, 2001 to: George Meyer, Office of the President, Stony Brook University, Stony Brook, NY 11794-0701; e-mail: postdocads7@notes.cc.sunysb.edu

Stony Brook University is an Affirmative Action/Equal Opportunity Educator and Employer.



ARGONNE, Illinois: The Argonne National Laboratory offers a remarkable facility for students considering a move to a new sub-discipline. The high-brilliance X-rays from its Advanced Photon Source support basic and applied research in several areas of the physical and life sciences. "We're trying to focus our efforts on structural biology and bioinformatics in relation to the light source, which is ground zero for the largest explosion in the history of structural biology," says Lee Makowski, director of Argonne's biosciences division. "Right now we're looking for postdocs in bioinformatics and protein expression, but we need an eclectic mixture of people working on the technologies and the theoretical questions."

According to Makowski, government laboratories such as Argonne offer particularly good opportunities for new Ph.D.s to gain experience in new and different fields. "The difference here from academic labs is the huge emphasis on research groups working together on large projects," he says. "We have fostered an environment in which everyone talks. If you have communication at every level you'll bring in people whose backgrounds may not be directly to the point, but you can bring them into the focus of the lab's main work very quickly."

Makowski himself provides an example of the value of multidisciplinary. "My Ph.D. is in electrical engineering, but I did a postdoc in



LEE MAKOWSKI

structural biology and then became a faculty member in biochemistry," he recounts. "I've done research in medical schools, private universities, public universities, and government agencies. What is fun is walking into an entirely new field, identifying the burning questions, and using your talents to take a whack at them."

Shifting fields has pluses and minuses. "One disadvantage is that your immediate productivity will be slower. If you're highly impatient you could easily get frustrated," says Makowski. "The advantage is the breadth of vision that you will eventually acquire. Moving from one discipline will give you a long-term advantage but it could be a short-term disadvantage."

Where can soon-to-be Ph.D.s get the best suggestions on the subject in which to pursue their postdoctoral studies? "For everything that the web brings you, talking to graduate students in areas really different from yours is hugely important," says Makowski. "So is talking to faculty, but you should remember that faculty give the best and the worst advice." As to the criteria for the decision, he adds, "Tackling the burning questions is important, but also try to do something that looks like fun."



STEVEN HEBERT

NEW HAVEN, Connecticut: A significant number of the postgraduate fellows in the department of cellular and molecular physiology at Yale University School of Medicine trained in disciplines outside physiology. "Their original fields vary from clinical health sciences to biochemistry to physics," says department chairman Steven Hebert. In the next few years, he adds, "There will be increasing opportunities for postdoctoral trainees to expand within their own fields or to move into different fields."

Hebert approves of the trend for two main reasons. "First," he says, "problems that scientists address today are complex. One must really bring in a multidisciplinary approach not only to the biological sciences but also in many cases to the physical sciences. In the biological sciences that is best exemplified by the recent emphasis on biomedical engineering. A new Biomedical Engineering Institute has just been formed at the National Institutes of Health and several universities, including Yale, are expanding their programs in biomedical engineering. To address those questions you have to bring in a multidisciplinary team."

In addition, Hebert asserts, training in more than one discipline

can improve young scientists' prospects of building productive careers. "If you look at people who have done well in science you'll see that they have taken advantage of opportunities to learn about other fields," he says. "They can eventually apply the information that at first blush appears **divergent** to bring significant fruit in their investigations. Many investigators have insights perhaps five years down the road from **divergent work** that they did."

The traditional **system of unidimensional training** still has advantages. "In the past, postdocs have put the blinders on and have not strayed far from their original fields. That approach gives them a well-defined track record in published papers and has generally played **well** for funding," says Hebert. "But questions arise if postdocs become too diverse: Can they get funding? And can they be **viable candidates** for academic programs? Those are difficult issues. If you poll chairs across the country, you would get a variety of opinions."

Students can obtain help before deciding on the direction of their postdoctoral research. "In our program and universitywide at Yale we introduce people to leaders in the pharmaceutical and biotechnology industries," says Hebert. "We also have a monthly lunch at which individuals talk about life in industry. That helps students to understand the type of training they need for their chosen careers." ■

For further valuable career features, go to **sciencecareers.org**, then click on **Advice and Perspectives**.

This is the first of two articles this year on postdoctoral opportunities. The second will appear in the 7 September issue of *Science*.

MULTIPLE POSTDOCTORAL POSITIONS
Department of Biochemistry,
Molecular Biology, and Cell Biology
Northwestern University- Evanston Campus

The following faculty have positions open immediately:

Cell and Molecular Biology- Erwin Goldberg, Linda Hicke, Robert Lamb, and Richard Morimoto

Genetics and Developmental Biology- Gregory Beitel and Carole LaBonne

Molecular Endocrinology- Daniel Linzer and Kelly Mayo

Structural Biology, Biochemistry, and Biophysics- Theodore Jardetzky, Robert MacDonald, Andreas Matouschek, Alfonso Mondragón, and Amy Rosenzweig

The department provides state-of-the-art research space and facilities for basic research and fosters cooperative interactions with other Northwestern life scientists as well as with researchers at nearby Evanston Hospital. Departmental facilities include those for microscopy (EM, STEM, SEM, confocal, atomic force, fluorescence), DNA sequencing, protein crystallography, and development of transgenic mice. Additional research resources are available through participation in shared facilities including the Advanced Photon Source at nearby Argonne Nat'l Laboratories and the Keck Biophysics Facility. Northwestern's Evanston campus is conveniently located 12 miles north of Chicago.

Individual faculty research interests can be found at <http://www.biochem.northwestern.edu/fac-staff.html>. Send CV and the contact information for 3 references directly to each researcher at: Dept. of Biochemistry, Northwestern University, 2153 N. Campus Drive, Hogan 2-100, Evanston, IL 60208-3500.

THE UNIVERSITY OF IOWA
PAIN RESEARCH PROGRAM

Multiple positions are available for **postdoctoral research scholars** interested in independent, as well as collaborative research in the neurobiology of pain and pain modulation. This program is comprised of six NIH-funded investigators and emphasizes a multidisciplinary collaborative approach that employs a wide range of methodologies including behavioral pharmacology, electrophysiology, neurochemistry, molecular biology and anatomy. One position is available with **Dr. Tim Brennan** to study postoperative pain mechanisms; in particular, the causes of primary afferent neuron sensitization and changes in spinal cord processing caused by incisions. Experience in neurophysiology or immunohistochemistry is preferred, but not required. One position is available with **Drs. Gerald Gebhart** and **Klaus Bielefeldt** for an individual with experience or interest in studying the role and modulation of sodium and other currents in identified visceral sensory neurons that contribute to peripheral mechanisms of hyperalgesia. Experience with patch clamp recording techniques is desired. Two positions are available with **Dr. Herbert Proudfit** to study the neural circuitry and synaptic plasticity of brainstem pain modulatory pathways. Experience or interest in single unit extracellular recording, immunohistochemistry at the light or EM levels, or the assessment of drug effects on pain behaviors is desired. Two positions are available with **Dr. Donna Hammond** to study how injury and persistent pain alter the pharmacology and physiology of brainstem pain modulatory pathways and to study the spinal mechanisms of neuropathic pain. Experience or interest in patch clamp recording techniques, immunohistochemistry, molecular biology as applied to systems neuroscience, or assessment of pain behaviors is desired. One position is available with **Dr. Kathleen Sluka** to study the neurobiology of chronic muscle pain or the neurobiology of electrical stimulation analgesia (TENS). Experience or interest in microdialysis, single unit electrophysiology or assessment of pain behaviors is desirable. Candidates should have a M.D. or Ph.D. in a relevant discipline. For consideration email your curriculum vitae, a description of research accomplishments, and a statement that indicates the positions in which you are interested to: donna-hammond@uiowa.edu. *The University of Iowa is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

Postdoctoral Opportunities

The Wadsworth Center, a research-intensive public health laboratory, provides a unique and dynamic training environment. Basic and applied research at Wadsworth focuses on molecular genetics, structural and cell biology, neuroscience, immunology and infectious disease, biological imaging, and environmental science. Enhancing this environment are state-of-the-art core facilities, broad-based graduate programs, and new initiatives in bioinformatics, genomics, nanobiotechnology, and integrated clinical sciences. Immediate openings are available with the following investigators:

Marlene Belfort - *Dynamics of mobile self-splicing introns*

M. Joan Curcio - *Retrotransposons and genome evolution in yeast*

Keith Derbyshire - *Bacterial transposition and molecular genetics of mycobacteria*

Steven Hanes - *Prolyl-isomerases in transcription and cell cycle*

Liaquat Husain - *Heterogeneous sulfur dioxide oxidation in clouds and fog*

Michael Koonce - *3D structure of dynein*

David Lawrence - *Neuroimmunology and toxicology*

Laura Kramer - *Arboviral fitness and genetic changes during host-switching*

David LeMaster - *Chemical enzymology of protein thiol transfer*

Kathleen McDonough - *Molecular and cellular pathogenesis of Tuberculosis*

Anne Messer - *Gene therapy for neurological diseases*

Brian Pentecost - *Estrogen receptor-associated peptides and breast cancer*

Conly Rieder - *Mechanisms of mitosis and cell cycle progression*

Patrick Van Roey - *Crystallographic studies of protein-DNA and protein-carbohydrate interactions*

Jonathan Wolpaw - *Activity-dependent spinal cord plasticity/ Brain-computer interfaces for communication and control*

To apply, send a letter indicating the investigator(s) you are interested in, a CV, and three letters of reference to:

Dr. Donal Murphy, Research Office
Wadsworth Center
New York State Department of Health
PO Box 509, Albany, NY 12201-0509
murphy@wadsworth.org

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New York State Department of Health

POSITIONS OPEN

POSTDOCTORAL POSITION GENE REGULATION DURING DEVELOPMENT

Department of Biochemistry and
Molecular Biology
University of Texas M.D. Anderson
Cancer Center, Houston, Texas

Postdoctoral positions are available in the laboratory of **William Klein, Ph.D.**, to investigate the regulation of gene expression in cell differentiation during embryogenesis. Three related projects are currently under investigation. The first concerns the differentiation of retinal ganglion cells in the mouse embryo and the role of the POU domain *Brn-3* transcription factors. This project makes use of genetically engineered mice and gene expression profiling using high-density microarrays generated from a retinal expressed sequence database. The second project addresses the function of the myogenin bHLH factor myogenin in mouse skeletal muscle development. This project makes use of conditional alleles of myogenin to determine its role in adult muscle formation and embryonic stem cell differentiation to identify unique functional features within myogenin's sequence. The third project investigates the early events that set up the embryonic axes during sea urchin development. This project involves identifying novel transcription factors that play roles in repressing gene expression in restricted regions of the embryo.

Interested applicants should contact:

William Klein, Ph.D.
Department of Biochemistry and
Molecular Biology, Box 117
University of Texas M.D. Anderson
Cancer Center
1515 Holcombe Boulevard
Houston, TX 77030
E-mail: wklein@mdanderson.org

MDACC is an Equal Opportunity Employer/smoke-free environment. Women and minority candidates are encouraged to apply.

POSTDOCTORAL POSITIONS Molecular Microbiology and Microbial Pathogenesis

Postdoctoral positions funded by an NIH training grant are available at the University of Colorado Health Sciences Center with starting dates up to January 1, 2002. All applicants must be U.S. citizens or permanent residents. Training on molecular mechanisms of bacterial infections, viral infections, innate immunity, and cytokine biology is available with members of the training program faculty. Candidates with a Ph.D. or an equivalent Doctoral degree in basic science must have experience in microbiology, bacteriology, virology, immunology, molecular biology, genetics, biochemistry, cell biology, or a closely related field. Candidates with an M.D., D.O., D.V.M., or an equivalent Doctoral degree in clinical science must have demonstrated interest and competency for laboratory research related to our training program. Salary is determined by years of prior postdoctoral experience. Submit curriculum vitae, bibliography, representative publications, and names of three professional references to: **Dr. Randall Holmes, Training Program Director, Department of Microbiology, Box B-175, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262.** The University of Colorado Health Sciences Center is committed to Equal Opportunity and Affirmative Action. Individuals from groups currently underrepresented in biomedical research are encouraged to apply.

POSTDOCTORAL POSITIONS available immediately to develop innovative strategies for using peptide nucleic acids and oligonucleotides to investigate cellular processes. Projects offer an exceptional opportunity at the interface of chemistry and biology. Interested candidates should send a letter and curriculum vitae to: **Dr. David Corey, Department of Pharmacology, The University of Texas Southwestern Medical Center at Dallas, Dallas, TX 75390-9041.** E-mail: corey@chop.swmed.edu. UT Southwestern is an Equal Opportunity Employer.

POSITIONS OPEN

NEUROBIOLOGY RESEARCH- TRACK AND POSTDOCTORAL POSITIONS

available immediately to study (1) synaptic integration and sensory processing in mammalian olfactory bulb and piriform cortex. Experience in optical imaging of voltage-sensitive dyes and/or patch clamping in slices required. (2) Neural circuits underlying taste analgesia. Expertise in *in situ* hybridization and/or immunocytochemistry/tract tracing required. Applicants must have a Ph.D. or M.D. Competitive salary/fringe benefits. Opportunity to interact with Neuroscientists in the Department (website: <http://neurobiology.umaryland.edu>) and the Neuroscience Program (website: <http://neuroscience.umaryland.edu/>). Send curriculum vitae and names of three references to: **Dr. M. Ennis, Department of Anatomy and Neurobiology, University of Maryland School of Medicine, 685 West Baltimore Street, Baltimore, MD 21201.** E-mail: mennis@umaryland.edu. University of Maryland is an Affirmative Action/Equal Employment Opportunity/Americans With Disabilities Act Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION Nuclear Transport

A Research Associate position is available immediately to study the mechanisms of nuclear import and export in mammalian cells. Potential projects include (1) analysis of steroid receptor transport and the regulation of transcription (*J. Cell Biol.* 152:127-140, 2001); (2) molecular analysis of transport events that occur at the nuclear pore complex (*J. Cell Biol.* 152: 141-155, 2001); (3) biochemical characterization of a new factor that regulates the nuclear GTPase Ran (*J. Biol. Chem.* 275: 23175-23180, 2000); and characterization of RNA export pathways (*Mol. Cell Biol.* 21: 2545-2554, 2001). An individual with a Ph.D. and prior experience in protein biochemistry, cell imaging, or molecular biology is preferred. The Center for Cell Signaling at the University of Virginia has outstanding facilities and an interactive research environment with laboratories investigating nuclear transport, signal transduction, and gene expression (see website: <http://www.med.virginia.edu/medicine/inter-dis/signaling/>). Send curriculum vitae, statement of professional goals, and the names and addresses of three references to: **Bryce M. Paschal, Center for Cell Signaling, P.O. Box 800577, University of Virginia Health System, Charlottesville, VA 22908-0577.** E-mail: paschal@virginia.edu. Position open until filled. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION MOLECULAR IMMUNOLOGY

Postdoctoral positions are available to study the molecular control of antigen receptor gene rearrangement and hemato-lymphoid development. Candidates with M.D. and/or Ph.D. should send curriculum vitae and names of three references to: **Dr. Ferenc Livak, Department of Microbiology and Immunology, University of Maryland School of Medicine, 655 West Baltimore Street, BRB 13-017, Baltimore, MD 21201.** E-mail: Almasy@rocketmail.com; website: <http://medschool.umaryland.edu/Microbiology/Index.html>.

POSTDOCTORAL POSITION available to study Notch signaling in hematopoiesis and leukemia (*Immunity* 11:299, *MCB* 13:273, *Nature Med.* 6:1278, *Immunity* 14:253). Experience in immunology, biochemistry, or genetics is preferred. Send curriculum vitae and names of three references to: **Dr. Warren S. Pear, Department of Pathology, University of Pennsylvania, 611 BRB/III, 421 Curie Boulevard, Philadelphia, PA 19104-6160.** FAX: 215-573-8606; e-mail: wpear@mail.med.upenn.edu. Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITIONS, Pennsylvania State College of Medicine, Hershey, Pennsylvania. The Musculoskeletal Research Laboratory, Penn State College of Medicine, has several NIH-funded Postdoctoral positions available in bone and cartilage cell biology. Faculty research interests include age-related changes in bone and cartilage cell signal transduction, gap junctional intercellular communication, mechanotransduction, membrane biophysics, bone cell differentiation, and bone metastasis. The ideal candidate would have experience in bioengineering or molecular biology and a strong interest in one of the research areas listed above. Send curriculum vitae and names of three references to: **Henry J. Donahue, Ph.D., Professor and Director, Musculoskeletal Research Laboratory, Department of Orthopaedics and Rehabilitation, The Pennsylvania State University College of Medicine, 500 University Drive, Box 850 (MC H089), Hershey, PA 17033-0850.** Telephone: 717-531-4819; FAX: 717-531-7583; e-mail: hdonahue@psu.edu. Curriculum vitae accepted until positions are filled. Affirmative Action/Equal Opportunity Employer.

COLUMBIA UNIVERSITY

Department of Electrical Engineering
Genomic Information Systems Laboratory

A RESEARCH POSITION is available for research in the area of genomic information systems. Candidates should have a Ph.D. in a field related to biological sciences and experience in quantitative research. Knowledge in traditional electrical engineering systems disciplines such as signals, control, telecommunications, and information theory is desirable. Both senior- and junior-level candidates from Postdoctoral to Research Scientist will be considered for this position.

Please e-mail curriculum vitae, brief description of research interests, and a list of three references to e-mail: anastas@ee.columbia.edu or mail to:

Professor Dimitris Anastassiou
Department of Electrical Engineering
Columbia University
500 West 120th Street
New York, NY 10027

POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS FUNCTIONAL NEUROIMAGING University of Minnesota

NIH-funded Postdoctoral/Research Associate positions available immediately for the study of the neural substrates of implicit motor learning in humans. Particular emphasis will be placed on event-related imaging approaches using high-field systems. Candidates should have a background in any of the following areas: neuroscience, psychology, computation, or physics. Send curriculum vitae and the names of three references to either: **James Ashe, Brain Sciences Center (11B), VAMC, Minneapolis, MN 55417** (FAX: 612-725-2291; e-mail: ashe@tc.umn.edu) or to **Seong-Gi Kim, CMRR, 2021 Sixth Street S.E., Minneapolis, MN 55455** (FAX: 612-626-2004; e-mail: kim@cmrr.umn.edu). Equal Opportunity Employer.

POSTDOCTORAL POSITIONS Genomic Regulation of Cell Death

Postdoctoral positions are available to study the mechanisms underlying the regulation of programmed cell death using *Drosophila* as a model system (*Molecular Cell* 6:433, 2000; *Development* 128:1443, 2000). DNA microarray and genetic approaches are used to analyze genomic responses to cell death stimuli in the context of normal and aberrant development. Send curriculum vitae and three letters of reference to: **Research Associate (R3-070), CAB, University of Maryland Biotechnology Institute, 5115 Plant Sciences Building, College Park, MD 20742.** FAX: 301-314-9075. Consideration of applications will begin May 4, 2001, and continue until the positions are filled. The University System of Maryland is an Equal Opportunity/Affirmative Action Employer.



**UNIVERSITY OF VIRGINIA
DIGESTIVE HEALTH CENTER OF
EXCELLENCE**



Post-doctoral Opportunities

The laboratory research program of the Digestive Health Center of Excellence at the University of Virginia is undergoing a rapid expansion. Several basic science postdoctoral (PhD and/or MD) positions are immediately available with the following mentors. Salary commensurate with NIH guidelines and experience.

Michael F. Smith, PhD (mfs3k@virginia.edu)

- *Molecular mechanisms of anti-inflammatory gene expression in macrophages*
- *Dysregulated gene expression and cytoplasmic signaling in gastric cancer*

Candidates should have experience in subcloning, reporter gene assays, DNA/protein interactions and/or analysis of intracellular signaling.

Steven M. Powell, MD (powell@virginia.edu)

- *Molecular alterations in the development of GI tumors.*
- *DNA detection of H. pylori.* A Ph.D. in molecular biology or related field is preferred. Experience with DNA and RNA handling is required; cloning and other molecular techniques desired.

James K. Roche, MD/PhD (jrr7m@virginia.edu)

- *Cell signaling in epithelial cell responses*
 - *Control of cytokine release from T lymphocytes through prostanoid receptors*
- Candidates should have a PhD in cell biology or related field. Experience with mouse models of human disease, cell receptors and signaling is desired.

Steven M. Cohn, MD/PhD (sc6w@virginia.edu)

- *Molecular mechanisms regulating stem cell fate and differentiation in the intestinal epithelium.*
- *Alterations in epithelial injury and repair in experimental models of inflammatory bowel disease.*

Experience in analysis of intracellular signaling and gene expression at both the protein and RNA level is preferred. Experience in the use of transgenic and/or knockout mouse model systems is desirable but not required.

Carl Berg, MD (clb7d@virginia.edu)

- *Characterization of a novel chronic murine model of hepatic steatosis and inflammatory liver disease.*
- *Characterization of mechanisms of heme transport in GI tissues using a fluorescent heme analog*

Experience with hepatocyte physiology and molecular biology preferred.

Send curriculum vitae, statement of research interests and names of three references directly to the principal investigator either by email or to: Division of Gastroenterology and Hepatology, UVa Health System, P.O. Box 800708, Charlottesville, VA 22908-0708

**Postdoctoral Training Program in Cancer Biology
Mount Sinai School of Medicine**

The Derald H. Rittenberg Cancer Center at the Mount Sinai School of Medicine seeks applicants for its Postdoctoral Training Program in Cancer Biology. This program is committed to the training of outstanding cancer biologists.

Faculty	Research Program
Stuart A. Aaronson, M.D.	Aberrant growth factor signaling in cancer; p53 cell fate decisions.
Andrew Chan, Ph.D.	Intracellular signaling defects in human cancer.
Rachel Hazan, Ph.D.	Cancer, cell adhesion, cadherins, growth factors, matrix metalloproteases, invasion, metastasis.
Marcus Kretschmar, Ph.D.	Signaling mechanisms by TGFbeta growth factor receptors in endothelial cells and tumor cells.
Jonathan Licht, M.D.	Mechanisms of aberrant transcriptional regulation in cancer.
James Manfredi, Ph.D.	Regulation of the tumor suppressor protein p53.
Mihaela Skobe, Ph.D.	Lymphangiogenesis, angiogenesis and cancer metastasis.
Toru Ouchi, Ph.D.	Molecular biology of signal transduction and functional analysis of tumor suppressor proteins.
Zhen-Qiang Pan, Ph.D.	RING finger-mediated ubiquitin-dependent proteolysis and protein modification in cancer biology.
Ze'ev Ronai, Ph.D.	Mechanisms underlying the role of stress kinases in the regulation of ubiquitination, sumoylation and apoptosis.

Postdoctoral Training Program in Cancer Biology
Derald H. Rittenberg Cancer Center, Box 1130
Mount Sinai School of Medicine
New York, New York 10029

Fax: 212-987-2240, E-mail: dhrcc-recruitment@mssm.edu

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Universität Ulm

**PhD and
Postdoctoral Positions**

Several PhD and Postdoctoral positions are available for young flexible investigators with degrees from internationally recognised universities, a deep interest in interdisciplinary research and a profound background in Chemistry, Physics, or Materials Science. The research on self organisation and artificial structuring of thin films and membranes, wetting phenomena, adsorption and crystallisation of organic molecules, chemical reactions at interfaces, micro-mechanics, lithographic patterning and curing of thin films is conducted in close collaboration between physics and chemistry groups, within the priority program "Hierarchic Structure Formation & Function of Organic-Inorganic Hybrid Systems" and the Graduate College and Marie Curie Training Site "Molecular Organisation and Dynamics at Interfaces".

Further information can be obtained at <http://www.uni-ulm.de/kolleg1/> and <http://www.uni-ulm.de/sfb569/>.

Applications should include a cover letter with curriculum vitae, copies of relevant publications, and contact information for reference and be directed to a suitable advisor chosen from the above mentioned website or to

PD Werner A. Goedel,
University Ulm, Organic and
Macromolecular Chemistry, OC3,
89069 ULM, Germany,
Tel +49-(731)-502-3470, Fax ...-3472,
e-mail:
werner.goedel@chemie.uni-ulm.de

The University of Ulm is an equal opportunity employer and welcomes applications from all qualified individuals.

Applications from equally qualified disabled candidates will be treated with priority.

Employment is through the university's central administration.

POSITIONS OPEN

The Department of Neurological Sciences at Rush-Presbyterian-St. Luke's Medical Center in Chicago is searching for several outstanding **POSTDOCTORAL APPLICANTS** for its training program in age-related neurodegenerative disorders funded by the NIA. This program is designed to offer the Ph.D. and/or M.D. specialized advanced training in the neurobiology of age-related neurodegenerative disorders with special emphasis on Alzheimer's disease (AD) and Parkinson's disease (PD). At the core of the training program are nationally recognized faculty with extensive training experience and funding histories focused on AD and PD. Applicants interested in research training positions must possess a Doctoral degree and be a U.S. citizen, noncitizen national, or permanent resident of the United States. Applicants should send a letter of intent and curriculum vitae to: **Dr. Caryl E. Sortwell, Training Program, Department of Neurological Sciences, 2242 West Harrison Street, Number 200, Chicago, IL 60612. E-mail: csortwel@rush.edu.** Rush-Presbyterian-St. Luke's Medical Center is an Equal Opportunity Employer. Minorities, women, and those with physical disabilities are especially encouraged to apply.

POSTDOCTORAL POSITIONS Emory University School of Medicine Atlanta, Georgia

Postdoctoral positions are currently available in a wide variety of biomedical research disciplines. Emory is in the top 20 medical schools nationally for federal research funding and occupies new state-of-the-art research facilities. With adjacent CDC and Yerkes, it provides a rich research environment in a lively residential area with affordable housing.

See a comprehensive listing of postdoctoral training opportunities; links to faculty research pages; and information about excellent postdoctoral benefits, services, and career workshops at **website: www.emory.edu/WHSC/MED/POSTDOC.** Office of Postdoctoral Education, Emory University School of Medicine. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION in neuroscience is available immediately to study the neuronal mechanisms underlying motor learning and memory in an *in vitro* brain stem-cerebellum preparation. The project will include intracellular recording techniques, immunocytochemistry of glutamate receptor distribution, and molecular approaches. The Neuroscience Group recently obtained a Center of Biomedical Research Excellence award, which provides for many opportunities for Postdoctoral Fellows. Information about the Group can be found at **website: www.usd.edu/neurogroup/**. Interested candidates should have a Ph.D. or M.D. and should send curriculum vitae and names of three references to: **Joyce Keifer, Ph.D., Neuroscience Group, Division of Basic Biomedical Sciences, The University of South Dakota School of Medicine, 414 East Clark Street, Vermillion, SD 57069-2390.** USD is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. The research focuses on the underlying molecular basis of the differences between cultured cells from Alzheimer's disease patients and controls. The research will make extensive use of fluorescence microscopy to examine oxidative stress, calcium, and mitochondrial membrane potentials. Protein chemistry and molecular and cellular biological methods complement the fluorescence microscopy. Contact: **Gary Gibson, Cornell Medical College at Burke Medical Research Institute. E-mail: ggibson@med.cornell.edu.**

POSTDOCTORAL POSITIONS are available to engineer proteins/enzymes and biosynthetic pathways by directed evolution for biotechnological applications. Candidates must have demonstrated expertise in molecular biology and protein biochemistry. Salary will be commensurate with experience. Send curriculum vitae and names of three references to: **Dr. Huimin Zhao, School of Chemical Science, Box C3, University of Illinois, Urbana, IL 61801. FAX: 217-333-5052; e-mail: zhao5@uiuc.edu.**

POSITIONS OPEN

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POSTDOCTORAL POSITIONS are available for the following NIH-supported research projects: (1) Molecular modeling and molecular biology of NMDA receptors. The goal of this project is to use molecular models of NMDA receptors to design receptor subtype-selective antagonists. Familiarity with UNIX and SYBYL would be useful but not necessary. Experiments also include performing site-directed mutagenesis and recombinant expression in *Xenopus* oocytes to test specific hypotheses generated by the molecular models.

(2) Growth factor modulation of synaptic transmission. The goal of this project is to identify the molecular signaling mechanisms through which insulin receptors and related receptor tyrosine kinases modulate synaptic glutamate receptors. Methods used include protein chemistry (Western blotting, phosphorylation studies, etc.); site-directed mutagenesis; hippocampal patch clamp recording; and two-electrode voltage clamping in *Xenopus* oocytes.

(3) and (4) Cell signaling in neural tube defects and atherosclerosis. The goal of these projects is to identify novel homocysteine receptors that may contribute to neural tube defects and to the development of atherosclerosis. Methods used include cell signaling assays, immunohistochemistry, and genotyping analysis.

Salary dependent upon qualifications and training. To apply, send curriculum vitae and two letters of recommendation to: **Dr. Dan Monaghan, Department of Pharmacology, 986260 Nebraska Medical Center, Omaha, NE 68198-6260.**

POSTGRADUATE TRAINING CANCER CELL BIOLOGY

The Sealy Center for Cancer Cell Biology of the University of Texas Medical Branch in Galveston, Texas, is pleased to announce the initiation of a postgraduate training program in cancer cell biology. This program will support several Investigators whose studies will focus on signal transduction and cancer. The Center's focus is on the molecular basis of colon cancer, leukemia, and skin cancer. Particular emphasis is placed upon development and exploitation of novel animal models. Please refer to **website: http://www2.utmb.edu/scceb/** for additional information. Applicants should contact: **Dr. Aubrey Thompson, Sealy Center for Cancer Cell Biology, University of Texas Medical Branch, 301 University Boulevard, Galveston, TX 77555-1048. E-mail: athompso@utmb.edu.**

UTMB is an Equal Opportunity/Affirmative Action Employer; Minority/Female/Disabled/Veteran. UTMB is a smoke-free/drug-free workplace and hires only individuals authorized to work in the United States.

POSTDOCTORAL POSITIONS: LYME DISEASE, EHRLICHIOSIS, AND IXODES SCAPULARIS Yale University School of Medicine

Positions available to study the molecular and cellular immunobiology of Lyme disease, human granulocytic ehrlichiosis. Research projects on *Ixodes scapularis*-host interactions are also available. Experience in molecular biology, microbial pathogenesis, or immunology necessary. Send curriculum vitae and research interests to: **Erol Fikrig, M.D., Yale University School of Medicine, P.O. Box 208031, New Haven, CT 06520-8031. E-mail: erol.fikrig@yale.edu.** Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITIONS Developmental and Cancer Biology

Projects are available in two areas: (1) axis determination and germ-layer formation in mouse embryogenesis (*Nature* 395:702-707, 1998; *Genes Dev.* 13:2527-253, 1999; *Nature* 403:385-389, 2000; *Trends Genet.* 16:303-309, 2000); (2) prostate development and cancer, using mouse model systems (*Genes Dev.* 13:966-977, 1999; *Genes Dev.* 14:2410-2434, 2000). Expertise in developmental and/or molecular biology is essential. To apply, please send curriculum vitae, summary of research interests, and three letters of reference to: **Michael M. Shen, Ph.D., Center for Advanced Biotechnology and Medicine, University of Medicine and Dentistry of New Jersey—Robert Wood Johnson Medical School, 679 Hoes Lane, Piscataway, NJ 08854. FAX: 732-235-5373; e-mail: mshen@cabm.rutgers.edu.** For additional information, see **website: www.cabm.rutgers.edu/shen.**

POSTDOCTORAL POSITION

A Postdoctoral position is available in a recently established cell biology laboratory on the Cambridge campus of Harvard University. The laboratory uses *Xenopus* and *Caenorhabditis* to examine regulatory pathways controlling mitosis and meiosis. Specific areas of interest include mechanisms by which DNA damage is sensed to initiate checkpoint control (see **Michael et al., Science** 289:2133, 2000); molecular mechanisms governing the switch from mitotic to meiotic cycling in germ cells; and pathways that couple mitosis to the completion of S phase (see **Michael and Newport, Science** 282:1886, 1998). To apply, please send curriculum vitae, any reprints, and contact information for three references to: **Matthew Michael, Department of Molecular and Cellular Biology, The Biological Laboratories, Harvard University, Cambridge, MA 02138. E-mail: matt@mcb.harvard.edu.**

POSTDOCTORAL POSITION University of Wisconsin

Position available immediately to investigate prolactin and growth factor interactions in the development and progression of breast cancer using unique transgenic models with a nonhormonally regulated mammary promoter and *in vitro* models with inducible prolactin to examine target genes and biologic behaviors.

Visit **website: http://www.vetmed.wisc.edu/cbs/schuler/html.** Ph.D., M.D., or D.V.M. required; experience with transgenic and/or molecular techniques desirable. Must be U.S. citizen or permanent resident. Send curriculum vitae and names of three references to: **Linda Schuler, Ph.D., Department of Comparative Biosciences, 2015 Linden Drive West, University of Wisconsin, Madison, WI 53706. E-mail: schulerl@svm.vetmed.wisc.edu.**

POSTDOCTORAL RESEARCH ASSOCIATE. Positions available to investigate enzymes involved in the degradation of aromatic compounds. Candidates should have experience in molecular biology, enzymology, kinetics, and be interested in studying enzyme mechanisms. Please respond to: **Chris Whitman, Medicinal Chemistry Division, PHR 4.220B, College of Pharmacy, The University of Texas, Austin, TX 78712.** Applications will be accepted until suitable candidates are found. The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available for research on several exciting projects related to the molecular mechanism of retroviral DNA integration and the role of host cell functions. A strong background in cellular biology and/or biochemistry is most appropriate. Openings are limited to U.S. citizens or noncitizens currently studying in the United States or Europe. Send a statement of interest, curriculum vitae, and direct three letters of recommendation to: **Dr. A. M. Skalka, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. E-mail: AM_Skalka@fccc.edu.** Equal Opportunity Employer.

UofL Health Sciences Center

Postdoctoral Positions in Spinal Cord and Head Injury Repair

The Kentucky Spinal Cord Injury Research Center (KSCIRC) at the University of Louisville School of Medicine is seeking multiple qualified postdoctoral candidates. The KSCIRC is an interdepartmental, multidisciplinary and highly collaborative group of investigators that is developing strategies for CNS repair that range from the molecular to systems analyses. The investigators and their research areas are listed below:

Evelyn Gozal - Signal transduction pathways mediating neuronal survival and brain adaptation to chronic and intermittent hypoxia; **Girish J. Kotwal** - Modulation of inflammatory response following spinal cord and head injury using vaccinia virus complement control protein; **David S.K. Magnuson** - Neuron replacement and locomotor systems in the spinal cord; **Stephen M. Onifer** - Cellular and molecular strategies for functional neuroregeneration; **Matthew Qiu** - Molecular control of motor neuron and oligodendrocyte development; **Fred J. Roisen** - Human olfactory neurosensory epithelial neural progenitors for repair of spinal cord injury; **Gregory E. Rutkowski** - Development of bioartificial devices for neural tissue replacement and repair; **Christopher B. Shields** - Acute surgical and pharmacological approaches for spinal cord repair; **Scott R. Whittemore** - Molecular and stem cell therapies for CNS repair; **Xiao Ming Xu** - Cell transplantation and neurotrophic factors in spinal cord regeneration.

Applicants should have a Ph.D. and/or M.D. degree. Send a curriculum vitae, an indication of which investigators are of greatest interest, and have at least 3 references forwarded by May 15, 2001 to: **Scott R. Whittemore, Ph.D., Department of Neurological Surgery, University of Louisville, 210 E. Gray St., Suite 1102, Louisville, KY 40202.**

The University of Louisville is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority groups.



The Center for Biologics Evaluation and Research is soliciting applications for current and future vacancies in its Service Fellowship Program. Service fellowships provide for the employment and development of promising research/regulatory review scientists to accelerate and enhance scientists' careers through close associations with leading authorities in health-related research. These fellowships also serve to strengthen the research community by assuring a continuous exchange of talent between the Center and other scientific facilities. Initial appointments are for 2 years with possible extensions up to a maximum duration of 7 years. **Qualifications:** Candidates must possess a Ph.D. or equivalent degree (e.g., MD, DVM, or ScD) in a biomedical, behavioral, or related science or have been certified by a university as meeting all the requirements leading to such a doctorate. Graduates of foreign medical schools must submit a copy of their permanent Educational Commission for Foreign Medical Graduates (ECFMG) certification. **Applicants, other than US citizens must have valid working visas.** In addition, candidates should have training and/or experience in one or more of the following or related areas: cell biology, cytokines, cytokine biology, growth factors, molecular biology, microbiology, immunology, cellular immunology, molecular immunology, immunochemistry, biochemistry, protein chemistry, protein biochemistry, and virology. Candidates should also have highly developed analytical, written and oral skills. **Location:** Offices and laboratories are strategically located on the campus of the National Institutes of Health or in close proximity. **Salary:** \$36,656 - \$114,224 plus an excellent benefits package and flexible work schedules. Salary and level of responsibility are commensurate with education, training and experience.

How to Apply: Send a current CV with letter of interest to the following address:

Food and Drug Administration
Center for Biologics Evaluation and Research
1401 Rockville Pike, HFM-123
Rockville, Maryland 20852-1448

Attn: Recruitment Staff (SCIENCE-SFP-2001)

Special Instructions: Be sure to include the following information in your letter of interest: laboratory techniques, knowledge, skills, ability and date of availability.

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Biochemistry at Vanderbilt* Postdoctoral Opportunities

Richard Armstrong

Mechanistic and Structural Enzymology, Antibiotic Resistance
r.armstrong@vanderbilt.edu

Richard Caprioli

Proteomics in Mammalian Tissues Using Mass Spectrometry
r.caprioli@mcmail.vanderbilt.edu

Graham Carpenter

Growth Factor Receptors and Signal Transduction
graham.carpenter@mcmail.vanderbilt.edu

Bruce Carter

Mechanisms of Neurotrophin Signaling/Neuronal Apoptosis
bruce.carter@mcmail.vanderbilt.edu

Walter Chazin

Structural Biology: Genetic Processes, Signal Transduction
walter.chazin@vanderbilt.edu

Fred Guengerich

Enzymology of P450s and Polymerases
guengerich@toxicology.mc.vanderbilt.edu

Scott Hiebert

Transcriptional Control in Acute Leukemia
scott.hiebert@mcmail.vanderbilt.edu

Carl Hellerqvist

Clinical Application and Biochemistry of Pathologic Angiogenesis
hellercg@ctrvax.vanderbilt.edu

Tadashi Inagami

Angiotensin Crosstalk with Phosphotyrosine Pathways
tadashi.inagami@vanderbilt.edu

Larry Marnett

Endogenous Mutagenesis, COX-2 Structure/Function
marnett@toxicology.mc.vanderbilt.edu

David Ong

Retinoid Metabolism and Function
david.e.ong@vanderbilt.edu

Neil Osheroff

DNA Topoisomerases and Topoisomerase-Targeted Drugs
osheron@ctrvax.vanderbilt.edu

Jennifer Pietenpol

p53, p63, Cell Cycle Checkpoints
pietenpol@toxicology.mc.vanderbilt.edu

Conrad Wagner

Folate; Amino-Acid; Metabolism; Methionine; Enzymology
conrad.wagner@vanderbilt.edu

Wayne Wahls

Meiosis; Recombination; bZIP Transcription Factors
wahlswp@ctrvax.vanderbilt.edu

Michael Waterman

P450 Structure and Function; Regulation
michael.waterman@mcmail.vanderbilt.edu

*WEB address:

<http://medschool.mc.vanderbilt.edu/biochemistry>

Please apply by e-mail sending CV and names of three references

Mail address: Vanderbilt Univ., 607 L.H., Nashville TN 37232-0146

POSITIONS OPEN

POSTDOCTORAL POSITION

A Postdoctoral position is available immediately to study antigen processing and presentation, T cell repertoire, and autoimmunity. Applicants should have a Ph.D. and/or M.D. and experience in cellular immunology/molecular biology (training in site-directed mutagenesis is desirable). Send curriculum vitae and three letters of reference to:

Dr. Kamal D. Moudgil, M.D., Ph.D.
Associate Professor
Department of Microbiology and Immunology
University of Maryland School of Medicine
655 West Baltimore Street
Baltimore, MD 21201
FAX: 410-706-2129
E-mail: kmoud001@umaryland.edu

POSTDOCTORAL POSITIONS are available for antibacterial drug design involving *Mycobacterium tuberculosis* and *M. avium*. Individuals should possess a Doctoral degree with training in molecular biology, biochemistry, enzymology, and/or microbial pathogenesis. Experience with bacterial metabolism, recombinant DNA, enzyme kinetics, and protein purification is highly desired. Salary is commensurate with experience and training. Send curriculum vitae and names of three references to: **William W. Barrow, Ph.D.**, Mycobacteriology Research Unit, Department of Pathobiology, College of Veterinary Medicine, 250 McElroy Hall, Oklahoma State University, Stillwater, OK 74078. E-mail: barrowb@okstate.edu. OSU is an Affirmative Action/Equal Opportunity Employer.

Two **POSTDOCTORAL RESEARCH FELLOWSHIPS** available for (1) studies on bone cell regulatory proteins. Experience in protein purification, basic biochemistry, molecular biology techniques, and signal transduction mechanisms desirable. Ph.D. with two to three years of previous postdoctoral experience desirable. (2) Studies on signal transduction mechanisms in bone cells. Experience in signal transduction studies and cell and molecular biology essential. Both positions open to U.S. citizens and permanent residents only due to *NIHSA* grant. Salary and benefits competitive; possibility exists for long-term positions. Send résumé, cover letter, and names of three references to: **Ms. Gonzalez, P.O. Box 7210, Loma Linda, CA 92354**.

POSTDOCTORAL POSITIONS are immediately available for an NIH-funded project involving development of nucleic acid (plasmid DNA and oligonucleotide-based) strategies for the treatment of inflammatory diseases and cancers. Applicants should have a Ph.D. or M.D. degree and experience in molecular biology and tissue culture work. Experience with animal study is also preferred but not required. Applicants should send curriculum vitae and names of three references to: **Dr. Song Li, Center for Pharmacogenetics, University of Pittsburgh, 639 Salk Hall, Pittsburgh, PA 15213**. FAX: 412-648-1664; e-mail: sol4@pitt.edu.

A **POSTDOCTORAL** or Ph.D. student position is open immediately to study electroreception in sea lamprey. Experience in electrophysiology required. Qualified individual will receive a competitive salary and benefits (medical, dental, 403b, etc.). Send curriculum vitae and list of references to: **Weiming Li, Department of Fisheries and Wildlife, Michigan State University, East Lansing, MI 48823 U.S.A.** E-mail: Liweim@msu.edu. MSU is an Affirmative Action/Equal Opportunity Institution. Persons with disabilities have the right to request and receive reasonable accommodation.

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. Apply to: **Rajendra Kumar Singh, Ph.D.**, University of Utah, 15N 2030E, Room 3240B, Salt Lake City, UT 84112-5330. Equal Opportunity Employer/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITIONS are available to study the molecular, biochemical, cellular, and physiological mechanisms of vascular blood flow control. Porcine models of exercise and/or hyperlipidemia are available, and this opportunity will afford the successful candidate exposure to a wide variety of techniques ranging from integrative to molecular and from manuscript preparation to grantsmanship. We have a strong record of postdoctoral training over the past five years, and six of our recent trainees are currently tenure-track faculty. Submit curriculum vitae and the names of three references to: **Dr. M. Harold Laughlin, Professor and Chair, Department of Biomedical Sciences, University of Missouri-Columbia, Columbia, MO 65211**. E-mail: laughlinm@missouri.edu. MU is an Equal Opportunity/Affirmative Action/Americans With Disabilities Act Employer.

POSTDOCTORAL POSITIONS Dendritic Cell Immunology

Available immediately to study the regulatory roles of specific dendritic cell subsets through transgenic and conditional knockout mice. Current projects include the roles of VCAM-1 and MHC-II on lymphoid dendritic cells. Expertise in signal transduction or cellular immunology is preferable. Program in molecular immunology at the Medical College of Georgia. Mail, FAX, or e-mail your résumé with at least two references to: **Pandelakis A. Koni, 1120 15th Street, Room CA2007, Medical College of Georgia, Augusta, GA 30912**. FAX: 706-721-7959; e-mail: lak@immag.mcg.edu. The Medical College of Georgia is part of the University of Georgia system; Equal Opportunity/Affirmative Action/Equal Access Employer. (E-01161834).

POSTDOCTORAL POSITIONS Yale University School of Medicine

Two Postdoctoral Fellowships are available to study (1) targeted genome modification via triple helix-forming oligonucleotides or (2) mechanisms of genetic instability in cancer in the laboratory of **Dr. Peter M. Glazer**, Departments of Therapeutic Radiology and Genetics.

The positions require U.S. citizenship or permanent resident status. Please respond with curriculum vitae, a statement of research interests, and list of three or more references to: **Lisa Cabral, Department of Therapeutic Radiology, Yale University School of Medicine, P.O. Box 9812, New Haven, CT 06536-0812**. E-mail: lisa.cabral@yale.edu.

The Laboratory of Molecular and Developmental Biology, National Eye Institute, National Institutes of Health, has **POSTDOCTORAL POSITIONS** available to study signaling pathways in lens epithelial cells. Areas of interest include the regulation of c-fos transcription by specific PKC isoforms and the role of Cdk5 in stress-induced apoptosis. A strong background in cell and molecular biology is required. All applicants must have a Ph.D. and/or M.D. and less than five years of postdoctoral experience. Salary range is \$30,800 to \$42,400 depending on experience. To apply, send curriculum vitae, bibliography, and the names and addresses of three references to: **Dr. Peggy Zelenka; e-mail: zelenkap@intra.nei.nih.gov**.

NEI/NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS supported by the NIH are available in the Section of Nephrology at the University of Chicago. Research topics include immunopathogenesis of experimental renal diseases, role of apoptosis in autoimmunity, and study of novel gastric growth factors. Investigative work can take advantage of a fully operational microarray facility controlled by the Section. Applicant must have a Ph.D. and/or M.D. degree and be a U.S. citizen or permanent resident. Expertise in cellular and molecular biology and/or immunology is essential. The start date can be as early as July 1, 2001. Submit curriculum vitae including three references to: **Dr. Jerrold Levine; e-mail: jlevine@medicine.uchicago.edu**. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITIONS Vertebrate Homeobox Genes in Development and Oncogenesis

Projects include (1) molecular genetics of prostate development and cancer (*Genes Dev.* 14:2410, 2000) and (2) roles of homeoproteins in cellular proliferation and differentiation (*Development* 126:4965, 1999; *Development* 2001, in press). Qualified individuals should have a Ph.D. and/or M.D. as well as prior experience in molecular biology, mouse genetics, and/or developmental biology. Please send curriculum vitae and three letters of reference to: **Cory Abate-Shen, Ph.D.**, Center for Advanced Biotechnology and Medicine, University of Medicine and Dentistry of New Jersey—Robert Wood Johnson Medical School, 679 Hoes Lane, Piscataway, NJ 08854. FAX: 732-235-5789; e-mail: abate@cabm.rutgers.edu.

POSTDOCTORAL POSITION to study cell cycle of human AIDS pathogen, *Toxoplasma gondii*, by using recently developed genetic strategies in toxoplasma and application of yeast two-hybrid to dissect cyclin-dependent mechanisms regulating pathogen growth and development. Competitive, NIH-funded salary. Ph.D. in a biomolecular-related discipline required. Send curriculum vitae and names/contact information of three references to: **Dr. Michael White, Veterinary Molecular Biology, Montana State University, Bozeman, MT 59717-3610**. FAX: 406-994-4303; e-mail: uvsmw@montana.edu. MSU is an Americans With Disabilities Act/Equal Opportunity/Affirmative Action/Veteran's Preference Employer.

POSTDOCTORAL POSITIONS to study gene expression in *Candida albicans* biofilm using gene arrays. Experience with molecular techniques and yeast preferred. Appointment and salary dependent on experience. Available August 2001 (pending funding). Also visit website: <http://www.ttuhsu.edu/pages/micro/chaffin.htm>. Send curriculum vitae and contact information for three references to: **Dr. W. L. Chaffin, Department of Microbiology and Immunology, Texas Tech University Health Science Center, Lubbock, TX 79430**. E-mail: micwlc@ttuhsu.edu. Texas Tech University Health Science Center is an Equal Employment Opportunity/Affirmative Action/Americans With Disabilities Act Employer.

POSTDOCTORAL POSITION RENAL/CARDIOVASCULAR PHYSIOLOGY

Position available immediately in the area of renal and cardiovascular adaptation to pregnancy. Research will focus on renal sodium handling and blood pressure regulation during normal and hypertensive pregnancies. Please send curriculum vitae and a brief statement of research interests to: **Ali A. Khraibi, Ph.D.**, Eastern Virginia Medical School, Department of Physiological Sciences, 700 Olney Road, Norfolk, VA 23507. E-mail: Khraibaa@EVMS.EDU. Eastern Virginia Medical School is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH FELLOW

Postdoctoral Fellow to investigate molecular mechanisms by which cigarette smoke suppresses T cell immunity in humans. Ph.D. degree with experience in immunology and molecular biology. Send résumé including three references to: **Dr. Brian M. Freed, HLA Laboratory Director, Mail Stop B-164, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262**. Apply by May 1, 2001. The University of Colorado Health Sciences Center is committed to Equal Opportunity and Affirmative Action.

POSTDOCTORAL FELLOWSHIPS. Diabetes Research Unit at Boston University Medical Center. To work with established group studying action and regulation of AMP-kinase in skeletal muscle and vascular cells. American citizen or permanent resident with background in molecular biology, physiology, and/or biochemistry preferred. Curricula vitae and references to e-mail: **nrunderman@medicine.bu.edu**.

**NATIONAL INSTITUTES OF HEALTH
POST-DOCTORAL POSITIONS**
Rocky Mountain Laboratories,
Hamilton, Montana
Salary Commensurate with
Experience/Education

Postdoctoral positions available for motivated individuals in the field of bacterial pathogenesis to study the molecular biology, biochemistry, and epidemiology of *Staphylococcus epidermidis* infections. *S. epidermidis* is a gram-positive opportunistic pathogen and one of the major causes of hospital-acquired infections. A special focus will be on cell-cell communication, host interaction, and the mechanisms involved in biofilm formation. Experiments will be carried out with state-of-the-art equipment, including large DNA sequencing facilities, microarray techniques, microscopic techniques including confocal laser scanning microscopy, animal testing facilities, sophisticated chromatographic equipment, etc. Roboters are available for high-throughput analyses in epidemiological projects.

Please send CV and three letters of reference to:

Michael Otto, Ph.D.

**Rocky Mountain Laboratories
Laboratory of Human Bacterial
Pathogenesis
NIAID, NIH**

903 S 4th Street

Hamilton, MT 59840

Email: michael_otto1@yahoo.de

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Postdoctoral Fellowship

The successful candidate will join a project conducted in collaboration with researchers at the University of North Carolina, aimed at developing methods useful for the discovery of ion channel modulators. Requirements include a recent Ph.D. in Biochemistry, Physiology, Pharmacology, Neuroscience or related fields. Experience or background in bioinformatics, molecular cloning, electrophysiology or neuropharmacology would be helpful. Techniques will include nucleic acid sequence database analysis, cloning of eucaryotic genes of diverse origin, *Xenopus* oocyte expression/electrophysiology, mammalian cell transfection, and fluorescent-dye indicators of cellular responses. The position will be for the term of one year and is renewable for a second year upon mutual agreement.

Interested applicants should send a curriculum vitae, a summary of research experience and goals, and the names of three individuals willing to submit letters of reference to: **Eli Lilly and Company, Sphinx Laboratories, Attn: Human Resources, P.O. Box 13591, 20 T.W. Alexander Drive, Research Triangle Park, NC 27709; FAX: (919) 314-4349; or E-mail: sphinx_recruit@lilly.com.** We are an equal opportunity employer dedicated to diversity and the strength it brings to the workplace.

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FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS

Applications are being accepted for the Philip Morris External Research Program Postdoctoral Fellowships. The Postdoctoral Fellowships program was established to support the development of scientists at the beginning of their careers in the following scientific areas: Exposure/Biomarkers/Dosimetry, Epidemiological Research, Clinical and Model Systems Research, and Tobacco Smoke and Smoking Behavior.

Qualified applicants must hold a recently conferred Ph.D. degree, M.D. degree, or equivalent degree at the time of the award, and have demonstrated an ability to conduct independent research. This is an international program and there are no citizenship or residency requirements for the Postdoctoral Fellowships.

Sponsorship of the fellow by an established investigator is required. There are no further restrictions regarding the specific discipline of the sponsor or the department at which the research will be conducted. International sponsors and collaborations are encouraged.

Applications must be received by June 30, 2001. For more information on the Postdoctoral Fellowships Program, please call or write:

**Research Management Group
Philip Morris External Research Program
Postdoctoral Fellowships
1099 Winterson Road, Suite 280
Linthicum Heights, MD 21090-2216 USA
Telephone: (410) 684-3782
Fax: (410) 684-3729
Email: rmgroup2000@aol.com**

POSTDOCTORAL POSITIONS IN BIOLOGY AT BOSTON COLLEGE

Boston College, a national university that offers outstanding research facilities, has the following postdoctoral openings in the Biology Department.

- **CYTOKINESIS, Dr. David Burgess** (David.Burgess@bc.edu). Cytokinesis, the division of the cytoplasm during mitosis, is mediated by an actin-myosin based contractile ring in the cleavage furrow. Opportunities are available to study the cleavage stimulus and the response system orchestrating assembly and dynamics of the contractile ring.
- **B CELL ACTIVATION AND SIGNAL TRANSDUCTION, Dr. Thomas Chiles** (chilest@bc.edu). An NIH-supported position is available to study the regulation of cell cycle entry in B lymphocytes in response to B cell antigen receptor (BCR) ligation. The proposed research includes: (1) study the role of hsp90/Cdc37 in D-type cyclin-cdk4 holoenzyme complex assembly and (2) study of the regulation of Cdc37 function by phosphorylation during negative signaling in mature B cells.
- **FISSION YEAST SIGNAL TRANSDUCTION, Dr. Charles Hoffman** (hoffmacs@bc.edu). Two NIH-supported positions are available to study glucose detection and cAMP signaling in the fission yeast *Schizosaccharomyces pombe*. The proposed research includes: (1) study of the git3 glucose receptor and (2) cloning and characterization of the *S. pombe* sgt1 gene proposed to encode a direct physical activator of adenylate cyclase.
- **STRUCTURAL BIOLOGY OF MYELIN AND AMYLOID, Dr. Daniel Kirschner** (kirschnd@bc.edu). Positions are available to study: (1) the ultrastructural neuropathology of, and adhesive mechanisms in, CNS and PNS myelins and (2) fibrillogenesis and the molecular organization of amyloid assemblies.
- **HOST-PARASITE INTERACTIONS IN MALARIA, Dr. Marc Muskavitch** (muskavit@bc.edu). Positions are available to study the developmental and cell biology of the midgut in the malaria vector mosquito, *Anopheles gambiae*. Understanding the biology of the *An. gambiae* midgut, a tissue central to the reproduction of malarial parasites, will advance our understanding of *Anopheles*-malaria interactions, and may help us develop strategies to disrupt this interaction.
- **DROSOPHILA NOTCH SIGNAL TRANSDUCTION, Dr. Marc Muskavitch** (muskavit@bc.edu). Positions are available to study signal transduction and cell-fate specification in the development of the fruit fly, *Drosophila melanogaster*. Studies will focus on ligand structure-function relationships and receptor processing and activation in the Notch signal transduction pathway.

For more information on each of these labs, visit: http://www.bc.edu/bc_org/avp/cas/bio/biofac. Applicants must have a Ph.D., demonstrated skills in the chosen subject area, and fluency in spoken and written English. To apply for a position, please send a curriculum vitae and three letters of reference addressed to the appropriate faculty member at: **Boston College, Biology Department, Higgins Hall, Chestnut Hill, MA 02467.**

Boston College is an Equal Opportunity Employer. We encourage applications from women and from members of groups underrepresented among life science professionals.

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP available to explore novel strategies for the immunotherapy of cancer and HIV infection (see our website: <http://www.med.upenn.edu/~immun/paterson.html>). In addition to intensive research training in our laboratory, Fellows may participate in the job skill training programs offered by the University of Pennsylvania Office of Postdoctoral Programs (see website: <http://www.med.upenn.edu/postdoc/>). Positions are open for recent or imminent Doctoral graduates in either bacterial pathogenesis or mucosal, cellular, or tumor immunology. A knowledge of modern immunological and bacterial recombinant techniques would be an advantage. Interested candidates should send curriculum vitae and names of three references to: **Dr. Yvonne Paterson, Professor of Microbiology, University of Pennsylvania, 323 Johnson Pavilion, Philadelphia, PA 19104-6076.**

A **POSTDOCTORAL RESEARCH** position is available to study cellular and molecular effects of ethanol in liver and endothelial cells. A strong background in cell signaling and molecular techniques together with experience in cell cultures and animal studies is desirable. Please send curriculum vitae, summary of research experience, and names of three references to: **Dr. Shivendra D. Shukla, Department of Pharmacology, University of Missouri School of Medicine, One Hospital Drive, Columbia, MO 65212. E-mail: ShuklaS@missouri.edu; FAX: 573-884-4558. Equal Employment Opportunity/Americans With Disabilities Act/Affirmative Action Employer**

POSTDOCTORAL POSITIONS: Two positions are available to work on development of molecular diagnostic assays related to lung, esophagus, melanoma, and breast cancer. Applicants should have extensive experience with procedures for RNA isolation/handling and RT-PCR. Salary will be \$30,000 to \$45,000 depending on experience. Senior Postdoctorals will also have the opportunity for rapid advancement to junior faculty status.

Address inquiries to: **Tony Godfrey, Ph.D., University of Pittsburgh, C-800 Presbyterian University Hospital, 200 Lothrop Street, Pittsburgh, PA 15213. E-mail: godfreytc@msx.upmc.edu.**

POSTDOCTORAL POSITION: Yale University. My laboratory is interested in epithelial-mesenchymal interactions in the breast. This NIH-supported project involves examining the effects of parathyroid hormone-related protein (PTHrP) on wnt-signaling and cell fate decisions during embryonic mammary development in mice. Studies will involve the use of transgenic and knockout mice. Experience in molecular and/or developmental biology is desirable. To apply, send curriculum vitae and three references to: **John Wysolmerski, FMP 102, 333 Cedar Street, New Haven, CT 06520. E-mail: john.wysolmerski@yale.edu. Yale is an Equal Opportunity Employer.**

A **POSTDOCTORAL POSITION** is immediately available to investigate the molecular mechanisms of HIV-1 protease inhibitors-induced inhibition of adipogenic differentiation in human bone marrow stromal and 3T3-L1 cells. Excellent opportunity to interface with researchers in cancer and gene therapy program. Experience in molecular biology techniques is required. Please send your curriculum vitae with references to: **Dr. K.C. Agrawal, Regents Professor and Chairman, Department of Pharmacology, Tulane University School of Medicine, New Orleans, LA 70112. E-mail: agrawal@tulane.edu. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS

Available to study molecular mechanisms of signaling by TNF family members (**Dr. Hong-Bing Shu; e-mail: shuh@njc.org**) or structural biology of immune-related proteins (**Dr. Gongyi Zhang; e-mail: zhangg@njc.org**). Candidates should send curriculum vitae and three references to the indicated Investigators by e-mail or mail to: **National Jewish Medical and Research Center, University of Colorado School of Medicine, 1400 Jackson Street, Denver, CO 80206. FAX: 303-398-1329.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS are available to investigate the differentiation of retinal neural progenitor cells into rod and cone photoreceptors and to study the regulation of photoreceptor cell survival in blinding retinal degenerations. The cellular and molecular mechanisms that regulate these phenomena, including the role of growth factors and transcriptional regulators, will be studied with a multidisciplinary approach that includes a broad range of methods of cell and molecular biology. Curriculum vitae, including the names of three references, should be sent to: **Ruben Adler, Wilmer Institute, 519 Maumenee, Johns Hopkins University School of Medicine, 600 North Wolfe Street, Baltimore, MD 21287-2575. E-mail: radler@jhmi.edu; FAX: 410-955-0749. JHU is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION in molecular and cognitive neuroscience, The Pennsylvania State University, University Park, Pennsylvania. Position available immediately to study the brain substrate of anxiety. We use molecular genetic and behavioral analysis of transgenic mice to generate novel cognitive maps (see Crestani et al., *Nat. Neurosci.* 2:833-839, 1999). Strong background in behavioral genetics and/or molecular biology required. Send résumé and names and e-mail addresses of three references to: **Dr. Bernhard Lüscher, 210 Mueller Laboratory, Department of Biology and BMB, The Pennsylvania State University, University Park, PA 16802. E-mail: BXL25@psu.edu; website: www.bio.psu.edu/People/Faculty/Luscher/. Applications accepted until position filled. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL FELLOWSHIPS in neurodegeneration. Two positions are available for NIH-funded projects to investigate the cellular and molecular biology of Parkinson's disease and Alzheimer's disease. The research utilizes genetically modified cell lines, primary neurons, and transgenic animal models. Prior experience with techniques of molecular biology is desirable. Competitive salary. Please provide curriculum vitae, a brief statement of research interests, and contact information for three references to: **Benjamin Wolozin, M.D., Ph.D., Associate Professor, Department of Pharmacology, Loyola University Medical Center, Building 102, Room 3634, 2160 South First Avenue, Maywood, IL 60153. E-mail: bwolozin@luc.edu.**

POSTDOCTORAL ASSOCIATE POSITION MAMMALIAN SEX DETERMINATION

Our NIH-funded studies are examining genetic control of gonadal sex determination through gene mapping and comparative mapping. Candidate must have recent Ph.D. Experience in molecular biology required. Send curriculum vitae and names of three references to: **Dr. V.N. Meyers-Wallen, J. A. Baker Institute, College of Veterinary Medicine, Cornell University, Ithaca, NY 14853. FAX: 607-256-5683; e-mail: vnm1@cornell.edu. Cornell is an Equal Opportunity/Affirmative Action Educator and Employer.**

Funded **POSTDOCTORAL POSITIONS** to study proteins that assemble, degrade, and regulate the secretion of cholesterol-bearing lipoproteins or the nonclassical secretion of proteins of medical importance from mammalian, yeast, and bacterial cells. Requires a Ph.D. and a strong background in molecular biology and either cell biology or microbiology. E-mail résumé with names of three references to: **Steve Chuck, Molecular Medicine Unit, Beth Israel Deaconess Medical Center and Harvard Medical School. E-mail: schuck@caregroup.harvard.edu.**

POSTDOCTORAL POSITION available to study mechanisms of inherited retinal degenerations using molecular biology, biochemistry, and cell biology approaches. Send application to: **Dr. Tiansen Li, Massachusetts Eye and Ear Infirmary, Harvard Medical School, Boston, MA 02114. E-mail: tli@meei.harvard.edu; website: www.howelaboratory.harvard.edu/#faculty.**

POSITIONS OPEN

POSTDOCTORAL POSITION

Saint Louis University, a Catholic Jesuit Institution dedicated to education, research, and health care, has a Postdoctoral position available immediately in the laboratories of **Drs. Terrance M. Egan and Mark M. Voigt** to study the molecular mechanisms of ATP-gated signal transduction. We use a combination of electrophysiology and molecular biology to characterize P2X receptors expressed in native and heterologous systems with the goals of understanding (1) how ATP controls current flow across cell membranes and (2) the physiological roles that these receptors play in purinergic signaling. Prior experience with patch clamp techniques and/or molecular biology is preferred but not required. Applicants must have a Ph.D., M.D., or equivalent. To apply, submit a cover letter, curriculum vitae, and bibliography. Candidates who meet our qualifications will be asked to submit the names of three references at a later date. Applications should be sent either by regular post or e-mail to:

**Dr. Terrance M. Egan (e-mail: egantm@slu.edu)
Dr. Mark M. Voigt (e-mail: voigtm@slu.edu)
Department of Pharmacology and
Physiological Science
Saint Louis University School of Medicine
1402 South Grand Boulevard
St. Louis, MO 63104 U.S.A.**

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

GENOMICS POSTDOCTORAL POSITIONS GENOME RESEARCH INSTITUTE

Positions are available in an NIH-funded functional genomics center to study gene expression profiles that regulate complex physiological traits and disease processes. Fellows will join a multidisciplinary team of Investigators in the newly created Genome Research Institute and pursue a research project in neuroscience, endocrinology, cardiovascular/pulmonary, or cancer biology. Candidates must be NIH training-grant eligible. Send curriculum vitae and three letters of recommendation to:

**David E. Millhorn, Ph.D.
Director, Genome Research Institute
Chair, Department of Molecular Physiology
University of Cincinnati
P.O. Box 670576
Cincinnati, OH 45267-0576**

POSTDOCTORAL POSITION is available to study B cell development and activation, especially as it relates to human autoimmune diseases. Possible projects include analysis of newly isolated interleukin-4 induced genes: *Fig1* enzyme or E4BP4 transcription factor. Candidates must have a Ph.D. or M.D. with a strong background in immunology, cell biology, or biochemistry. Molecular biology skills are required. Please send cover letter and curriculum vitae to: **Dr. Charles C. Chu, North Shore University Hospital/NYU School of Medicine, Department of Medicine, 350 Community Drive, Manhasset, NY 11030. FAX: 516-562-1683; e-mail: cchu@nshs.edu. Equal Opportunity Employer.**

POSTDOCTORAL POSITION available to study ribosomal peptidyl transferase and functions of rRNA in protein synthesis. See website: <http://www.uic.edu/~shura/> for list of publications. Applicants with experience in molecular biology of RNA and ribosome and/or protein purification preferred. Send curriculum vitae and names of three references to: **Dr. Alexander Mankin, Center for Pharmaceutical Biotechnology (M/C 870), University of Illinois at Chicago, 900 South Ashland Avenue, Room 3052, Chicago, IL 60607. E-mail: shura@uic.edu. UIC is an Affirmative Action/Equal Opportunity Employer.**

POSITIONS AVAILABLE IMMEDIATELY

The Department of Neurology at St. Luke's-Roosevelt Hospital Center, a university hospital of Columbia University College of Physicians & Surgeons, is launching a major research initiative into the biology of demyelinating diseases. The Department currently seeks applications for the following positions:

RESEARCH ASSOCIATE in Glial Biology

Seeking MD or PhD with experience in glial cell biology. Applicant must have previous experience with growth factors and stem cell differentiation. The laboratory is currently developing growth factors that will induce cell regeneration and remyelination. Candidate must have two years of postdoctoral experience. Minimum \$55,000 plus benefits.

RESEARCH ASSOCIATE in Molecular Biology/Immunology

Seeking postdoctoral scientist with experience in immunology of demyelinating diseases or related fields. Applicant will be expected to investigate the antibody response in multiple sclerosis. Candidate should have two years postdoctoral experience in molecular immunology. Minimum \$55,000 plus benefits.

RESEARCH ASSOCIATE in Pathology

Seeking an MD or PhD with experience in immunopathology or neuropathology. Applicant should be familiar with all routine pathological techniques. Previous experience with animal work or in situ hybridization preferred. Minimum \$55,000 plus benefits.

POSTDOCTORAL POSITION

Two postdoctoral positions are available in immunology and molecular biology. Applicants must have extensive experience in molecular and cell biology. Candidate will be encouraged to develop independent research project related to demyelinating disease. \$40,000 plus benefits.

All positions are funded for a two year period.

Please send CV and three letters of reference to:

Saud A. Sadiq, MD
Chairman
Department of Neurology
St. Luke's-Roosevelt Hospital Center
425 West 59th Street, Suite 7C
New York, NY 10019
e-mail: sas@asan.com

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Postmark deadlines for Application are April 15, August 15 and January 15.

For further information contact: Dr. Richard L. Miller,
NASA, Geospace Applications and Development Directorate
MA00, BLDG. 1100, Stennis Space Center, MS 35929
TEL: (601) 688-1904 FAX: (601) 688-1777

EMAIL: richard.miller@ssc.nasa.gov

Application materials can be obtained from the NRC Web site at
<http://national-academies.org/rap>

For questions or assistance, contact:

The Associateship Programs, National Research Council
2101 Constitution Avenue NW, (TJ2114/M3), Washington, DC 20418
TEL: (202) 334-2760 FAX: (202) 334-2759
EMAIL: rap@nas.edu

POSITIONS OPEN



POSTDOCTORAL POSITIONS MOLECULAR BIOLOGY OF MINERALS

University of Missouri-Columbia

Applications are invited for three Postdoctoral positions in active research programs investigating the molecular mechanisms of metal ion homeostasis. Candidates with experience in molecular biology, cell biology, or biochemistry are encouraged to apply.

Projects: **Dr. Michael Petris:** Structure-function analysis of the Menkes disease copper transporting ATPase and the cloning and characterization of novel mammalian genes regulating metal ion homeostasis. Website: <http://web.missouri.edu/~nutsci/petris.htm>.

Dr. David Eide: Analysis of yeast, plant, and mammalian zinc transporters and their transcriptional and posttranscriptional regulation. Website: <http://web.missouri.edu/~eideid>.

Dr. Roger Sunde: Ribonuclease protection and array approaches to determine selenium requirements and characterization of selenoprotein mRNA stability mechanisms; cloning of boron transport genes using mutagenesis and expression cloning in yeast. Website: <http://web.missouri.edu/~nutsci/sunde.htm>. Send all applications to: **Mary Ann Steyaert, Nutritional Sciences, 217 Gwynn Hall, University of Missouri, Columbia, MO 65211.** Affirmative Action/Equal Opportunity Employer.

INTERDISCIPLINARY TRAINING PROGRAM IN MUSCLE BIOLOGY University of Maryland School of Medicine, Baltimore

POSTDOCTORAL POSITIONS for training in biophysics, biochemistry, physiology and cellular, developmental, and molecular biology of skeletal, cardiac, and smooth muscle. Eighteen participating faculty laboratories. NIH-level stipends with possible supplementation plus travel and family health benefits. Applicants should e-mail their letters of interest, curriculum vitae, and list of references to e-mail: kreineck@umaryland.edu. NIH/NIAMS-funded positions available for U.S. citizens and permanent residents only. For further information, please see our website: <http://medschool.umaryland.edu/musclebiology> or contact: **Dr. Martin Schneider, Director, 108 North Greene Street, Baltimore, MD 21201.** E-mail: mschneid@umaryland.edu or **Kathleen Reinecke, Administrator; Telephone: 410-706-8417.** The University of Maryland is an Equal Opportunity Educator and Employer.

POSTDOCTORAL POSITIONS available immediately to study the roles of murine forkhead/winged helix genes, *Foxc1* and *Foxc2*, involved in the formation of a variety of embryonic tissues (*Cell* 93: 985-996, 1998; *Dev. Biol.* 211:306-322, 1998; *Dev. Biol.* 213:418-431, 1999; *Development* 127:1387-1395, 2000) with emphasis on the cardiovascular development. Projects newly supported by NIH funding include developmental biology, knockout mouse technology, molecular and cell biology, and biochemical analysis. Experience in molecular biology and/or developmental biology is desirable. Please send curriculum vitae, a summary of research interests, and the names of three references to: **Dr. Tsutomu Kume, Department of Cell Biology, Vanderbilt University Medical Center, C-2310, MCN, Nashville, TN 37232-2175.** E-mail: tsutomu.kume@mcmail.vanderbilt.edu.

POSITIONS OPEN

TWO POSTDOCTORAL POSITIONS NEURAL PROSTHETICS California Institute of Technology

Two Postdoctoral positions in the area of neural decoding and control for neuroprosthetics are immediately available. The successful applicants will engage in collaborative research with Professors **Richard Andersen** and **Joel Burdick**, as well as a team of Neurophysiologists, Engineers, and Surgeons. Because of the interdisciplinary nature of this work, applicants with backgrounds in primate neurophysiology, electrophysiology, statistical signal processing, hybrid control theory, or nonlinear model identification will be considered. Strong scientific computation skills are necessary.

The goal of our project is to develop the science and technology for future neural prosthetic systems that would allow severely paralyzed people to control external prosthetic devices by thought alone. This is done through the use of electrodes implanted in cortex. The information that is extracted, or decoded, from the cortical recordings drives the prosthetic systems.

Position in neural decoding and control of electromechanical devices: To enable future neural prosthetic systems, new advances in the information theoretic decoding of neural signals is required. This Postdoctoral position will focus on new neural decoding methods and the use of decoded signals for prosthetic control. Applicants for this position should have a strong background in signal processing or statistics. Some familiarity with the design and control of electromechanical systems is desirable.

Position in electrophysiology: This position will focus on the development of a new generation of movable cortical recording electrodes. Preferred applicants will have a background in electrophysiology including familiarity with the extracellular recording of single neuron activity. Some electromechanical design experience is desirable.

Please submit curriculum vitae and a list of three references to: **Cierina Reyes Marks, Division of Biology, MC 216-76, California Institute of Technology, Pasadena, CA 91125 U.S.A.** E-mail: cierina@vis.caltech.edu. Please indicate the position you are applying for. Application deadline is May 15, 2001.

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

POSTDOCTORAL FELLOW

The Division of Geographic Medicine is seeking three Postdoctoral Fellows to join an active virus research group under **Polly Roy (Roy, "Orbivirus Structure and Assembly," review article, *Virology* 215: 1-11).** The laboratory is currently involved in various aspects of double-stranded RNA virus research including reverse genetics, transcription/replication processes, virus assembly mechanisms, virus-host interactions, and protein crystallization.

Salary is negotiable based on qualifications and experience. Interested persons should send two copies of detailed curricula vitae and the names and addresses of two references to: **Dr. Randall Owens, University of Alabama at Birmingham, Division of Geographic Medicine, BBRB 206, 845 South 19th Street, Birmingham, AL 35294-2170.** E-mail: rjowens@uab.edu. The University of Alabama System is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN TEXAS

Available immediately for study of metabolic enzymes in methylotrophic bacteria, Ph.D. required. Experience with prokaryotic systems is desirable but not essential. Candidates should have strong background in current methodology in enzyme research. Competitive stipend and benefits. Candidates should send applications and arrange to have two recommendations sent to: **Professor Edward Bellion, Department of Chemistry and Biochemistry, University of Texas at Arlington, Box 19065, Arlington, TX 76019.**

POSITIONS OPEN



International
Therapeutics

International Therapeutics, Inc., a new biopharmaceutical company located in Seattle, Washington, is recruiting **VIROLOGISTS** as well as **CELL** and **MOLECULAR BIOLOGISTS** to participate in exciting, innovative programs focused on development of novel antiviral therapeutics. Established track record in pharmaceuticals discovery and development is preferred. For job descriptions and contact information, please log on to website: www.international-therapeutics.com.

POSTDOCTORAL ASSOCIATE, RESEARCH ENTOMOLOGIST, GS-0414-11/12: U.S. Department of Agriculture-ARS, Lincoln, Nebraska. The Midwest Livestock Insects Research Unit is seeking a Research Entomologist to assist in the development of gene transfer methods for the screw-worm fly (*Cochliomyia hominivorax*) that will be used to generate transgenic strains useful for sterile insect technique programs. Ph.D. in a related discipline is required and should have been awarded within the past four years. Postdoctoral experience in molecular entomology or genetics is preferred, and experience in insect systems (including *Drosophila*) is beneficial. Incumbent will be stationed in Lincoln, Nebraska, but also will participate in training and collaborative research at the USDA-ARS laboratory in Gainesville, Florida. The position is funded for two years and salary is commensurate with experience (\$43,326 to \$67,500). Benefits available. Position will be open until filled. *There are some employment restrictions for non-U.S. citizens.* Submit curriculum vitae, country of citizenship, veterans' preference, copy of graduate and undergraduate transcripts and list of pertinent college courses, one-page abstract of Ph.D. dissertation, recent reprints, and contact information for three references. Start date immediate but somewhat negotiable. Submit applications and inquiries to: **Steve Skoda, USDA-ARS-MLIRU, 305 PI Building, UNL-EC, Lincoln, NE 68583-0938.** Telephone: 402-437-5267; FAX: 402-437-5260; e-mail: sskoda1@unl.edu. E-mail applications okay. The USDA is an Equal Opportunity Provider and Employer.

POSTDOCTORAL POSITIONS CARDIOVASCULAR ION CHANNELS

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

RESEARCH STAFF ASSOCIATE

The Division of Digestive and Liver Diseases at the College of Physicians and Surgeons of Columbia University has an opening for a Research Staff Associate or **POSTDOCTORAL RESEARCH SCIENTIST** at a Master's or Ph.D. level. The candidate must have two years of documented experience in research and be proficient in a broad range of laboratory techniques including techniques of molecular biology, radioimmunoassay, protein electrophoresis, ELISA, and experience in working with small laboratory animals. Submit curriculum vitae to: **Kaarel Laev, Administrator, Medicine/Digestive and Liver Diseases, Columbia University, 630 West 168th Street, Box 8, New York, NY 10032.** Columbia University is an Equal Opportunity/Affirmative Action Employer.



Microarray Facility Coordinator

Biotechnology Institute UNIVERSITY OF DELAWARE

The Delaware Biotechnology Institute will establish a Genomics core facility for custom preparation of DNA microarrays to support a variety of research projects involving a range of species. We are searching for a core manager with an MS/PhD or equivalent with experience in microarray and other high-throughput technologies. This staff member will be responsible for (1) helping to establish and maintain the facility, (2) technical consulting and participation in cutting-edge research, (3) several levels of training for the research community. Experience in generation and analysis of microarray/expression profile data is desirable. Excellent leadership, communication and organizational skills are essential attributes for this position, as well as the ability to work as a member of a team. Qualified candidates should send resume and names, addresses and phone numbers of three references by May 11, 2001 to **Joan Burnside, Search Chairperson, Delaware Biotechnology Institute, University of Delaware, Newark, DE 19716**. The UNIVERSITY OF DELAWARE is an Equal Opportunity Employer that encourages applications from Minority Group Members and Women.

POSTDOCTORAL OPPORTUNITIES



TWO POSTDOCTORAL FELLOWS Mayo Clinic Rochester, MN

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

Experience in molecular biology is required, training in virology is desirable. Salary will be determined by the successful candidate's experience. There is also an attractive benefit package. Mayo Foundation is a non-profit physician led clinical practice integrated with education and research in a unified multi-campus system. For further information please visit <http://www.mayo.edu/research/mmp>. Please send curriculum vitae and bibliography to:

Dr. Stephen J. Russell
Mayo Clinic
Molecular Medicine Program
Guggenheim 18
200 First Street SW
Rochester, Minnesota 55905 USA

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

MAX-PLANCK-GESELLSCHAFT Generalverwaltung



The Max Planck Society for the Advancement of Science (MPG; <http://www.mpg.de/english>) is a German research organization of high international reputation. Its research activities cover fundamental aspects of science and humanities in more than 80 specialized research institutes. The management of scientific information within the society is mainly the responsibility of each individual institute. To keep pace with, and eventually play a leadership role in Europe in the ongoing electronic information revolution, the MPG has initiated a 5-year project to support researchers and research processes in the area of information management. The objectives of the project include coordination of existing activities within the MPG and implementation of a strategy to develop "electronic research archives". The project, entitled the Center for Information Management, will receive substantial monetary and personnel support from the MPG, and will be advised by a commission of MPG Institute directors and Rick Luce, the Director of the Los Alamos National Laboratory's "Library Without Walls" (<http://lib-www.lanl.gov/lww/welcome.html>).

The MPG seeks a qualified candidate for the position of the

Executive Director of the Center for Information Management

Candidates should have an intimate understanding of the ongoing revolution in electronic information management, and be experienced in the development and use of electronic research tools. They should further have extensive knowledge and expertise leading teams and development efforts in database design and support, Unix server administration, and Web applications. Candidates with a vision for the development of information management structures and with the political skills to implement their vision within the MPG are strongly encouraged to apply. The director, who will report directly to the general secretary of MPG, should have the ability to manage, lead and inspire an international team of co-workers. A working knowledge of German would be of advantage.

The MPG is an equal opportunities employer. Women are encouraged to apply. When a disabled candidate and a non-disabled candidate are equally qualified, the disabled candidate will be chosen. Salaries will be competitive depending on qualifications (BAT 1 to C3). Social benefits of the German public sector will apply. The MPG is known for an efficient and flexible working environment. For further information, see <http://www.mpg.de/it/cim/cime.html>.

Applicants should send their CVs and three references to:

MAX-PLANCK-GESELLSCHAFT
zur Förderung der Wissenschaften e. V.
Generalverwaltung, Zentrale Dienste
Hofgartenstraße 8, D-80539 München, Germany
E-mail: HR@mpg-gv.mpg.de

Please hand in your application in English by May 18th.

POSITIONS OPEN

POSTDOCTORAL POSITIONS are available immediately to study (1) the role of MYC family transcription factors (including MXI1, MAD1) in neuroblastoma and glioblastoma tumorigenesis; and (2) the pathogenesis of acute myeloid leukemia. Required qualifications include a Ph.D. and/or M.D. with practical research experience and skills in molecular, cellular, or developmental biology. Due to funding agency restrictions, the position can only be filled by an individual who is a citizen, national, or permanent resident of the United States. Please send curriculum vitae including contact information for three references to: **Dan Wechsler, M.D., Ph.D., Section of Pediatric Hematology-Oncology, The University of Michigan, CCGC 4312, 1500 East Medical Center Drive, Ann Arbor, MI 48109-0936. E-mail: dwechsl@umich.edu. UM is an Equal Opportunity/Affirmative Action Employer.**

A **POSTDOCTORAL POSITION** is available immediately to study posttranslational modification of proteins following exposure of human cells to carcinogens *in vitro*. Focus areas include characterization of modified forms of p53 and related molecules by 2D-PAGE and MALDI-MS and determination of the effect of these modifications on cell cycle regulation and DNA repair. The ideal candidate should have experience in protein biochemistry with a strong interest in the area of proteomics. Contact us by sending your curriculum vitae to: **Dr. S. Swaminathan, University of Wisconsin Medical School, Environmental Health Sciences Center, 1300 University Avenue, Room 1630, Madison, WI 53706. Telephone: 608-263-8953; FAX: 608-262-1257; e-mail: swaminat@facstaff.wisc.edu.**

POSTDOCTORAL POSITIONS in Alzheimer's disease research are currently available to study inflammatory mechanisms in AD and the role of cell cycle regulation in neuronal death. The projects will involve the use of tissue culture and mouse genetic models to investigate intracellular signaling pathways and cell cycle regulators relevant to disease pathogenesis. Experience in molecular and cellular biology is desirable. Please forward curriculum vitae, names of references, and a brief statement of research interests to: **Dr. Gary Landreth or Dr. Karl Herrup, Alzheimer Research Laboratory, Case Western Reserve University School of Medicine, 10900 Euclid Avenue, Cleveland, OH 44106; E-mail: gel2@po.cwru.edu or kxh26@po.cwru.edu.**

POSTDOCTORAL or STAFF SCIENTIST position for an Organic Chemist or Bioorganic Chemist in a proteome project. Work involves synthesis of chemical tags and chemical labeling of proteins as part of a technology development project that includes separations and mass spectrometric techniques to measure and characterize protein expression patterns. Send résumé to: **Professor Barry L. Karger, Barnett Institute, 341 Mugar Building, Northeastern University, Boston, MA 02115. E-mail: b.karger@neu.edu. Northeastern is an Affirmative Action/Equal Opportunity/Title IX University.**

POSTDOCTORAL/JUNIOR RESEARCH FACULTY to study projects related to brain aging. Transgenic mice breeding, molecular biology, and lipid/cholesterol biochemistry experience is required. Enjoy the Sun Belt, beautiful beaches, and low cost of living. Apply to: **Dr. Miguel Pappolla, University of South Alabama Medical College Pathology, 2451 Fillingim Street, Mobile, AL 36617. E-mail: Alzheimercenter@yahoo.com. USA is an Affirmative Action/Equal Opportunity Employer.**

Two **POSTDOCTORAL POSITIONS** for Immunologists interested in studying chemical allergies and tumor immunology are available immediately at UCLA School of Dentistry and Medicine, Division of Oral Biology. The candidates should be familiar with Northern analysis, microarray analysis, RT-PCR, transfection, cloning, tissue culture, and Western blotting. Please contact: **Dr. Anahid Jewett; Telephone: 310-206-3970 or send your curriculum vitae to e-mail: ajewett@ucla.edu.**

POSITIONS OPEN



DUKE UNIVERSITY MEDICAL CENTER

POSTDOCTORAL POSITION available to study the molecular mechanisms of hormone signal regulation. Expertise in signal transduction and molecular biology is helpful. Studies are performed in cultured cells as well as primary cell culture. We are investigating the mechanisms governing gastrointestinal hormone signal transduction with an emphasis on receptor desensitization and resensitization. We have identified novel targets in the signal termination of peptide hormone receptors, which are typical G protein-coupled receptors. Please contact: **Michael A. Shetzline, M.D., Ph.D., Division of Gastroenterology, Department of Medicine, Duke University Medical Center, Box 3083 Medical Center, Durham, NC 27710. E-mail: shetz001@mc.duke.edu. Curriculum vitae to FAX: 919-684-4983.**

POSTDOCTORAL FELLOWS CANCER AND DEVELOPMENTAL BIOLOGY

Positions are available for highly motivated individuals interested in studying Hedgehog signaling in development and disease. Our research program is based on two interrelated projects: one centers on understanding how deregulated Hedgehog signaling gives rise to basal cell carcinomas (*Nature Genet.* 24:216-217, 2000); a second focuses on defining the function of this pathway during development of hair follicles (*Dev. Biol.* 205:1-9, 1999) and other ectodermal derivatives. Applicants should have a strong background in molecular and cell biology with experience in transgenic methodology and/or development biology desirable but not essential. Send curriculum vitae, cover letter, and names of three references to: **Dr. Andrzej Dlugosz, University of Michigan, Dermatology Department and Comprehensive Cancer Center, 3310 CCGC-Box 0932, 1500 East Medical Center Drive, Ann Arbor, MI 48109-0932. E-mail: dlugosza@umich.edu. The University of Michigan is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOWSHIPS available. Applicants are sought for positions in the Endocrine Division of Physiology at Dartmouth Medical School. One successful candidate will join an exciting research project related to autocrine regulation of lung and breast cancers by neuropeptides and immunotargeting. One other will work with a project related to regulation of gene expression by either thyroid hormone or aldosterone. Applicants must be U.S. citizens or permanent residents with a Ph.D. or M.D. Experience with techniques in molecular biology, sterile cell culture, or protein purification is desirable. Send curriculum vitae and names of three references to: **Dr. William G. North, Professor of Physiology, Dartmouth Medical School, 1 Medical Center Drive, Lebanon, NH 03756. E-mail: William.G.North@Dartmouth.Edu; Telephone: 603-650-7736. Some information about physiology at DMS can be obtained through our website: <http://www.dartmouth.edu/~physiol/>.**

POSTDOCTORAL RESEARCH ASSOCIATE POSITIONS open in two areas: (1) cell-signaling initiated by integrins and the urokinase receptor and (2) beta-amyloid peptide-protein interactions. Candidates should have experience in cell and molecular biology and a specific interest in one of the described areas of research. Competitive salaries will be offered depending on experience. Please review our website: www.med.virginia.edu/medicine/clinical/pathology/Faculty/index.html and recent publications from our laboratory. Then forward a letter describing your interest in one of the areas of research mentioned here together with curriculum vitae and names of three references to: **Dr. Steve Gonias, University of Virginia School of Medicine, Box 800214, Charlottesville, VA 22908. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

POSTDOCTORAL FELLOW Washington University School of Medicine St. Louis, Missouri

The Division of Bone and Mineral Diseases of Washington University Medical School has openings for Fellows supported by an NIH training grant, "Mineral and Skeletal Metabolism." The program provides advanced training in biomedical research, emphasizing cell-cell communication; cytokine and growth factor signaling; osteoblast gene transcription; the control of tissue biomineralization; and skeletal development and heterotopic mineralization syndromes. A primary objective is to prepare Biomedical Scientists for academic careers in teaching and research. Under the guidance of faculty mentors, trainees develop research programs enhanced by clinical case and research seminars and optional clinical rotations. Faculty include internationally acclaimed Investigators with expertise in molecular and cell biology, pathology, immunology, pharmacology, and the clinical investigation of genetic disorders perturbing skeletal homeostasis. Eligible trainees must have completed a Doctorate in a biological or medical science and be U.S. citizens or permanent U.S. residents. For information, contact: **Ms. Kathryn Schaller; Telephone: 314-454-8440; e-mail: kschalle@im.wustl.edu. WUMS is an Equal Employment Opportunity/Affirmative Action/Americans With Disabilities Act Employer.**

MOLECULAR TOXICOLOGY University of Wisconsin-Madison

POSTDOCTORAL POSITIONS available in molecular, cellular, and biochemical toxicology, funded by an NIEHS training grant.

Topic areas include regulation of gene expression (toxicant metabolizing enzymes, oncogenes, DNA repair enzymes); toxicant activation; toxicity in developing organisms; mechanisms of carcinogenesis; and action of toxicants on liver, kidney, gonadal, and immune cells.

Time will be allocated for training in toxicology and molecular and cellular biology as appropriate. Collaborative projects involving more than one laboratory are encouraged.

Applicants must be U.S. citizens or permanent residents and should send curriculum vitae, three references (addresses/telephone numbers), and a letter stating research interests to: **B. Lynn Allen-Hoffmann, Director, Environmental Toxicology Center, 290 Enzyme Institute, 1710 University Avenue, Madison, WI 53705-4098. Telephone: 608-263-4580; FAX: 608-262-5245; E-mail: uwetox@facstaff.wisc.edu. An Equal Opportunity Employer.**

POSTDOCTORAL POSITION available to study the supramolecular organization of the postsynaptic density (PSD). We will determine the relative positions of glutamate receptor-related proteins within the PSD, their stoichiometry, and changes associated with synaptic plasticity and development. We use state-of-the-art methods of LM and EM immunocytochemistry and image analysis as well as subcellular fractionations and quantitative Westerns. Applicant should be highly motivated with good command of English; Ph.D. or M.D./Ph.D. with experience in biochemistry and microscopy preferred. Send curriculum vitae, research interests, and references to: **Richard Weinberg, Department of Cell Biology, CB Number 7090, University of North Carolina, Chapel Hill, NC 27599. E-mail: rjw@med.unc.edu. University of North Carolina, Chapel Hill is an Equal Employment Opportunity/Americans With Disabilities Act Employer.**

POSTDOCTORAL FELLOW and RESEARCH ASSOCIATE positions available immediately. Research focuses on apoptosis with three major themes: the mechanism of Bcl-2 function, the role of stress responses in regulating apoptosis, and the mechanism of glucocorticoid-induced apoptosis in leukemia and lymphoma cells. NIH-funded position. U.S. citizen or permanent resident only. Send letter and names of three references to: **Dr. Clark W. Distelhorst, Department of Pharmacology, Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106. E-mail: cwd@po.cwru.edu. CWRU is an Equal Opportunity Employer.**

Novartis is a world leader in the research and development of products to protect and improve health and well-being. We are currently seeking the following creative individuals to join our Research teams in Summit, NJ and Basel, Switzerland:

**Better world.
Better careers.**

Database Specialists Software Engineers Senior Software Engineers

Individuals will be responsible for the elaboration of concepts, the design of Drug Discovery Center (DDC) IT system components and application architectures, as well as for aspects of system implementation. Additionally, responsibilities will include, but will not be limited to, the elaboration of functional and conceptual requirements, system analysis; data and process modeling, the design and development of database, as well as database and multi-tiered client/server applications. You will plan, organize, and execute the implementation and integration of new systems or system components on the global DDC department level, manage small and medium-sized IT projects and ensure a close collaboration with staff and scientists in the Drug Discovery Center.

Requirements include a B.S. or M.S. degree in Information Technology/Computer Science with good computer science, software engineering and development skills. Experience in the following will also be needed: Oracle and Microsoft development tools; object oriented design concepts and programming languages; strong abstraction and system design skills; familiarity with modern system architectures and varied programming techniques. Previous work experience in a High Throughput Screening program and familiarity with DDC-like research/business area is desired. **Requisition #10017AD.**

Programmer/Analyst

The individual will be responsible for application and GUI programming. This will entail analyzing business processes based on defined requirements, supporting project owners by describing user requirements, and the design, realization and implementation of IT solutions according to given specifications. Additionally, you will be responsible for data and process modeling, the development of application and GUI solutions and/or prototypes, customizing standard solutions and developing additional functions/objects according to user requirements, and application maintenance and lifecycle management. Writing of documentation, deployment of applications to

users, and application specific support of end-users (DDC laboratory staff and scientists) will also be part of your job functions.

Requirements include a B.S. degree in Information Technology or equivalent relevant practical experience. Must possess a good knowledge of, and have experience with, Windows and Web development tools (C, C++, VB, Java, script languages, etc) and be proficient in GUI programming techniques. The ability to provide creative solutions will also be needed. Knowledge of database systems (e.g. Oracle) is an advantage. **Requisition #10018AD.**

Lab PC Workstation/Server Specialist

The individual will be responsible for laboratory PC workstation and server support (Windows NT/2000). This includes supporting a large variety of laboratory PC's with diverse application software, organizing and supporting the implementation of custom and standard software packages, and integrating software packages in departmental IT hardware and software infrastructure. You will also be responsible for programming of simple applications to support laboratory processes, interfacing of standard laboratory equipment, set-up of workstations and simple data acquisition systems, and troubleshooting/problem management.

Requirements include a B.S. degree in Information Technology or equivalent relevant practical experience, along with experience with laboratory instrument interfacing and laboratory data management software. Must possess a good knowledge and proven experience in the set-up and operation of an NT workstation and server environment as well as of scientific laboratory environments. Microsoft certification an advantage. An interest in providing efficient end-user support in a challenging environment will also be needed. **Requisition #10019AD.**

DDC Automation Engineer

This individual will be responsible for the analysis, evaluation, conceptual design, and implementation of laboratory and process automation needs in the DDC. This will include collaborating with external system suppliers, and planning, organizing and executing the implementation of laboratory

process automation and automated drug screening systems in DDC. The successful candidate will also be responsible for writing specifications and documentation, managing small to large size automation/engineering projects and collaborating with IT group, staff and scientists in the DDC Research Department.

Requirements include a B.S. or M.S. degree in an engineering discipline with experience in automation, industrial automation, process engineering, engineering physics, or mechanical/electrical engineering. Must possess a proven track record of successful automation projects, particularly in collaboration with external partners, be able to optimize automation and business processes, including the use of simulation methodologies. Effective project management and additional background or work experience in information technology, along with previous work experience in a similar work area (automation in scientific laboratory environments and for drug screen processes) would be an advantage. **Requisition #10021AD.**

Some positions will require English/German language skills.

At Novartis Pharmaceuticals, we offer excellent compensation and benefits programs that reflect our position as an industry leader. The programs include medical, dental, vision, legal and financial planning services, life insurance, 401(k) as well as leadership development initiatives. Find out how fulfilling your career can be.

Please e-mail your resume as a 'Microsoft Word' attachment to: rd@recruitmentsolutions.com. Include in your e-mail message the following information: 1. In the subject area and in the main copy of your e-mail, reference the requisition # (4 digit req #) for sorting purposes. 2. In a brief note or cover letter, indicate where core competencies align with requisition.

As an alternate method of submission, fax your resume and cover letter to: 800-343-8850. If you would like to know more about openings available at Novartis, please visit our website at: www.joinnovartis.com. We are equal opportunity employers M/F/D/V.

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The Spirit of Discovery

www.joinnovartis.com

POSITIONS OPEN

POSTDOCTORAL POSITION in functional neuroanatomy in the NIMH Intramural Research Program. The candidate should have a strong background in molecular and cellular biology and an interest in using anatomical localization techniques to examine immune signaling in the brain. We are studying cytokines and related immune molecules and their cellular sources in several *in vivo* paradigms. Approaches to be used include administration of pro- and anti-inflammatory agents and use of DNA microarray, knockout mice, bone marrow stem cells, and viral-based delivery of genes to stem cells. Opportunity to carry out independent work. Excellent facilities provided. Applicants must have a Ph.D. or M.D. See website: <http://intramural.nimh.nih.gov/lcmr/sfn>. Contact: Miles Herkenham, Section on Functional Neuroanatomy, NIMH, Building 36, Room 2D15, Bethesda, MD 20892-4070. E-mail: miles@codon.nih.gov. The NIH is an Equal Opportunity Employer.

POSTDOCTORAL OPPORTUNITY Computational Structural Biology

A Postdoctoral Fellowship is available in the development of computational methods for protein structure determination using data from X-ray crystallography and solid-state NMR. This interdisciplinary project will be jointly mentored by faculty from chemistry and mathematics. Applicants with experience in computer programming and any of the relevant fields are welcome, including molecular structure and mathematics. Please send curriculum vitae, a brief description of research experience, and three reference letters to: Dr. Richard Bertram, Institute of Molecular Biophysics, Florida State University, Tallahassee, FL 32306-4380. For more information, see website: <http://www.sb.fsu.edu>; e-mail: bertram@sb.fsu.edu.

POSTDOCTORAL POSITIONS

Two Postdoctoral positions are available in the laboratory of Dr. Dhiren R. Thakker, School of Pharmacy, University of North Carolina—Chapel Hill, to pursue novel approaches for investigation of metabolic stability of drug molecules toward cytochrome P450-mediated metabolism. Candidates with doctoral research in chemistry, biochemistry, drug metabolism, or other relevant fields are encouraged to apply. Experience with enzyme kinetics, *in vitro* metabolism, or cytochrome P450 enzymology is preferred (but not required). The research project(s) will involve academic-industrial collaboration. Send curriculum vitae to: Dhiren Thakker, School of Pharmacy, CB Number 7360, Beard Hall, UNC—CH, Chapel Hill, NC 27599-7360. E-mail: dhiren_thakker@unc.edu. UNC is an Equal Opportunity Employer.

POSTDOCTORAL POSITION BIOCHEMICAL/BIOPHYSICAL CHEMISTRY

Thermodynamic and kinetic investigations on the effects of cosolvents on RNA. Desire strong biophysical background and/or experience with handling RNA. Hands-on experience with DSC and spectrophotometers a plus. Send résumé, publication list, and three recommendation letters to: Dr. Thomas Gluick, Department of Chemistry and Biochemistry, Box 19065, University of Texas at Arlington, Arlington, TX 76019-0065. E-mail: tcgluick@uta.edu. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION in molecular neurobiology. A Postdoctoral position, funded by an NIH grant, is available immediately. Duties include research to determine how expression of neuroprotective genes can affect neuronal cell death in Alzheimer's disease. Recent publications include Lee et al., *J. Biol. Chem.* in press, 2001; Wang et al., *Neurobiol. Aging* 21:525–531. Research experience in cell culture and molecular biology is essential. Send curriculum vitae to: Dr. Jeffrey A. Johnson; University of Wisconsin—Madison. E-mail: jajohnson@pharmacy.wisc.edu; website: <http://www.pharmacy.wisc.edu>.

POSITIONS OPEN

FACULTY POSITIONS IN SKELETAL BIOLOGY

University of Connecticut Health Center

The School of Dental Medicine of the University of Connecticut Health Center (website: <http://www.uchc.edu>) is seeking candidates for tenure-track positions in skeletal biology. Positions are available at all levels (PROFESSOR, ASSOCIATE PROFESSOR, and ASSISTANT PROFESSOR), although preference will be given to Investigators with established funded research programs. The School of Dental Medicine and the Health Center have targeted the area of skeletal biology for continued growth and development, building on the considerable existing strength in this field at the Health Center. The goal is to develop a cohesive, interactive, synergistic group of outstanding Scientists with related interests and complementary expertise in the area of skeletal biology. Appropriate research areas include regulation of skeletal growth, development, differentiation, and patterning; regulation of chondrocyte maturation and osteoblast differentiation; and genetics, cell biology, and developmental biology of skeletal tissues.

Candidates should have a Doctoral degree, a strong record of research and training accomplishments, and an ability and interest in collaborating with other researchers. Interested individuals should send a letter expressing interest in the position, current curriculum vitae, a description of current research programs, and the names of three references to:

William B. Upholt, Ph.D.
Department of BioStructure and Function
School of Dental Medicine
University of Connecticut Health Center
263 Farmington Avenue
Farmington, CT 06030-3705 U.S.A.
E-mail: upholt@exchange.uchc.edu
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PLANT ECOLOGY. One-year sabbatical replacement beginning fall 2001. **ASSISTANT PROFESSOR** in the Biology Department at The Colorado College, a private, undergraduate, highly selective liberal arts institution enrolling 1,900 students. Responsibilities include teaching introductory botany, field-based ecology, biostatistics, and plant ecology. Ph.D. required; teaching and postdoctoral experience preferred. The College seeks candidates who understand diverse perspectives and learning styles with particular emphasis on the perspectives of women and minority groups. Applicants should send (1) cover letter that includes a description of professional background; (2) statement of teaching philosophy; (3) description of current and future research plans; (4) curriculum vitae with e-mail address; (5) unofficial undergraduate and graduate transcripts; and (6) three letters of recommendation to: Ron Capen, Chair, Department of Biology, Colorado College, Colorado Springs, CO 80903. E-mail: rcapen@ColoradoCollege.edu; FAX: 719-389-6940. Applications will be considered as they are received. E-mail and FAX submissions are encouraged.

The Colorado College welcomes members of all groups and reaffirms its commitment not to discriminate on the basis of race, color, age, religion, sex, national origin, disability, or sexual orientation in its educational programs, activities, and employment practices.

Two **POSTDOCTORAL POSITIONS** are available at Stanford University to study (1) regulation of ubiquitin-dependent proteolysis and (2) mechanism of mitotic checkpoint control and its function in tumorigenesis (*Mol. Cell* 2:163; *Genes & Dev.* 12:1871). Candidates should be self-motivated with a broad knowledge of cell biology, molecular biology, and biochemistry. Please submit a letter of application with your long-term career objectives, a copy of curriculum vitae, and three letters of recommendation to: Dr. Guowei Fang, Department of Biological Sciences, Stanford University, Stanford, CA 94305-5020. FAX: 650-725-5807; e-mail: gwfang@stanford.edu.

POSITIONS OPEN

ONE OR TWO FACULTY POSITION(S) CARDIOVASCULAR MOLECULAR BIOLOGY

The Cardiovascular Research Institute, housed in the University of South Dakota Health Sciences Center in Sioux Falls, invites applications for faculty-level position(s) available August 1, 2001. We will provide a unique opportunity for Investigators to explore the molecular mechanisms of ventricular remodeling in cardiac hypertrophy and congestive heart failure. Preferred areas of expertise include molecular biology, signal transduction, and transgenics. It is anticipated that the position(s) will be at the **ASSISTANT PROFESSOR** level but more senior individuals with NIH funding also will be considered. Minimal requirements include a Doctoral degree (Ph.D., M.D., or equivalent) and two years of postdoctoral training. A salary and start-up package commensurate with qualifications will be provided. Sioux Falls is an affordable, highly rated small city with a low crime rate, quality schools, and excellent health care. Review of applications will begin May 15, 2001, and continue until position is filled. Applicants should submit curriculum vitae, three reference letters, and a brief summary of research interests and goals to: Dr. A. Martin Gerdes, Director, South Dakota Cardiovascular Research Institute, University of South Dakota Health Sciences Center, 1400 West 22nd Street, Sioux Falls, SD 57105. E-mail: mgerdes@usd.edu.

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SENIOR ENGINEER

South Florida Water Management District
West Palm Beach, Florida

Experienced Engineer needed to manage complex, multiphased engineering studies for the Lake Okeechobee environmental restoration program that involves significant coordination with internal departments, external agencies and contractors, and leading public outreach efforts. Serves as contract and project manager for water resources studies related to Lake Okeechobee watershed including evaluating sediment management feasibility (using innovative dredging method) and evaluating dike stabilization methods. Resolves problems related to hydrology, hydraulics, hydrodynamics, water quality, and associated ecological impacts. B.S. in environmental engineering or related water resources (e.g., hydrology) discipline; more than four years of experience in water quality-related projects; and FL PE license. Starting salary: \$46,072 to \$58,698 depending upon qualifications. Job Reference Number 201195. Apply to e-mail: hrprofjnl@sfwmd.gov; include Job Reference Number 201195 Please visit our website: www.sfwmd.gov.

South Florida Water Management District
6520 Human Resources
P.O. Box 24680
West Palm Beach, FL 33416
FAX: 561-682-5100

POSTDOCTORAL POSITION available beginning fall 2001 to study ligand-gated ion channels and/or synaptogenesis in the mammalian auditory system. We use a combination approach to study the inner ear encompassing molecular biology, developmental biology, physiology, and various anatomical techniques. Experience with the generation and use of mouse transgenic systems, along with a desire to expand one's repertoire of modern biological techniques, is a plus. To apply, please send curriculum vitae; statement of research interests; and names, telephone numbers, and e-mail addresses of three references to:

Dr. Douglas E. Vetter
Tufts University School of Medicine
Department of Neuroscience
136 Harrison Avenue
Boston, MA 02111
E-mail: douglas.vetter@tufts.edu

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Scientist/Sr. Scientist

We are looking for a Cell Biologist with experience in mammalian cell biology to make a major impact by leading our lab group and contributing with other scientists in discovery biology to an area of therapeutic focus. Your research interests should include the study of cell cycle, protein trafficking, membrane lipid rafting, or cell-cell interactions. Requires a PhD and 5+ years of postdoctoral training. You must have a demonstrated publication record of creativity and productivity and a keen interest in pursuing cell biology research to develop or improve therapeutic agents. Job Code: 3409-SCI

Scientist

Working in our Molecular Biology department, you will lead a group to develop and apply cutting-edge gene expression technology to the study of human disease and elucidation of function of novel genes. You will use your skills in Molecular Biology, Genomics and computational analysis. Requires a PhD, 3+ years postdoctoral experience, and a proven track record in training and publications. Excellent communication skills are essential, and project management or group leadership is a plus. Job Code: 2812-SCI

Research Associate/Sr. Research Associate

Participating in discovery research to find novel therapeutic targets for treating chronic inflammatory diseases, you will study the biology of selected immune molecules *in vitro* and *in vivo* using a variety of molecular and cell biology techniques. Requires a BS/MS in Cell and/or Molecular Biology and 3+ years of relevant research experience. Strong knowledge of common molecular and cell biology techniques is required and excellent communication skills are necessary. Job Code: 3491-SCI

Inquire Within

passion

initiative

creativity

Research Assistants/Associates (several positions available)

Working with a team to develop and apply methods for microarray analysis of gene expression, you will apply novel microarray technology to study gene expression patterns in human disease. Using your knowledge in molecular biology, including RNA purification, cDNA synthesis, and PCR, your focus will be microarray fabrication and data acquisition and analysis. Experience with genomic or high-throughput screening techniques is an advantage. Requires a BS/MS in Biology, Molecular Biology, Biochemistry, Genetics or a related field, at least 1 year of lab experience and 3-5 years of postgraduate experience with a demonstrated record of accomplishment. Excellent communication, analytical and interpersonal skills are required. Experience in bioinformatics and molecular biology techniques is required; cell culture experience is a plus. Job Code: EHB13-SCI

To apply, please email your resume, indicating the appropriate Job Code, to ehb@gene.com (place Job Code in the subject field; ASCII files only). Or mail to Genentech, Inc., Attn: H. Butler, PO Box 1950, South San Francisco, CA 94083-1950. Genentech is an Equal Opportunity Employer.

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MOLECULAR BIOLOGIST Ph.D.

Ad Code #01-2824

The successful candidate will possess a Ph.D. in Molecular Biology, Biochemistry, Cell Biology or related field combined with 2+ years experience working in the area of Nuclear Receptors. Strong understanding of the molecular mechanisms involved in Nuclear Receptor function as well as the biology of Steroid Receptors and/or Orphan Receptors involved in lipid metabolism/inflammation/CNS/oncology required. The ability to direct this knowledge towards the design and identification of novel nuclear receptor drugs a must. Excellent communication skills, ability to work in a team environment along with meeting aggressive timelines preferred. Proven track record of innovative research and scientific publications in the field of nuclear receptors is essential to your success. **Ad Code:** <http://respond.webhire.com/job/id?479-r2824-J2>

GROUP LEADER MOLECULAR BIOLOGIST

Ad Code #00-1326

We seek a highly motivated and experienced molecular biologist to lead a state-of-the-art transcriptional profiling group. This group, which is a key component of Pharmacia's global biotechnology platform, is responsible for micro array applications, quantitative PCR and differential display technologies. Although the primary responsibility of the group will be to drive the application and impact of expression profiling analyses in the St. Louis-based inflammation, cardiovascular and oncology research groups, it also interacts closely with other Pharmacia research groups in Kalamazoo, Michigan and Nerviano, Italy. Requires a Ph.D. in Molecular Biology or related scientific area along with demonstrated expertise in micro array technology applications as well as the ability to work in a results-oriented environment and collaborate with scientists within the therapeutic area groups and those in the bioinformatics and functional genomics teams. Excellent interpersonal/written communication essential. **Ad Code:** <http://respond.webhire.com/job/id?479-r1326-J3>

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Scientific Program Managers

NIH Extramural Research Administration

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) is seeking scientists (M.D., Ph.D. or equivalent) for three extramural scientific management positions in the Division of Diabetes, Endocrinology and Metabolic Diseases (DDEM). Each position includes responsibility for planning, developing, directing, and evaluating program activities for a portfolio of research grants. The program director will also provide scientific expertise within the Division, the NIDDK and the NIH.

Signaling: Expertise is sought in molecular endocrinology and/or cell biology for a position to manage a program of grants focused on concepts of cell signaling, with emphasis on cell surface receptors, specifically including the insulin receptor, G-protein coupled receptors, and growth/cytokine receptors.

Proteomics: Expertise is sought in protein chemistry, molecular biology, quantitative biology, computational chemistry, pharmacogenomics, molecular analysis and/or bioinformatics to develop programs to foster the application of the wealth of knowledge emerging from ongoing genomics efforts to development of new understanding and treatments of diabetes and other endocrine and metabolic diseases.

Animal Models: Expertise is sought in genetics, model organisms, and molecular/physiological phenotyping to develop programs designed to enhance the use of model organisms and animal models for improved understanding and treatment of diabetes and other endocrine and metabolic diseases.

Each of these positions involves close interaction with leading researchers, scientific administration of grants and contracts, program planning and development, and the opportunity to organize and attend scientific meetings. The successful candidate will have independent research experience, with a track record of publications in areas of biomedical science relevant to the objectives of each program, excellent interpersonal and written communications skills, the ability to identify research priorities and opportunities, and the ability to track and analyze the success of initiatives and programs.

Salary and benefits will be competitive and commensurate with experience.

This position is located in the Division of Diabetes, Endocrinology, and Metabolic Diseases, at NIDDK. An overview of areas of science encompassed within the Division and current initiatives to expand research can be found at <http://www.niddk.nih.gov/fund/divisions/DEM/DEMintro.htm>.

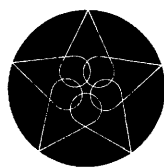
The vacancy announcements and related qualification information can be obtained by calling (301) 496-4231 or by accessing the NIH Jobs page (<http://job.nih.gov>). The job announcements for each of these positions may be found on the Career page at <http://careerhere.nih.gov/> and go to current vacancies. See also citizenship and resident alien requirements for appointment discussed in the online announcement.

The deadline for applications is May 31, 2001. Submit a CV, bibliography, and supplemental qualifications statement to: Mr. Ronald Sleyo, HR Consultant, Office of Human Resource Management; NIDDK, NIH; II Democracy Plaza, 6701 Democracy Blvd., Suite 700N, MSC 5451, Bethesda, MD 20892. Email: sleyor@extra.niddk.nih.gov

U.S. Citizenship is Required

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NIH
National Institute
of Mental Health



Texas Biotechnology Corporation has an established record of drug discovery and development of small molecule therapeutics for the treatment of diverse diseases. Texas Biotechnology Corporation is seeking several individuals with the creativity and drive to contribute to drug discovery research as members of multidisciplinary teams.

Senior Scientist, Drug Discovery

Seeking a highly motivated scientist to develop a research project focused on drug discovery in the Company's existing apoptosis program. 2+ years of post-doctoral experience in signaling using molecular biology, biochemistry, cell biology or related disciplines is required with supporting publications and presentations. Demonstrated experience in cell-free and cell-based assays is highly desirable. Excellent communication, writing and interpersonal skills are essential. (Job Code: LD-2001)

Computational Biologist, Bioinformatics

Seeking a highly motivated individual to design internal databases by assimilating public domain and proprietary data related to gene/protein families, cell signaling pathways and gene-disease correlations. Position requires a broad knowledge of biology as well as an in depth understanding of bioinformatic tools and ability to build user-friendly software tools for data analysis. We require a Ph.D. and 2+ years experience with expertise in the following applications: Java, C/C++, pl/SQL, object-oriented design, relational databases, or Perl. Excellent communication, writing and interpersonal skills are essential. (Job Code: SC-2001)

Scientist/Senior Scientist, Discovery Biology

Seeking a highly motivated individual to work in a challenging team environment focused on post-genomic target discovery and validation in inflammatory and cardiovascular disease. A Ph.D. with relevant experience/publications in molecular/cellular biology required. Candidates with demonstrated expertise in characterizing transgenic animals and profiling gene/protein expression are particularly sought. Excellent communication, writing and interpersonal skills are essential. (Job Code: SC-2002)

Research Associate, High Throughput Screening

Seeking a highly motivated individual to develop and implement high throughput screening assays for drug discovery including enzymatic, ligand binding and cell-based formats. We require a BS/MS with 1+ year experience in biochemistry or cell biology and a demonstrated ability to work in a team environment. (Job Code CS-2001)

Research Associates, Drug Discovery

Qualifications include a BS/MS degree in biomedical science with at least 1 year of laboratory experience cloning genes and expressing proteins. (Job Code: LD-2002)

Texas Biotechnology Corporation is an equal opportunity employer that offers competitive compensation packages and a highly stimulating work environment. If you feel that you have the skill set we seek and are committed to teamwork, please send your resume to **Human Resources, Texas Biotechnology Corporation, 7000 Fannin, Houston, TX 77030**. Please include job code with your resume. To learn more visit our website at www.tbc.com.



Gene Regulation Institute of Molecular Medicine and Genetics Medical College of Georgia Tenure track faculty position

We seek an outstanding individual to join an interdisciplinary group of investigators studying gene regulation as it relates to cancer. Areas of particular interest include environmentally induced genome instability, functional genomics and proteomics, and structural biology of macromolecular assemblies. Current research strengths span areas of double-strand break repair, p53, V(D)J recombination, and molecular chaperones. Candidates should have a Ph.D. or M.D./Ph.D. degree, postdoctoral experience, and a demonstrated capacity to perform creative and original research within one of our targeted areas. We encourage research that will take advantage of core facilities for proteomics, microarray technology, cell imaging, and genetically modified animals (mouse and zebrafish). The successful candidate will be expected to develop a vigorous extramurally funded research program. This recruitment is part of a statewide cancer initiative that will bring more than 150 new scientists to Georgia over a 5 year period. We offer a generous start-up package and outstanding facilities in a growing state-supported academic medical center. The Medical College is located in a historic city of 200,000 people with excellent recreational and lifestyle opportunities. Review of applications will begin May 31, 2001, and will continue until the position is filled. Preference will be given to applicants at the Assistant Professor level, but applicants who are more senior will be considered.

Send curriculum vitae, names of three references, and a summary of research plans to: **W.S. Dynan, Program in Gene Regulation, IMMAG Room CB-2803, Medical College of Georgia, 1120 15th Street, Augusta, GA 30912**. AC# 41206/PO# E-01161859. Further information: wdynan@mail.mcg.edu or www.mcg.edu/Institutes/IMMAG.

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1 Science, June 2000, BPA Publisher's Statement
2 Science Harvey Research Readership surveys
14 January 2000, 4 February 2000, 4 June 1999
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For information, contact Daryl Anderson

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Achillion Pharmaceuticals is a young and dynamic company committed to the discovery and development of innovative agents to treat diseases caused by infective agents, including hepatitis, herpes, and the human immunodeficiency viruses. Achillion's drug discovery engine embodies a validated medicinal chemistry approach directed at classical molecular targets and a core Zinc Finger Targeting technology. Achillion, which currently has multiple product candidates in clinical and pre-clinical development, is seeking a number of highly motivated individuals who are creative, independent problem solvers able to work effectively in a dynamic Discovery team environment. Please visit our website, www.achillion.com, for additional information on Achillion's technology and more detailed descriptions of available opportunities.

Director, Medicinal Chemistry: Achillion is seeking an accomplished and innovative chemist to lead a group of medicinal chemists working on the design, preparation, and optimization of small molecule therapeutics targeted to zinc finger-containing proteins and peptides. Broad experience and a record of accomplishment in medicinal chemistry are required. Significant experience in an industry environment as a leader in a drug discovery team is highly desirable.

Medicinal and Bioanalytical Chemistry: Several medicinal chemist positions at junior and senior levels are open. Chemists will be a part of a group of medicinal and computational chemists seeking to design, optimize, and synthesize novel anti-infective agents utilizing both classical medicinal chemistry and modern combinatorial chemistry. Achillion is also seeking an experienced bioanalytical chemist to support discovery of new chemical entities in the medicinal chemistry area and to perform analyses of novel pharmaceutical entities and their metabolites in biological fluids.

Molecular Biology/Biochemistry: Positions are open for Associate level scientists to join our molecular biology/biochemistry team focused on the identification and characterization of molecular targets and the development of assays to screen small molecule therapeutics for modulation of zinc finger-protein interactions.

Computational Chemistry & Informatics: To assist our interdisciplinary team in target discovery and elucidation as well as compound design and optimization, Achillion is searching for experienced computational biologists, chemoinformaticians and computational chemists. Additionally, an experienced scientific applications developer/programmer with broad platform expertise is desired.

Located in New Haven, CT, Achillion offers highly competitive compensation and benefits packages. Along with an exciting work environment, Achillion provides its employees with the opportunity to participate in a challenging and rewarding drug discovery and development company. For prompt consideration, please mail your CV, indicating the position of interest and the names of three references to:

**Human Resources
Achillion Pharmaceuticals
300 George St.
New Haven, CT 06510**

POSTGENOMIC RESEARCH IN COPENHAGEN

Director, BRIC (Biotech Research and Innovation Centre)



The Danish Government has decided to establish a Biotech Research and Innovation Centre (BRIC) in Copenhagen. BRIC is established to strengthen the growing biotechnological/biomedical focus in Copenhagen. Research will be directed towards important and challenging biological questions and establishment of state of the art technologies.

BRIC will be located in a new 28,000 sq. meter research building housing also the University of Copenhagen Institute of Molecular Biology and the Copenhagen Hospital Cooperation (HS) cancer research activities. BRIC will be situated in 7,500 sq. meter of new laboratories on the top floors of the complex.

The Director will provide leadership and overall scientific direction for 150-200 scientists and technicians engaged in a range of research activities embracing transgene technology, regulation of gene expression, bioinformatics and functional analysis. The objective is to increase the understanding of fundamental cell science and to maximise the application of such investigations in the post-genomic era.

The Director should be an outstanding scientist with the vision and breadth to identify key issues in molecular and cell biology, as well as the leadership skills necessary to organise BRIC's research activities. The Director will be expected to continue his/her own research programme. The success criteria will include research excellence and the

ability to select and develop post-doctoral scientists. Strong scientific acumen and stature in the fields of molecular/cell biology or bioinformatics are essential. It is intended that the Director will hold the position and title of a full professorship at University of Copenhagen in addition to the position as Director of BRIC on a 5-year renewable contract. The Director will report to the BRIC Board of Directors.

For further information, visit www.bric.dk or contact the Chairman of the Board, Dr. Claus Braestrup, H. Lundbeck A/S, +45 4050 8050, E-mail: cb@lundbeck.com

Applications including a full C.V. with list of publications etc. and a statement on future research concepts and ideas should be submitted by July 1, 2001 to:

**BRIC
c/o Dr. Claus Braestrup
H. Lundbeck A/S
Ottiliavej 9
DK-2500 Valby
Denmark**

The Øresund region – including the Medicon Valley – is the centre of medico / human life science research in Scandinavia. For more information on the region and some of the research institutions involved in BRIC please refer to www.mva.org, www.copcap.com, www.woco.dk, www.ku.dk, www.dtu.dk, www.kvl.dk, www.risoe.dk, www.hosp.dk and www.svs.dk.

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The School of Industrial and Manufacturing Science is seeking to appoint a Lecturer and a Research Fellow to expand and complement their activities in the fields of ultra precision technology and nanotechnology.

Applications are invited from academics or industrial researchers with strong research backgrounds and an interest in teaching in these general areas, covering (but not limited to) such topics as ultraprecision engineering, nanometrology, nanophotonics, NEMS, MEMS, nanoscale materials, SPM, self-organising systems, atomistic modelling of materials etc.

The successful candidates will join an existing strong activity that is endowed with excellent research facilities. They will be expected to drive their own research into new areas and to obtain funding for their research. Both will be expected to contribute to the development of a new Masters Training Package in Microsystems and Nanotechnology starting in October 2001 and the Lecturer will be expected to take a leading role in this.

Applicants should have a minimum of 2 years post-doctoral research experience in their chosen field and have demonstrated their research abilities through a good publication record.

Both appointments will be limited in term to 3 years in the first instance, with the potential for permanence depending on performance.

For an informal discussion please contact Professor Roger W. Whatmore on Tel: (01234) 754057. Email: r.w.whatmore@cranfield.ac.uk

Application forms and further details are available from the Personnel Department, Cranfield University, Cranfield, Beds, MK43 0AL. Email: personnel@cranfield.ac.uk Alternatively, telephone our 24 hour Recruitment Line on (01234) 750111 extension 2000, <http://www.cranfield.ac.uk/admin/personnel>, quoting C/1048A for the Lecturer position and C/0149A for the Research Fellow position.

Closing date for receipt of applications: 11 May 2001.

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Application Specialist — We are seeking a people orientated Application Specialist who is excited to present cutting edge technology to our customer base. You will conduct demonstrations of Mass Spectrometry products to prospective clients and be required to interact with customers to establish their analysis needs, analyze customer samples, provide reports to customers on the analysis of their samples. You will also provide assistance in running customer training classes on the MALDI-TOF products, especially of a specialist nature (for example on Proteomics or on SNP analyses). In addition you will contribute in the development of new applications for the Mass Spectrometry product line including writing application notes to highlight product capabilities, and making contributions to recognized scientific forums. You will also be responsible for providing the necessary application related material for training field personnel, as well as testing and evaluating new products prior to release and provide feedback on products.

The ideal candidate will possess excellent presentation skills and have 1-5 years of laboratory experience in the field of biological MS and practical experience of MALDI MS and/or experience of PCR techniques and DNA sequence detection systems. This position requires flexibility in working hours and some business travel. A BS degree is required, a Ph.D. preferred.

Send resume in confidence to: **Applied Biosystems**,
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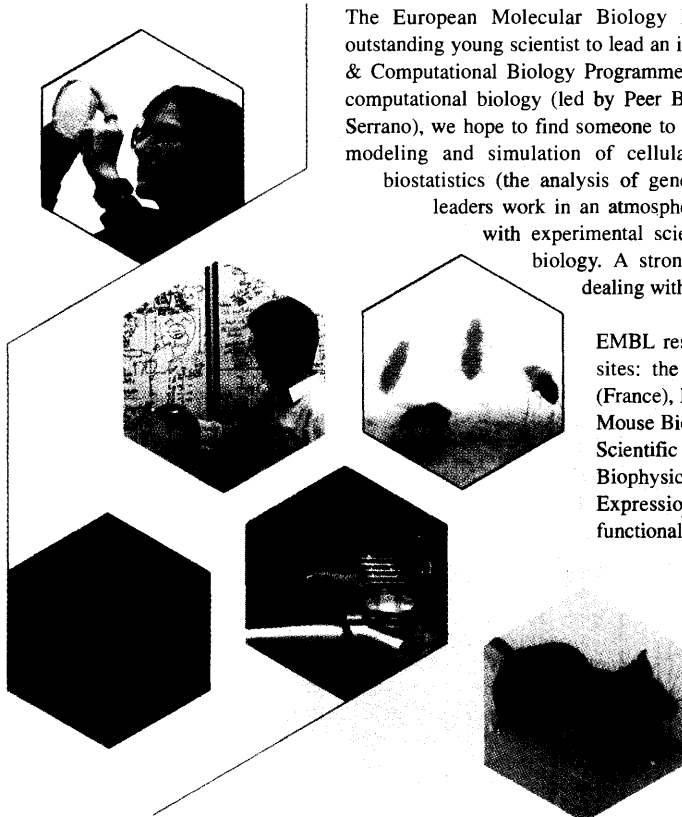
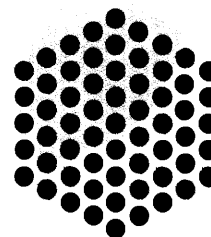
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Group Leader in Computational Biology at EMBL



The European Molecular Biology Laboratory (EMBL) is looking for an outstanding young scientist to lead an independent research group in its Structural & Computational Biology Programme. To complement our current activities in computational biology (led by Peer Bork, Toby Gibson, Rob Russell and Luis Serrano), we hope to find someone to work on problems in systems biology (the modeling and simulation of cellular networks and regulatory processes) or biostatistics (the analysis of gene and protein expression patterns). EMBL group leaders work in an atmosphere of great intellectual freedom and close collaboration with experimental scientists across the whole spectrum of molecular and cellular biology. A strong emphasis is placed on creative, interdisciplinary approaches to dealing with current biological questions.

EMBL researchers have access to the expertise and facilities of all the EMBL sites: the Main Laboratory in Heidelberg; Outstations situated in Grenoble (France), Hamburg (Germany) and Hinxton (UK), and a Research Programme in Mouse Biology in Monterotondo (Italy). Research in Heidelberg consists of five Scientific Programmes: Structural & Computational Biology, Cell Biology and Biophysics, Developmental Biology, Biochemical Instrumentation and Gene Expression. There are also several interdisciplinary initiatives, including functional genomics and molecular medicine.

Structural & Computational Biology includes research groups who use X-ray crystallography, NMR spectroscopy and high-resolution electron microscopy, supported by broad expertise in biochemistry and molecular biology, to explore biological problems.

Applicants should have postdoctoral experience and an excellent research record. Candidates should contact Matti Saraste or Peer Bork for further information (saraste@embl-heidelberg.de or bork@embl-heidelberg.de), or visit <http://www.embl-heidelberg.de/>

The Department of Molecular and Medical Pharmacology of the UCLA School of Medicine is recruiting for Assistant and Associate Professors with established research programs at the interfaces of chemistry, pharmacology, cell biology and organismal biology.

We particularly encourage applications from individuals with experience and plans for research programs that utilize high-throughput screens on cell arrays, protein arrays and other post-genomic and proteomics platforms to investigate specific biological questions. Individuals with interests in areas such as novel cancer therapeutics, development of cell/gene targeted drug therapies, molecular imaging probes, molecular and targeted DNA delivery systems would be examples of appropriate candidates.

Research interests of current faculty in the Department of Molecular and Medical Pharmacology include, Cancer Biology, Cellular and *in vivo* Molecular Imaging, Cardiovascular Systems, Chemical Pharmacology, Gene Therapy, Immunology, Virology, Ion Channels and Second Messenger Systems, Neuropharmacology, Neuroscience, Regulation of Gene Expression and Synthetic Chemistry. For additional information see our web site: <http://www.nuc.ucla.edu>.

Applicants should send an introductory letter, a curriculum vita, a statement of past research history and a description of research interests for the next five years to:

Ms. Judy Amos
Department of Molecular & Medical Pharmacology
UCLA School of Medicine
Box 951735
Los Angeles, CA 90095-1735

Applicants should also arrange for three reference letters to be sent to Ms. Amos, or – for reasons of confidentiality for more senior applicants – provide the names, addresses, phone numbers and e-mail addresses of references. Application materials should be received by June 1, 2001.

UCLA is an equal opportunity employer and encourages women and minorities to apply.

DYNAMIC AND REWARDING LEADERSHIP OPPORTUNITY AT NIH

Make a difference in the world of science! Work in an exciting biomedical research atmosphere as a team member in the national effort to reduce and prevent heart, pulmonary, and vascular diseases. The Office of Administrative Management, National Heart, Lung, and Blood Institute, National Institutes of Health, is looking for a dynamic leader for its Office of Technology Transfer and Development (OTTAD). The incumbent serves as the OTTAD Director and leads the NHLBI technology transfer team in the day-to-day operations of the Technology Transfer Service Center (TTSC), which include: providing effective leadership and direction in managing the Institute's national program of technology transfer and development; providing expert advice to the Institute Director, key staff, the scientific community, academia, Federal and non-Federal organizations on the development and management of intellectual property, licensing and patents, and the negotiation of collaborative agreements and service center contracts; providing and overseeing services to clients of the NHLBI, TTSC; and, supporting the NIH EEO program as well as the Institute's Affirmative Action Program, Work Place Diversity Initiative, and EEO complaint resolution programs.

Salary range \$74,697-\$114,224. Benefits include excellent health, life, retirement investment, and vacation/sick days. Modern suburban office environment in Bethesda, Maryland, on bus route, metro stop, immediate access to I-270 and I-495, free parking, on-site cafeterias, fitness center, credit union, and bank.

Interested individuals should submit a cover letter and curriculum vitae, resume, SF-171, or OF-612, and the names/addresses/telephone numbers of three references by May 14, 2001 to: **Robin Easter, Personnel Mgmt. Br., National Heart, Lung, and Blood Institute, National Institutes of Health, 31 Center Drive, MSC 2484, Building 31, Rm. 5A28, Bethesda, Maryland 20892-2484, or electronically to: easter@nhlbi.nih.gov**. Please reference vacancy number HL-01-0041. Complete information and KSAs to be addressed can be obtained by calling the FAX-back system on 301-594-2953 and using FAX ID # 4036. You can also visit the NHLBI website at www.nhlbi.nih.gov and the NIH website at www.nih.gov.

NIH/NHLBI IS AN EQUAL OPPORTUNITY EMPLOYER



CANCER RESEARCH FUND
of the Damon Runyon-Walter Winchell Foundation

SCHOLAR AWARD

Funding Opportunity for Assistant Professors

The Cancer Research Fund of the Damon Runyon-Walter Winchell Foundation announces new eligibility rules for its Damon Runyon Scholar Award competition.

The Damon Runyon Scholar Award was established to support the development of outstanding biomedical scientists as independent investigators in the cancer field by ensuring the continuity of their research productivity at the critical transition from their research training to their first faculty position.

Five three-year Damon Runyon Scholar Awards of \$100,000 each year are granted to researchers who show exceptional promise of scientific accomplishment. Applications for the award must be submitted within the first three years of the initial faculty appointment.

All former Runyon-Winchell Fellows at the assistant professor level are eligible. In addition, basic or physician scientists at institutions *invited* by the Fund to submit a nomination may apply. The list of invited institutions and application materials may be obtained at www.cancerresearchfund.org or by calling the Award Programs Office at (212) 697-9550.

Application deadline: July 2, 2001



DIRECTOR
LUNAR AND PLANETARY INSTITUTE

A search is being conducted for a Director of the Lunar and Planetary Institute (LPI). The Institute, established in 1968, is chartered to conduct and support research on the formation, evolution, and current state of the solar system and its constituent parts, as well as to assist in planning and execution of the robotic and human exploration of the solar system.

The Institute, funded by NASA through a contract with Universities Space Research Association, serves as a focal point for lunar and planetary science activities, and seeks to encourage participation of scientists from the United States and other countries in solar system exploration. The Institute is a leader in education and public outreach through a variety of activities, and is a Broker/Facilitator in NASA's Office of Space Science Education network. A key role played by the Institute is support of topical workshops and conferences related to planetary sciences. These efforts have led to the establishment of new programs, such as NASA's Origins Program.

Salaries and benefits are competitive and attractive, and will depend upon an individual's qualifications. Applicants should have experience in one or more of the research areas of interest to the Institute, a proven record of research excellence, evidence of administrative skills, and potential for research leadership.

Apply no later than May 28, 2001. An application, containing a complete resume on academic, professional, and personal data, including three references, should be sent to: **W. D. Cummings, Executive Director, Universities Space Research Association, 10227 Wincopin Circle, Suite 212, Columbia, MD 21044.** Applicants should also include a one-page statement of their vision for the future of the LPI, and what steps he/she would take to achieve that vision. Further information regarding the LPI and USRA may be found at <http://www.lpi.usra.edu> and <http://www.usra.edu>. EEO



FACULTY POSITIONS AVAILABLE
Biotechnology and Bioengineering
UNIVERSITY OF ARIZONA

Assistant/Associate Professor (tenure-eligible) The University of Arizona seeks candidates for tenure-eligible faculty positions. Candidates must have a Ph.D. or equivalent degree, excellent teaching skills, and an interest in multi-disciplinary research and education. The successful applicants will have demonstrated the ability to forge collaborative research efforts at the interface between Engineering, Medicine and Applied Life Sciences. Appointment of these new faculties represents part of the University of Arizona's continued expansion of educational and research activities in Biotechnology and Bioengineering. The close proximity of laboratory and teaching facilities of the Colleges of Engineering, Sciences and Medicine provides a rich environment for multi-disciplinary research activities.

The primary appointment of new faculty will be in an appropriate department in the College of Engineering and Mines or the Biomedical Engineering Program of the Arizona Research Laboratories. Secondary appointment(s) will be established depending on the individual. Applicants with a background and interest in biomaterials will be considered for a position that is shared between the Departments of Chemical Engineering and Materials Science & Engineering. The faculty member will be expected to teach at the undergraduate and graduate levels and initiate an independent research program.

The area of research focus is anticipated to be in one or more of the following areas:

- Biomaterials
- Applied Cardiovascular Biology
- Tissue Engineering
- Micro and Nano-technology
- Genomics, Proteomics and Bioinformatics
- Biomedical Imaging and Bioinstrumentation

Interested candidates should provide a complete curriculum vitae, a description of research interests, and names and addresses of at least three references. Applications should be sent to: **Dr. Stuart Williams, Chair, Biotechnology and Bioengineering Search Committee, University of Arizona, P.O. Box 245084, Tucson, AZ 85724** E-mail skwill@u.arizona.edu. The review process is currently ongoing and will continue until the positions are filled.

The University of Arizona is an Equal Opportunity/Affirmative Action Employer-M/W/D/V

Science

ASSOCIATE EDITOR

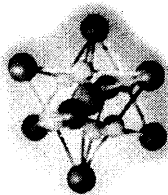
An editorial position at *Science* is available for a Ph.D. scientist with research experience in the biological sciences and a broad range of interests. Applicants should have publications in peer-reviewed journals. Postdoctoral experience is preferred. This position offers an exciting opportunity to explore new uses of information technology and innovations in communicating science to audiences ranging from the professional scientist to students and educators to the general public. Interest in developing innovative approaches to electronic publishing and education is desired. Editors have varied responsibilities including identifying authors, selecting manuscripts for publication, writing, and editing content. Previous editorial experience is not required. This is a 1-year full-time position in our Washington, DC, office. Extension is possible contingent on continued grant support or other funding.

Applicants should send their curriculum vitae, a cover letter describing their qualifications and salary requirements, and contact information for three references to:

AAAS
Human Resources Department, Suite #100
1200 New York Avenue, NW
Washington, DC 20005

e-mail: HR-temp@aaas.org

EOE/Nonsmoking work environment



SEATTLE

ZymoGenetics, Inc. is a targeted bioinformatics-driven company dedicated to the discovery and development of novel therapeutic agents used in the treatment and prevention of human illness.

ZymoGenetics' successful track record of protein discovery and genetic engineering place it among the leading biotech companies.

We are currently seeking the following positions for our headquarters in Seattle's historic Lake Union Steam Plant.

SCIENTIST/SR. SCIENTIST - #45N101

We are currently seeking an enthusiastic, team-oriented Scientist to join our immunoassay group. The successful candidate will be trained in immunology, biochemistry, genetics or a related discipline. The qualified individual will have hands-on experience in the generation, characterization, and application of immunological reagents in a variety of assay formats. This individual will work in a team-oriented environment, developing immunological and cell based assays to support both research and early development. Relevant experience would include familiarity with binding assays and kinetics, ELISA development, BioCore analysis, and epitope mapping. Qualified applicants will possess a BS-MS/Ph.D. in the Life Sciences or related field with several years of relevant experience.

SCIENTIST/SR. SCIENTIST - #39R101

We are seeking a Scientist with a strong record of discovery-based research to join our Cytokine Biology group. The candidate will be expected to identify and characterize the biology of molecules that may lead to novel therapeutics for the treatment of autoimmunity, inflammation or cancer. This position will participate in both basic and applied research projects ranging from the discovery of molecules that impact cytokine biology to testing of proprietary molecules in appropriate animal models of disease. Competitive applicants will have expertise in one or more of the following areas: immunology, hematopoiesis, inflammation, and cancer. Experience and understanding of animal models of immunological disease or immunodeficiency is an advantage. Excellent communication skills coupled with the ability to work in a fast-paced collaborative team environment are essential. The ideal candidate will have 5-10 years of laboratory experience in the pharmaceutical industry or in an academic medical context. This position requires a Ph.D. in a relevant scientific discipline or a M.D. followed by post-doctoral research experience.

SCIENTIST/SR. SCIENTIST - #33N101

We are seeking an experienced Scientist/Senior Scientist level protein chemist with a high degree of expertise and experience in all classical and novel purification methods and technologies (HPLC, ion-exchange, hydrophobic interaction, size exclusion, affinity chromatography) for the purification of recombinant protein derived from a variety of expression systems. A proven track record in purification of recombinant proteins for discovery and research is required and industrial experience in this field will be preferred. Qualified candidates will be able to work with minimal supervision in a team-oriented environment. Strong communication skills are essential. The position requires a high degree of innovation and competency while working under significant and changing time constraints, resources and priorities.

We offer intellectual challenge, state-of-the-art facilities and a generous benefits package in a growth-oriented environment. For confidential consideration, send your resume and cover letter to ZymoGenetics, Human Resources - Job #____, 1201 Eastlake Avenue East, Seattle, WA 98102; Fax: (206) 442-6658; E-mail: jobs@zgi.com. We are an equal opportunity employer and encourage applications from women and minorities.

WWW.ZYMOGENETICS.COM

ZYMOGENETICS



MOUNT SINAI
SCHOOL OF
MEDICINE

IMAGING RESEARCH DIRECTOR

ADVANCED IMAGING PROGRAM

DEPARTMENT OF RADIOLOGY

The Mount Sinai School of Medicine currently seeks a dynamic, nationally recognized leader for an expanding imaging physics group. The candidate should have a proven record of grant support in multidisciplinary research, as well as proven ability to direct an advanced imaging research program in a medical environment that will be one of the key stones of the Advanced Imaging Program (AIP) strategic initiative at Mount Sinai.

There is presently an excellent team of MR scientists, X-ray physicists, research technologists, graduate students, research coordinators, a coil designer, and a committed group of clinician scientists in the Department of Radiology. There is extensive interaction among imaging investigators in Radiology, Cardiology, Psychiatry, and the Neurosciences that has resulted in a robust environment of collaboration and translation. In addition to our state of the art clinical facility, which includes multiple 1.5T MR systems (4), helical CT scanners (6), ultrasound units (10), single and biplane angiography systems with 3D capabilities (4), PET (1) and SPECT (5) scanners, and a newly purchased total department (250,000 studies/year) PACS system, a dedicated imaging research facility includes a 9.4T MR microscopy system, 1.5T whole body and 3.0T head dedicated research MR systems (delivery July 2001), a brain PET system, a multislice dedicated research CT scanner (delivery July 2001), and multiple image analysis workstations. The Mount Sinai School of Medicine Strategic Plan includes the opening in 2004 of an 18-story Translational Research Building, which will include greater than 10,000 square feet for the imaging research program.

This position provides a unique opportunity for an experienced, ambitious investigator who wants to develop a world class translational, imaging research program in a thriving medical school. Mount Sinai Medical Center is located next to Central Park in the Upper East Side of Manhattan and New York City offers all of the stimulating benefits of living in one of the most vibrant metropolitan centers in the world.

Academic rank is commensurate with the experience and accomplishments of the individual, but applicants will most likely be at the Associate Professor or Professor level. We offer an excellent salary and benefits package. For consideration, please forward your Curriculum Vitae to: **Peter Som, M.D., Search Committee Chair, Imaging Physics Search Committee, Mount Sinai School of Medicine, Department of Radiology, Box 1234, One Gustave L. Levy Place, New York, NY 10029-6574.** We are an equal opportunity employer fostering diversity in the workplace.

UofL Health Sciences Center

Assistant Professor Molecular Biology of Cell Death/ Neuroimmunology of CNS Injury

The Kentucky Spinal Cord Injury Research Center at the University of Louisville School of Medicine is seeking to fill a tenure track faculty position in the areas of the molecular biology of cell death and/or the immunology of CNS injury. All areas of research that fall under these broad areas will be considered. The Assistant Professor will join existing faculty with expertise in CNS injury and regeneration, stem cells, and spinal cord motor and sensory systems. Primary appointment will be in the Department of Neurological Surgery with a joint appointment in an appropriate basic science department. A competitive start up package, salary, and benefits will be provided. A substantial endowment will support this position in perpetuity. Applicants should have a Ph.D. and/or M.D. with at least 3 years of post-doctoral experience.

Send curriculum vitae, a brief letter of research direction(s), and the names of a least 3 references to: **Christopher B. Shields, M.D., Professor and Chairman, Department of Neurological Surgery, University of Louisville, 210 E. Gray St., Suite 1102, Louisville, KY 40202.**

*The University of Louisville is an Equal Opportunity/
Affirmative Action Employer and encourages applications
from women and minority groups.*



Max-Planck-Institute of Cognitive Neuroscience, Leipzig

The Max-Planck-Institute of Cognitive Neuroscience in Leipzig, Germany (Directors: Prof. A. D. Friederici and Prof. D. Y. von Cramon) has a position available for a

Head of MR-Physics

to head the MR-Group at the Institute. The position is open to both German and English speaking applicants. Expertise is required in anatomical imaging, functional imaging and proton spectroscopy applied to the human brain. The Institute possesses a 3T whole-body MR system.

The successful candidate should have significant experience in MR-imaging methods, and scientific management and be prepared to participate in inter-disciplinary projects. A first degree in the Natural Sciences, a relevant PhD, and post-doctoral experience are expected.

The salary scale will be according to BAT-O. The Head of MR-Physics will be responsible for supervising two post-doctoral scientists, PhD-students and technical support staff.

In order to increase the proportion of female staff members, applications from female scientists are particularly encouraged. Preference will be given to disabled persons with the same qualification.

Applications should be submitted before "P 6/01" within 3 weeks after publication to:

**Max-Planck-Institut für neuropsychologische Forschung
- Verwaltung -
Postfach 500355, D-04303 Leipzig, Germany**



Philip Morris U.S.A.

RESEARCH SCIENTIST Worldwide Scientific Affairs

Philip Morris USA seeks a highly qualified Research Scientist to join our Worldwide Scientific Affairs group in Richmond, VA.

Philip Morris USA has initiated an External Research Program which supports research at academic and medical research entities. The incumbent for this position will act as Project Monitor and will be responsible for following the progress of these studies. To facilitate this responsibility, the incumbent will also conduct site visits to the funded research entities to obtain progress updates and to provide an opportunity for an exchange of ideas and information between the investigator and Project Monitor. An additional expectation for the Project Monitor will be to assist research entities, when requested by them, in securing additional resources to facilitate completion of research goals.

This highly visible position will require an individual who possesses a unique combination of scientific/technical skills and interpersonal abilities. The incumbent must have the ability to effectively communicate and to maintain effective working relationships with the scientific community at Philip Morris and at the research entities. Specific experiential requirements include:

- A Doctoral Degree in the Life Sciences, Toxicology or a related field, plus a minimum of 2 years of relevant academic or industrial post-doctoral experience.
- Demonstrated experience in grant preparation, funding, contract research, status reporting and financial oversight, preferably regarding governmental (e.g. NIH) funding sources.
- Highly developed communication and relational management skills.

In addition to the challenges mentioned above, we offer an excellent compensation package, including a competitive base salary, comprehensive health/vision/dental insurance, participation in our deferred profit sharing and incentive compensation programs as well as a full relocation assistance package.

Philip Morris, USA is an Equal Opportunity/Affirmative Action employer.
(M/F/D/V) We support diversity in our workforce.

For immediate consideration, visit our web site: www.philipmorrisusa.com/careers. Select the "Search our Jobs" option, select the "Apply On Line" option, enter 676HS into the keyword search box, select the job and click "Apply Now."

If you do not have Internet access, call 866-2-JOIN PM and request that the necessary forms be mailed to you.

Philip Morris U.S.A.

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Saint Francis Hospital and Medical Center has again been recognized as one of the nation's top 100 hospitals by the HCIA-Sachs Institute for continuing to achieve excellence in patient care and overall performance. This prestigious ranking also makes us The Employer of Choice among healthcare professionals.

RESEARCH SCIENTIST (Full-Time)

This exciting position will be responsible for designing and implementing new research projects in bone cell/molecular biology. Duties include staff mentoring, writing scientific papers, experimental design and grants.

In addition to a Doctorate degree and a minimum of 2 years experience as a post doctoral fellow, the candidate must have demonstrated experience with molecular techniques.

We offer an excellent salary and benefits package. For consideration, please send/fax your resume to: **Dr. Ernesto Canalis, Director Department of Research, Saint Francis Hospital and Medical Center 114 Woodland Street, Hartford, CT 06105. Fax: 860-714-8053. TTY: 860-714-4447, E-mail: ecanalis@stfranciscare.org** Visit our website at <http://www.stfranciscare.org>

If you do not have access to the Internet, please contact the Human Resource Call Center at its toll-free number: 1-877-250-9570 24 hours a day, 7 days a week.



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Science Policy Fellowship In Environmental Health

National Institute of Environmental Health Sciences
National Institutes of Health
Research Triangle Park, NC

The NIEHS is accepting applications for two environmental health policy service fellowships that will provide the opportunity for accomplished and societally aware postdoctoral to mid-career scientists to participate in and contribute to the public policymaking process of the Federal government. The fellowship stipend is \$57,345, plus benefits and allowances for travel and offsite living expenses. Fellows will be appointed for 18 months, beginning in late September/early October 2001, and will choose 3-9 month rotational assignments working in NIEHS and other government agencies and in private sector science organizations. At least half of the 18-month fellowship period will be spent at the NIEHS and the National Toxicology Program in Research Triangle Park.

Applicants must have a Ph.D. or equivalent doctoral level degree and at least 3 years of post-doctoral professional experience that demonstrates exceptional competence in an area of science related to environment and health; outstanding written, oral and interpersonal skills; sensitivity toward political and social issues; and a strong interest and some experience in applying personal knowledge toward the solution of public health problems. Preference will be given to applicants who would ultimately be eligible for positions in government.

Applications must include the following: (1) cover letter; (2) Curriculum Vitae; (3) a candidate statement, not exceeding 1000 words, that addresses why the fellowship is desired; how the candidate is qualified with respect to environmental science policy; what issues interest the candidate; what the candidate hopes to accomplish as a Fellow; and how the candidate hopes the fellowship will affect his/her career goals; and, (4) letters of reference from three persons who can discuss professional competence and other personal or professional qualities or interests making the applicant especially qualified to serve as a Fellow. References are considered confidential and must be mailed directly to NIEHS.

Applications, including letters of reference, must be received by June 1, 2001 and should be sent to NIEHS, Human Resources, Attn: Ayn Clayborne (HNV01-06), P.O. Box 12233 (MD EC-11), Research Triangle Park, NC 27709, or e-mailed to hr@niehs.nih.gov. Additional information is available on the Internet at www.niehs.nih.gov/vacancy/fellowship.htm. Contact: Sheila Newton, 919-541-4343, e-mail: newton1@niehs.nih.gov.

The National Institutes of Health is an equal opportunity employer

Staff Scientist Vascular Biology Branch Division of Intramural Research National Heart, Lung and Blood Institute National Institutes of Health, Bethesda, MD

The National Heart, Lung and Blood Institute (NHLBI), Division of Intramural Research seeks to hire a Staff Scientist to pursue research in interventional MRI within the Vascular Biology Branch. The incumbent must have a Ph.D. in biomedical engineering, computer science, or related disciplines and experience in MRI data acquisition and/or processing and image analysis; interventional MRI; pulse sequence design and programming; and/or cardiac imaging. The candidate will work closely with investigators and clinicians in the NHLBI Cardiology and Vascular Biology Branches and the Laboratory of Cardiac Energetics to design and refine interventional cardiovascular MRI. A new dedicated interventional suite combining x-ray angiography and a 1.5T MR system will be available full-time for performing experiments, as well as, state-of-art computer resources.

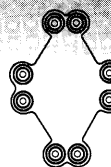
The successful candidate will be offered a competitive salary and benefits under Title 42. Applications must be received by **May 4, 2001**. Please submit a curriculum vitae and a brief statement of research interest along with three letters of reference to:

Ms. Kim Westervelt, Personnel Office
National Heart, Lung and Blood Institute
31 Center Drive, MSC 2484, Building 31, Room 5A28
Bethesda, MD 20892-2484
Westerveltk@nhlbi.nih.gov

Please include vacancy identifier, HL-01-0036, on **ALL** correspondence.

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Exelixis, Inc., a So. San Francisco leader in the discovery of high-quality novel targets for several major human diseases, and a leader in the discovery and development of new drug therapies specifically for cancer and other proliferative diseases.

Research Scientist, Pharmacology

You will develop and implement *in vivo* oncology and angiogenesis-related animal models and manage a pharmacology lab focused on *in vitro/in vivo* efficacy, high-throughput screening and PK studies to determine mechanisms of action and characterize selected leads. Requires a PhD or equivalent, 2+ years cancer research lab experience and working knowledge in angiogenesis, signal transduction and apoptosis pathways. Job #: 01-73

Research Scientist, Angiogenesis (Genetics)

Utilize *Drosophila* genetics and molecular biology techniques to characterize therapeutically important biochemical pathways. Requires an MS with 1+ years experience or PhD or equivalent. Strong background in the principles and practices of *Drosophila* genetics, as well as experience using basic molecular biology techniques, are required. Job #: 01-29

Research Scientist, Genetics

Participate in genetics analysis of the pathways involved in Alzheimer's disease and other neurodegenerative disorders. Requires a PhD or equivalent and postdoctoral or industry experience. Thorough training in *Drosophila* genetics and molecular techniques is also required. Job #: 01-61

Exelixis offers highly competitive salaries and benefits, generous equity participation, and a stimulating, highly interactive research setting that recognizes and rewards achievement. Please send your resume/CV to Exelixis, Inc., HR Department; Fax to (650) 837-7226; or email careers@exelixis.com. EOE.

Please visit our website at
www.exelixis.com
to view additional exciting career
opportunities and job descriptions

SUGEN Incorporated as part of *Pharmacia Corporation*, fosters a creative, energetic and team-oriented atmosphere to develop small molecule drugs to treat human diseases. Our continued success has created an excellent opportunity for experienced professionals to join our team.

Scientists & Research Associate Biochemistry (3 Positions)

We have several hiring needs in our Biochemistry Group for 2 Scientists and 1 Research Associate. The ideal candidates will have demonstrated experience in the purification and characterization of recombinant proteins for enzymatic, biochemical, biophysical and structural studies. Additional experience in protein engineering, protein structure-function studies, biophysical analysis of proteins-protein/ligand interactions (CD, ITC) or protein crystallization would be considered beneficial. The **Scientists** positions require a Ph.D. in biochemistry or related discipline with 2 plus years of postdoctoral experience. The **Research Associate** positions requires a BA in biochemistry or related discipline with 2 plus years of academic or industrial experience. (Job Code: AS50362SCI-MT for the **Scientists**; Job Code: AS50182-JR for the **Research Associate**)

Scientist Molecular Technologies

We are looking for a Ph.D. Molecular Biologist to lead our efforts in full-length gene cloning, library construction and screening, high-throughput site-directed mutagenesis, and new technology assessment. The ideal candidate will participate in the integration of our gene discovery/cloning efforts with downstream target validation research, using microarrays, pharmacogenomic and proteomic technologies. Very strong molecular biology skills and experience using bioinformatic tools for sequence analysis are essential. The successful candidate will have excellent communication skills and thrive in a core laboratory environment. (Job Code: RM50046SCI-JR)

Research Associate Proteomics/Mass Spectrometry

Research Associate to contribute in developing and implementing laboratory robotics and automation for various proteomics tasks in conjunction with mass spectrometry. Must have mass spectrometry experience with a BS/MS in biochemistry, chemistry or cell biology. (Job Code: FX50120SCI-JR)

Research Associate Proteomics/2D Gel

This person will be responsible for all aspects of 2D electrophoresis, including sample preparation, staining and image analysis. Requires a BS/MS and 2+ years of relevant experience. (Job Code: JS50333SCI-JR)

Scientist/Senior Research Associate Protein Chemistry

We are seeking a person to develop a group focused on sample preparation methods for proteomics. The ideal candidate will have experience with protein modification and purification, especially affinity chromatography. Knowledge of protein analysis by mass spectrometry is a plus. Good personal interaction skills are essential, as this person will collaborate with a number of SUGEN project teams. The ideal candidate will either have a recent Ph.D. in Biochemistry and 0-3 years of Postdoc experience, or a BS/MS and 5+ years of relevant experience with the proven ability to function independently. (Job Code: JS50229SCI-JR)

Sugen offers a very competitive compensation and benefit package, which includes a 401K employer match, anniversary awards, sabbatical and pension plan. Please forward your resume and cover letter to: **SUGEN, Inc., HR Department, Attn: (Job Code: _____), 230 East Grand Avenue, South San Francisco, CA 94080; FAX: (650) 837-3301; email: jobs@sugen.com (MS word doc only, include Job Code).**

Visit our website at www.SUGEN.com for other opportunities which include Scientists, Research Associates, Chemists, and I.T. Professionals. EOE

SUGEN



MOUNT SINAI
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FACULTY POSITION

The Institute for Gene Therapy and Molecular Medicine at Mount Sinai School of Medicine invites applications for the position of tenure-track Assistant Professor. Preference will be given to applicants using innovative biochemical and/or cellular approaches to fundamental and functional aspects of transcription activation and regulation in mammalian systems. All candidates must have a PhD, MD, or MD/PhD and a strong record of accomplishments. Please submit CV, a brief description of research accomplishments and future research directions, along with names and addresses of 3 references to: **R. Michael Linden, PhD, Chair of Search Committee, Institute for Gene Therapy and Molecular Medicine, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029. Fax: (212) 849-2437. E-mail: michael.linden@mssm.edu. EOE.**

SIX TENURE-TRACK FACULTY POSITIONS

**Grace Cancer Drug Center, Roswell Park Cancer Institute, Buffalo, NY
Cell Cycle Targeting, Anticancer Drug Action,
Preclinical Drug Development and Mouse Models for
Chemoprevention and Therapeutics**

The Department of Pharmacology and Therapeutics at Roswell Park Cancer Institute seeks to fill six faculty positions at the level of Assistant Member. Areas of high priority include: cell cycle regulation and/or apoptosis with the goal of discovering novel therapeutic anticancer targets; use of modern *in vitro* and/or *in vivo* approaches to identify and therapeutically exploit mechanisms of anticancer drug action, selectivity or resistance; preclinical cancer drug development with emphasis on the identification of molecular markers exploitable for selective drug delivery or drug activation; use of genetically-modified mouse models in developing or evaluating prevention or treatment strategies. Investigators focusing on other basic science areas relevant to treatment or prevention of human cancers will also be considered. RPCI provides a rich multidisciplinary environment, including opportunities for interaction with scientists and clinicians, and participation in an active graduate program. Competitive salaries and start-up packages will be provided. Interested candidates should send a CV, the names and addresses of three references, and a 2-3 page summary of research interests to: **GCDC-S Faculty Search, c/o Dr. Carl Porter, Department of Pharmacology and Therapeutics, Elm and Carlton Streets, Buffalo, NY 14263. Inquiries will be received at: cheryl.melancon@roswellpark.org**

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



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Director, Office of Education

The National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS) of the National Institutes of Health (NIH) is seeking an exceptional individual to serve as Director of a newly constituted Intramural Office of Education. The development of the Office of Education signifies the commitment of the NIAMS Intramural Research Program (IRP) to training and career development.

The Director will coordinate an effort to organize, strengthen and further develop educational activities within the NIAMS IRP. The position entails interaction with trainees from the high school through post-doctoral level, in areas of basic and clinical science. The incumbent will be involved in recruitment; in the identification of laboratory positions and research projects; in ensuring that mentoring is in place and effective; and in the process of career development. Among career development activities to be coordinated through the Office of Education are programs to foster effective scientific communication; knowledge of grant and negotiation strategies; and job hunting and networking skills. Evaluation of trainees; the provision of feedback to trainees and mentors;

Candidates must have an M.D. and/or Ph.D. degree. The Director will be fully trained in medicine (preferably in Rheumatology) and/or in an area of science relevant to the mission of NIAMS, in order to effectively interact with trainees at all levels and IRP investigators and staff. Salary and resources will be commensurate with the qualifications and experience of the candidate. Time for clinical and/or scientific activity will be available, depending on the interest and training of the incumbent.

Applicants should submit curriculum vitae, bibliography, personal statement, general proposal on how the applicant intends to accomplish the above described goals and objectives of the position, and the names of three references to:



Dr. Peter E. Lipsky
c/o Scott Sigley, HRMB, NIAMS
Building 31, Room 4C-13
31 Center Drive, MSC 2350
Bethesda, MD 20892-2350

Applications must be postmarked by July 10, 2001

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Chief, Unit on the Neuroimaging of Emotion

Molecular Imaging Branch
Mood and Anxiety Disorders Research Program
Division of Intramural Research Programs
National Institute of Mental Health
Bethesda, MD, USA



The Mood and Anxiety Disorders Research Program, in the Intramural Research Program of the National Institute of Mental Health, invites applications for a tenure track investigator position to establish a research unit focused on neurobiological studies of normal and pathological emotional processing. The candidate is expected to have demonstrated ability to develop an outstanding independent research program focused on identifying the neural mechanisms underlying emotional behavior and regulation. This program is expected to emphasize neuroimaging approaches as primary research tools. The successful candidate should have a Ph.D. or M.D. degree and at least four years of postdoctoral experience. Salary is very competitive and consistent with the level of experience of the candidate. The position includes an attractive start-up package and operating budget in an exciting multidisciplinary research environment. Applicants should send a curriculum vitae, statement of research interests, and have six letters of recommendation sent within 6 weeks, or until the position is filled, to: Dr. Robert Innis, Chair, Search Committee for Neuroimaging of Emotion Unit Chief, NIMH, Bldg. 1, Rm. B3-10, 1 Center Dr., Bethesda, MD 20892.

The National Institutes of Health is an equal opportunity employer

POSITIONS OPEN



The US Department of Agriculture, Agricultural Research Service, Beltsville Human Nutrition Research Center, Nutrient Requirements and Functions Laboratory, Beltsville, Maryland, is seeking a permanent full-time **RESEARCH BIOLOGIST/RESEARCH PHYSIOLOGIST/MICROBIOLOGIST (IMMUNOLOGIST)/NUTRITIONIST, GS-12/13**. Salary is commensurate with experience (\$53,156 to \$69,099 per year plus benefits). *Must be U.S. citizen.* Responsible for planning and conducting research to integrate cellular, molecular, and immunological methods to evaluate nutrient requirements, bioavailability, and interactions related to health and robust mucosal responses to infectious agents and antigens/allergens in humans and animal models. Define biological markers of general health status related to all aspects of immune function and inflammation and the nutritional effects on optimal vaccination efficacy. Appropriate qualifying education is required. For research program information, e-mail: urban@ba.ars.usda.gov or call: **Dr. Joseph Urban; Telephone: 301-504-5528**. To address specific qualification requirements and application instructions, e-mail: bjacobs@ars.usda.gov or **Telephone: 301-504-1350**. For a copy of announcement ARS-X1E-1294 and/or application information, **Telephone: 301-504-1482** or visit website: <http://www.afm.ars.usda.gov/divisions/hrd/index.html>.

Applications must be postmarked by June 11, 2001. USDA is an Equal Opportunity Employer and Provider.

SUPERVISORY RESEARCH PLANT PATHOLOGIST (RESEARCH LEADER)

The U.S. Department of Agriculture, Agriculture Research Service (ARS), is seeking a Supervisory Research Plant Pathologist as a Research Leader for the Plant Science Research Unit in Raleigh, North Carolina, at North Carolina State University. Salary commensurate with experience; GS 14/15 (\$72,969 to \$111,581). The Research Leader will lead a multidisciplinary team of Scientists and conduct research dealing with minimizing losses to small grain crops due to fungal and other microbial diseases. Areas of research include host resistance, methods for the transfer of resistance from wild progenitors into small grain cultivars (mainly wheat but also oat and barley), epidemiological and etiological studies, development and management of host resistance, and development of improved molecular marker-based selection methods for resistance. The incumbent will also supervise a staff of Research and Support Scientists and technical and administrative staff. A Ph.D. or equivalent in plant pathology or related scientific discipline is desired. Vacancy announcement containing information on basic and specialized experience and competencies may be obtained at website: <http://www.ars.usda.gov/>, Announcement Number ARS-X1S-1231. Position closes May 21, 2001. For specific application procedures and requirements, please contact: **Susan Davis; Telephone: 919-515-2731; e-mail: susan_davis@ncsu.edu**. *Must be a U.S. citizen.* USDA-ARS is an Equal Opportunity Provider and Employer.

MICROSCOPIC IMAGING SCIENTIST. Senior-level Scientist to coordinate light-microscopy imaging facilities for cytoskeletal research and to conduct research on neuronal microtubules. Expertise is required in fluorescence and live-cell imaging and the use of computers for image storage and processing. Previous research experience is essential, preferably in cytoskeleton. Salary will be \$35,000 to \$50,000 annually depending on experience. Send curriculum vitae and references to: **Dr. Peter W. Baas, Department of Neurobiology and Anatomy, MCP Hahnemann University, 2900 Queen Lane, Philadelphia, PA 19129. Telephone: 215-991-8298; FAX: 215-843-9082.** Equal Opportunity Employer.

POSITIONS OPEN

BIOCHEMIST POSITION Candidates (ASSISTANT/ASSOCIATE PROFESSOR level) should be business motivated and must have Ph.D. degree with experience on gene mutations/gene swapping. Salary: \$30,000 to \$40,000 per year (negotiable). Please write to: **Ab Peptides, Inc., 2101 South Brentwood Boulevard, St. Louis, MO 63144. E-mail: abpeps@icon-stl.net**.

The U.S. Forest Service North Central Research Station seeks a **RESEARCH MICROBIAL ECOLOGIST** to develop a more comprehensive understanding of the below-ground microbial processes that regulate the dynamics of carbon and nutrients in forests. We are looking for a creative individual dedicated to advancing our understanding of how forest ecosystems function. The position is located in Houghton, Michigan, on the beautiful Keweenaw Peninsula. This is a full-time, permanent appointment (GS 12/13; \$51,927 to \$80,279) with flexible work schedules and full health, retirement (including 401[k]-type), and vacation benefits. The desired candidate will have a Ph.D. and research experience in the application of the principles and concepts of microbial ecology to forest ecosystem science. Adjunct faculty status and the ability to train graduate students are both possibilities. To receive the job announcement, contact **Peggy Castillo; Telephone: 651-649-5026; e-mail: psc Castillo@fs.fed.us** by June 8, 2001. The early alert describing the position in more detail can be found at website: <http://www.ncrs.fs.fed.us/4108/>. The U.S. Department of Agriculture Forest Service is an Equal Opportunity Provider and Employer.

RESEARCH ASSOCIATE, chemistry (Cambridge, Massachusetts). Performs protein purification and analysis including analytical gel electrophoresis, Western blot, and protein binding assays. Performs HPLC and gas chromatography for GLP work; executes protein purification, preparative gel electrophoresis, and preparative isoelectric focusing, expression, and purification of recombinant proteins. Performs molecular biology including mutagenesis, subcloning, DNA transcription, reverse transcription, total RNA extraction from tissue, RNA and DNA labeling, and sequencing. Minimum requirements: Master of Science or equivalent in chemistry and two years of experience in the job offered or two years of protein purification experience including experience utilizing HPLC; gas chromatography; and knowledge of *in vitro* systems, molecular biological techniques, cell culture, multiple cell types, and RNA transcription. Salary is \$54,250 per year for a five-day, 40 hour work week. Qualified applicants respond with résumé in duplicate to: **Case Number 20010644, Labor Exchange Office, 19 Staniford Street, First Floor, Boston, MA 02114.**

The U.S. Forest Service North Central Research Station seeks a **RESEARCH ECOLOGIST** to develop a more comprehensive understanding of biogeochemical cycles in forests. We are looking for a creative individual dedicated to advancing our understanding of how forest ecosystems function. The position is located in Houghton, Michigan, on the beautiful Keweenaw Peninsula. This is a full-time, permanent appointment (GS 12/13/14; \$51,927 to \$94,862) with flexible work schedules and full health, retirement (including 401[k]-type), and vacation benefits. The desired candidate will have a Ph.D. and research experience in the application of the principles and concepts of biogeochemistry to forest ecosystem science. Adjunct faculty status and the ability to train graduate students are both possibilities. To receive the job announcement, contact **Peggy Castillo; Telephone: 651-649-5026; e-mail: psc Castillo@fs.fed.us** by June 8, 2001. The early alert describing the position in more detail can be found at website: <http://www.ncrs.fs.fed.us/4108/>. The U.S. Department of Agriculture Forest Service is an Equal Opportunity Provider and Employer.

POSITIONS OPEN



DEPARTMENT OF AGRICULTURE (USDA) AGRICULTURAL RESEARCH SERVICE (ARS)

The Agricultural Research Service, Beltsville, Maryland, is seeking applications for two permanent **RESEARCH SCIENTIST** positions in the Food Technology and Safety Laboratory. Microbiologist, Announcement Number ARS-D1E-1312, and Research Food Technologist, Announcement Number ARS-D1E-1311. Grades GS-12/13. The mission of the laboratory is to conduct basic and applied research on beef, pork, lamb, poultry, and other animal products to enhance their quality and safety and to develop technology for evaluating, maintaining, and improving the safety and quality of meat and meat products. *U.S. citizenship required.* Applications must be submitted by the closing date. Both announcements close on May 14, 2001. For copy of vacancy announcement and/or forms, **Telephone: 301-504-1482** or view full announcements on website: <http://www.ars.usda.gov/afm2/divisions/hrd/hrdhomepage/empopp.htm>. ARS is an Equal Opportunity Provider and Employer.

Kendle International, Inc., a premier provider of quality clinical development services and medical marketing services on a contract basis to the pharmaceutical and biotechnology industries, is currently seeking qualified candidates for a **FELLOWSHIP OPPORTUNITY**.

Following approximately one year of professional training, development, and mentoring, successful participants will be capable of directing international clinical drug development programs. Degree requirements include M.D., Pharm. D., Ph.D., or D.P.H. Strong candidates will have experience in postdoctoral research of human diseases, familiarity with related data, and the ability to manage multiple tasks.

For immediate consideration, please submit your résumé and cover letter to: **Steve Borowski, Human Resources Department, Kendle International, Inc., 1200 Carew Tower, 441 Vine Street, Cincinnati, OH 45202. FAX: 513-562-1799; e-mail: Careerops@Kendle.com**.

POSTDOCTORAL POSITIONS

Two Postdoctoral positions are available to investigate the importance and mechanism of gonadotropin-releasing hormone receptor in tumors and molecular mechanism of pituitary tumor transforming gene in tumorigenesis. One with a Ph.D. in chemistry and experience in synthetic chemistry and another with a Ph.D. in biochemistry or molecular biology and experience in cell biology and protein-protein interaction are encouraged to apply. Interested individuals should send curriculum vitae, a statement of research interests, and names of three references to: **S. Kakar, Ph.D., Department of Medicine, 570 South Preston Street, Baxter Building, Room 204 C, University of Louisville, Louisville, KY 40202. Telephone: 502-852-0812; e-mail: sskaka01@louisville.edu**.

RESEARCH SCIENTIST

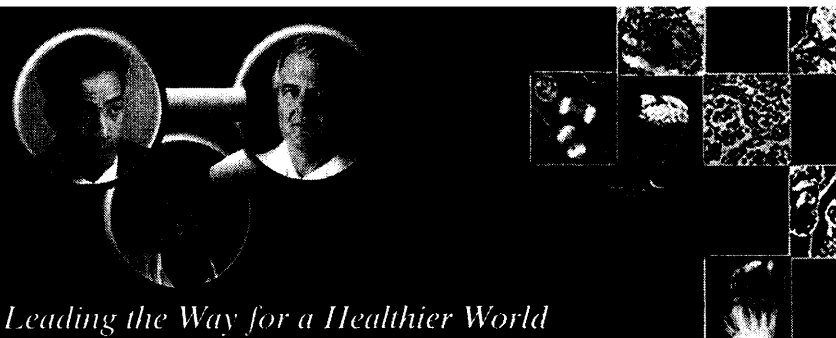
The Department of Otolaryngology at The University of Texas Medical Branch (UTMB) in Galveston, Texas, seeks a Research Scientist to conduct system studies of vestibular function and dysfunction. Qualifications: Ph.D. in neurophysiology with a three-year minimum doctoral or postdoctoral experience in recording from brainstem neurons. Send résumé to: **Dr. Adrian Perachio, Ph.D., UTMB, 301 University Boulevard, Galveston, TX 77555-1063. FAX: 409-772-5893; e-mail résumé to e-mail: aperachi@utmb.edu**. UTMB is an Equal Opportunity/Affirmative Action Employer; Minority/Female/Disabled/Veteran. UTMB hires only individuals authorized to work in the United States.

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Cell Biologist (PGPCR)

In this role, requirements include broad experience in mammalian cell-based assay development and a proven track record in generating and characterizing cell lines as well as developing/implementing functional assays. Knowledge of techniques for visually and quantitatively monitoring protein expression and trafficking is highly desirable; primary neuronal cell culture systems experience is beneficial. You should be an independent, self-motivated worker with excellent communication, computer, and data analysis skills.

Research Scientist (#P879847)

To qualify, you must possess a BS/MS in Pharmacology, Neurochemistry, Biochemistry or a related field with 2-3 years' experience in an academic or industrial environment. Candidates should also have training with in vivo models of neurochemistry and neuropharmacology and refined analytical, computer, and communication skills. A strong background in microdialysis, histology and/or modern HPLC techniques (with ECD or fluorometric detection) would be highly desirable, though training will be provided.

Postdoctoral Fellow (#P883139)

The ideal candidate will elucidate molecular and cellular mechanisms governing the regulation of glutamate transporter expression and activity. Requirements include a Ph.D. and up to 2 years' postdoctoral training, including a strong neuroscience background with an emphasis on neurotransmitter transporter biochemistry and physiology. We highly desire expertise in using recombinant expression systems and brain-derived cell preparations for in vitro studies. Familiarity with both neurochemical and fluorescence assay techniques is advantageous. You should be well-grounded in pharmacology and molecular biology and exhibit strong communication/motivational skills.

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POSITIONS OPEN

University of Maryland, School of Medicine, is seeking to fill an **ASSISTANT PROFESSOR** position in cancer-related research. The primary appointment will be in a tenure-track position in the Department of Pharmacology and Experimental Therapeutics. The successful candidate will be expected to develop his/her own independent research program utilizing state-of-the-art approaches to address questions relevant to various facets of cancer and pharmacology. Candidates are expected to participate in medical and graduate education. A generous start-up package is available. Applicants should submit curriculum vitae, selected reprints, a short research summary, and three references to:

Angela Brodie, Ph.D.

**Chair, Cancer Biology Search Committee
Professor of Pharmacology and
Experimental Therapeutics**

**University of Maryland, School of Medicine
655 West Baltimore Street, Room 4-002, BRB
Baltimore, MD 21201**

University of Maryland is an Affirmative Action/Equal Opportunity Employer and Educator.

The Department of Pediatrics, University of California, Davis, is seeking a **RESEARCHER at ASSISTANT/ASSOCIATE level** (commensurate with credentials). The successful candidate should have a Ph.D. in molecular biology/biochemistry/immunology, three to seven years of postdoctoral experience, a track record of publications, skills in supervising an established laboratory, and ability to write grant applications. The candidate will be encouraged and expected to establish independent research in three to four years. Submit curriculum vitae and letter of inquiry to: **Anthony Philipps, M.D., Chair, Department of Pediatrics, 2516 Stockton Boulevard, Sacramento, CA 95817**. Position is open until filled but no later than December 31, 2001. *The University of California is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROJECT NEUROSCIENTIST. Position available July 1, 2001, for a qualified Ph.D. or M.D. in pharmacological therapy of experimental stroke. Will perform studies using animal models of stroke to investigate new therapeutics and mechanisms of injury. Background in pharmacology and ability to perform animal surgery required. Knowledge of history, statistics, and behavioral testing is desirable. Send curriculum vitae, statement of research interests, and three references to: **VMRF (Job Number JZ-PN1), 3350 La Jolla Village Drive, Number 151A, San Diego, CA 92161**. Applications will be accepted until position is filled. *Affirmative Action/Equal Opportunity Employer.*

Position available immediately in the Barnett Institute for a **PRINCIPAL RESEARCH SCIENTIST** in a research program to develop state-of-the-art technologies to characterize and quantitate protein expression levels at ultratrace levels. Research involves chemical tagging, separations, and mass spectrometry in conjunction with miniaturization and automation. Postdoctoral experience and demonstrated capabilities in protein biochemistry preferred. Send résumé to: **Professor Barry L. Karger, Barnett Institute, 341 Mugar Building, Northeastern University, Boston, MA 02115**. E-mail: b.karger@neu.edu. *Northeastern is an Affirmative Action/Equal Opportunity/Title IX University.*

VIRAL IMMUNOLOGIST. Advanced Viral Research Corporation seeks Viral Immunologist(s) to investigate mechanism of action of peptide-nucleic acid antiviral biopharmaceuticals, including effects on immune system function. Candidates must be able to design and implement a research program to study role of immunomodulatory drugs in treatment of viral diseases both *in vitro* and *in vivo*. Registered Ph.D. or equivalent and more than two years of postdoctoral experience; expertise in immunology, basic and applied virology, and cell and molecular biology essential. Please submit curriculum vitae to: **Human Resources Department, Reference Number MGAD, AVRC, 200 Corporate Boulevard, South, Yonkers, NY 10701**. FAX: 914-376-7368.

POSITIONS OPEN

LYNX

MEGA TECHNOLOGY MASSIVE IMPACT

LYNX is a leader in the development and application of novel technologies for the discovery of gene expression patterns and genomic variations important to the pharmaceutical, biotechnology, and agricultural industries. We currently have openings for the following positions:

SCIENTISTS RESEARCH ASSOCIATES ENGINEERS

We offer an excellent compensation and benefits package. To apply, please send your résumé to: **Lynx Therapeutics, Inc., Human Resources Department, 25861 Industrial Boulevard, Hayward, CA 94545**. FAX: 510-670-9302; e-mail: careers@lynxgen.com; website: www.lynxgen.com. *Equal Opportunity Employer.*

FOUR POSITIONS: in water, health, disaster mitigation, and climate analysis. The International Research Institute for Climate Prediction (IRI) was established in 1996 to advance the development and application of climate prediction science for the benefit of societies throughout the globe (see website: <http://iri.ldeo.columbia.edu/>). Ocean-atmospheric interactions, particularly the El Niño Southern Oscillation phenomenon, result in heavy climatic impacts on many countries, especially less-developed countries in the Tropics. The IRI produces global climate prediction information on a routine basis, and it networks and collaborates widely among a global community of researchers and other stakeholders to foster the field. As part of the development of its multidisciplinary team of researchers based at its headquarters in Palisades, New York, the IRI is searching for a number of outstanding individuals to help develop an expanded applications research program. (Please visit our website for details on the four positions.) The host institution, Columbia University, has classified the appointments at the **ASSOCIATE RESEARCH SCIENTIST (ARS)** level, but the higher **RESEARCH SCIENTIST (RS)** level or other types of appointments or secondments might be considered in the case of exceptional candidates. A Ph.D. is required for ARS and RS appointments. Columbia University fringe benefits accompany the appointments, and an independent campus daycare center is available.

Candidates are requested to state which position(s) they are interested in and to provide curriculum vitae, which must include an e-mail address; along with a statement of research interests and career objectives; and the names, addresses, and telephone numbers of three references from whom comments and letters of recommendation can be obtained if required. This should be sent either by mail to: **Search Committee/Applications, International Research Institute for Climate Prediction, Attention: Ann Binder, Room 125, Monell Building, Lamont-Doherty Earth Observatory of Columbia University, P. O. Box 1000, Palisades, NY 10964** or by e-mail (in ASCII format) to: ann@iri.ldeo.columbia.edu. Screening will begin on or about April 15, 2001. *The IRI as part of Columbia University acts Affirmatively toward Equal Employment Opportunity. Women and minorities are encouraged to apply.*

EXECUTIVE DIRECTOR. Society for Conservation Biology. Provides strategic direction to international professional organization and implements board directives. Strong communication, leadership, and management skills required. Ph.D. in biological or environmental sciences and expertise in environmental policy or administration preferred. Submit curriculum vitae and names of three references to: **Reed Noss, President, Society for Conservation Biology, 7310 N.W. Acorn Ridge, Corvallis, OR 97330 U.S.A.** Closing date: June 15, 2001. See website: <http://www.conservationbiology.org>.

POSITIONS OPEN

ECOLOGIST VISITING ASSISTANT PROFESSOR

The Union College Biology Department invites applications for a one-year visiting position to begin fall 2001 to teach a course in ecology and a second upper-level course in area of specialty (such as animal behavior). A Ph.D. and commitment to undergraduate education are required. Union College is a highly selective liberal arts college. Union offers an exceptional benefits package that includes medical, dental, and vision insurance; life and disability coverage; a generous retirement plan; and tuition remission. Additional information about Union can be found at website: www.union.edu. Please send a letter of application; curriculum vitae; statements of research interests and teaching philosophy; and three letters of reference by May 25, 2001, to: **Robert Olberg, Department of Biology, Union College, 807 Union Street, Schenectady, NY 12308**.

Union College is committed to a program of Affirmative Action and Equal Employment Opportunity. Women and minorities are strongly encouraged to apply.

SCIENCE WRITER/PROPOSAL MANAGER WEIZMANN INSTITUTE

The American Committee for the Weizmann Institute of Science seeks a full-time Science Writer to write and edit fund-raising proposals and summaries of scientific research. Must be familiar with a broad range of scientific fields and have the ability to interpret complex basic science and technology for a general lay audience. Additional responsibilities include managing and tracking the distribution of donor proposals, drafting letters explaining science research, writing feature articles, and responding to information requests from the public and media. Requirements: superior writing, editing, and research skills; experience in science journalism, science education, or in a nonprofit organization promoting science. Advanced degree preferred. Excellent benefits package. FAX résumé, salary range, and one short writing sample to: **Human Resources Department, ACWIS; Telephone: 212-895-7999**.

ASSISTANT PROFESSOR COLUMBIA UNIVERSITY

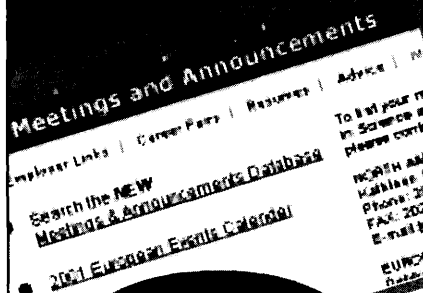
The Division of Immunogenetics of the Department of Pathology at Columbia University invites applications for two positions at the Assistant Professor level in the area of molecular/cellular immunology. Responsibilities include supervision of flow cytometry laboratory, development of protocols, and research in the area of immune regulation. Ph.D. or M.D. with postdoctoral experience required. Send curriculum vitae and names of three references to: **Dr. Nicole Suciu-Foca, Pathology/Immunogenetics Division, Columbia University, 630 West 168th Street, P&S 14-401, New York, NY 10032**. *Columbia University is an Equal Opportunity/Affirmative Action Employer. Ad Number 9050.*

Professors Pirrung and Reif seek recent Ph.D.s for research in nucleic acid computing (website: www.chem.duke.edu/~pirrung). Also, the Department of Computer Science invites applicants for a non-tenure-track **ASSISTANT RESEARCH PROFESSOR** position to begin June 2001 for research in DNA nanostructures. For both positions, molecular biology experience (including DNA synthesis and PCR) is required. Send curriculum vitae and three references to: **Professor J. Reif, Duke University, Box 90129, Durham, NC 27708** by May 28, 2001. *Duke University is an Equal Opportunity/Affirmative Action Employer.*

MATHEMATICS INSTRUCTOR: One-year, regular part-time appointment available for academic year 2001–2002 to teach general and advanced mathematics. M.S./M.A. or Ph.D. degree in mathematics required.

Please submit letter of application and résumé to: **Lynchburg College, Attention: Dean James E. Carico, School of Sciences, 1501 Lakeside Drive, Lynchburg, VA 24501**. Telephone: 804-544-8366. *Lynchburg College is an Equal Opportunity Employer.*

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MIT

BIOMICRO CENTER APPLICATION SPECIALIST

The BioMicro Center of the MIT Center for Cancer Research and Department of Biology seeks a person with a BS or equivalent in molecular biology or computer science to fill a position of Bioinformatics Application Specialist (at the grade of Research Scientist). The BioMicro center offers an exciting interdisciplinary research environment and provides excellent training opportunities in new computing and bio informatics technologies.

The Application Specialist will be responsible for user support and training for centralized bioinformatics applications maintained by the BioMicro Center. These applications include both open-source and commercial software based on a three-tier design that includes an Oracle DBMS. The application specialist will be part of a team of information technology staff members that includes a database administrator and a UNIX systems engineer, as well as several programmers from research programs in the Department. Will work directly with scientists to help them utilize bioinformatics tools in genomic, proteomic and microarray projects. As part of this work, the application specialist will be expected to develop scripts and other customized software tools as well as to reach out to the user community through presentations, demonstrations, and one-on-one meetings.

Requirements: excellent speaking and presentation skills are required, as is a solid knowledge of Perl, UNIX (Linux-Solaris) and HTML/XML. Knowledge of and experience with public genome databases is also a plus.

Interested candidates should submit a resume and cover letter referencing Job No. 01-0343 to: Elaine Smith, MIT Human Resources, PO Box 391229, Cambridge, MA 02139-0013. To apply on-line: web.mit.edu/personnel/www/resume.htm.



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See **www.packfound.org** for more detailed information.

Program Officers review grant proposals, collaborate with foundation colleagues and practitioners in the field and write program-related documents.

Qualifications include a doctorate or 7+ years of related professional experience in academia, research, government or a non-profit. Successful candidates must have excellent communication and time-management skills and a collaborative work style.

The Foundation offers a competitive salary commensurate with experience and a competitive benefits package. Please apply individually to #00-26-5500 for the Science Position or #01-06-3500 for the Conservation Position. Send a cover letter and resume or cv to:

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POSITIONS OPEN

LECTURER University of Texas-Pan American

The Department of Biology at the University of Texas-Pan American invites applications from outstanding candidates for a non-tenure-track, one-year renewable Lecturer position in biology. Candidates with expertise in biology and experience in program development are encouraged to apply. The University offers new facilities and a supportive collegial environment to foster development of academic careers. Salary will be negotiable based on background and experience.

The successful candidate will be expected to advise, counsel, and tutor premedical students; establish and maintain links with educational institutions; and display a commitment to teaching excellence. The candidate will be expected to manage the Premedical Honors College program; assist in teaching the Department's Introductory Biology, Anatomy, and Physiology; and develop teacher education opportunities for high school biology teachers. Please visit our department website: www.panam.edu/dept/biology and the University of Texas-Pan American Personnel Department website: <http://w3.panam.edu/www/personnel> for more information.

Evaluation of applications will begin on May 7, 2001, and all application material must be received by this date. Applicants with a Ph.D. are preferred but individuals with an M.S. degree in biology and experience may apply. A letter of application, curriculum vitae, a statement of teaching philosophy, a statement of your experience in program development, and three letters of recommendation (sent under separate cover) should be addressed to:

Dr. Luis Materon
Chair, Search Committee
Department of Biology
University of Texas-Pan American
1201 West University Drive
Edinburg, TX 78539-2999
E-mail: lmateron@panam.edu
Telephone: 956-316-7140
FAX: 956-381-3657
(F00/01-69)

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PROFESSOR AND HEAD, Department of Plant and Soil Sciences, Mississippi State University. The Head will lead and manage faculty and staff engaged in teaching, research, extension, and professional service activities. The Head reports to the Dean, College of Agriculture and Life Sciences; the Director, Mississippi Agricultural and Forestry Experiment Station; and the Director, Mississippi State University Extension Service. The Department has approximately 160 undergraduate majors and 75 graduate students. Applicants should have a Doctorate in agronomy, horticulture, soil science, weed science, or a closely related field and qualify for tenure at the rank of **PROFESSOR**. Demonstrated scholarship in their discipline and experience in teaching, research, and/or extension work are preferred qualifications. Applicants should provide evidence of leadership ability in program development, budgetary and personnel management, obtaining outside financial support, and working with clientele groups. Send letter of application including qualifications and administrative philosophy and how these relate to the Department Head's position, résumé, transcripts for all course work, and names/addresses (including e-mail addresses) of three to five references to:

Chairperson, Search Committee for
Department Head, Plant and Soil Sciences
Department of Entomology and
Plant Pathology
Box 9775
Mississippi State, MS 39762

Application deadline is June 30, 2001, or until a suitable candidate is identified. Nominations are encouraged. Mississippi State University is an Equal Employment Opportunity/Affirmative Action Employer.

POSITIONS OPEN



ASSISTANT PROFESSOR NUTRIENT REGULATION OF GENE EXPRESSION

Twelve-month appointment (tenure track), The Ohio State University, Columbus or Wooster campus. The Department of Animal Sciences is seeking to hire a person who will develop an innovative and high-quality research program in the area of nutrient regulation of gene expression, which is relevant to food animal biology. The person will also participate in the Ohio State University Nutrition program, provide a graduate-level course in their field of expertise, and help develop and teach an undergraduate-level course. The minimum qualifications for this position are (1) a Ph.D. emphasizing molecular aspects of nutritional sciences, (2) postdoctoral or equivalent experience using contemporary approaches in molecular and cellular biology, (3) a strong publication record and other evidence in support of potential to obtain competitive grant funding, and (4) a commitment to excellence in teaching at the graduate and undergraduate levels. A competitive salary and start-up package, including a graduate research assistantship, will be offered. Applicants should send curriculum vitae, a one- or two-page narrative describing their goals and qualifications as they could relate to food animal biology, transcripts, and the names and addresses of at least three references to: Mark Morrison, Search Committee Chair, Department of Animal Sciences, 230 Plumb Hall, The Ohio State University, Columbus, OH 43210-1094. Telephone: 614-292-6564; FAX: 614-292-7116; e-mail: morrison.234@osu.edu. The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disabilities are encouraged to apply.

SCIENTIST PHARMACOLOGIST/TOXICOLOGIST

We are currently seeking an individual to join our company as a Scientist. The individual will join an exciting team developing models for predictive analysis of *in vivo* and *in vitro* pharmaceutical drug properties. The Company's informatics projects generate large, high-quality data sets specifically for model development. This Scientist position involves the gathering and interpretation of *in vivo* pharmacokinetic and clinical data from human studies.

The successful candidate will have a Bachelor's, Master's, or Ph.D. degree, preferably in pharmacology, pharmaceutical sciences, medicinal chemistry, or pharmacy. Pharmaceutical industry or postdoctoral experience of one to four years is desired. The successful candidate will also have excellent interpersonal skills, exceptional analytical and problem-solving skills, a high degree of self-motivation, and the ability to work as a proactive team member.

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

POSTDOCTORAL POSITION (RESEARCH ASSOCIATE) in physiology: respiratory neurophysiology with special emphasis on neural control of upper-airway muscles. Experiments will be done in anesthetized rats and an *in vitro* brain stem spinal cord preparation from neonatal rats. Review of applications to begin May 15, 2001; will continue until position is filled. Candidates with the Ph.D., M.D., or equivalent should send curriculum vitae and the names of three references to: Job Number 993856, Ralph Fregosi, Ph.D., P.O. Box 245051, Department of Physiology, University of Arizona, Tucson, AZ 85724-5051. The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer; Minorities/Women/Disabled/Veterans.

POSITIONS OPEN

FACULTY POSITIONS Genome Center of Wisconsin University of Wisconsin-Madison

The University of Wisconsin-Madison seeks **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** tenure-track faculty (two) in functional genomics/proteomics or in bioinformatics. The faculty will be a member of the Genome Center of Wisconsin and hold a joint appointment in appropriate academic departments (physical, biological, computational, or engineering sciences). The Genome Center of Wisconsin has been established at UW-Madison as a center of excellence in the study of genomes as a whole, to be housed in modern facilities in a new building. We seek faculty in functional genomics/proteomics including parallel strategies for interpreting the biochemical function, 3-D structure, and/or biological role of unknown genes found in genome data of recently sequenced organisms. Ideal candidates will be innovators of new technologies wishing to address significant biological problems. The second faculty position is available in bioinformatics including the interpretation, analysis, and distribution of information on genomes.

Candidates should demonstrate the ability to conduct a vigorous research program and teach. Include curriculum vitae and a one-to-two-page statement on your research and teaching interests, up to five reprints, up to five letters of reference, and any other (brief) information you wish to provide. Electronic applications are welcome. Send applications to: Deborah Faupel, Genome Center of Wisconsin, UW Biotechnology Center, 425 Henry Mall, Madison, WI 53706. Review of applications will begin June 1, 2001, and continue until the positions are filled.

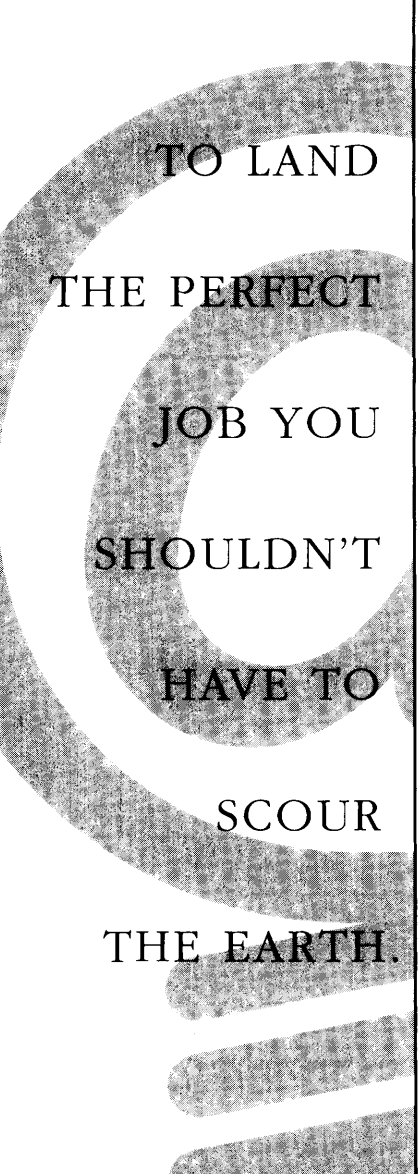
Associated faculty include Thomas Anantharaman, Frederick Blattner, Franco Cerrina, Sally Leong, Nicole Perna, David Schwartz, Jude Shavlik, Lloyd Smith, and Michael Sussman. Website: <http://www.gc.wisc.edu>. An Affirmative Action/Equal Opportunity Employer. Please note that unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

POSITIONS IN LUNG VASCULAR BIOLOGY AND GENOMIC RESEARCH Johns Hopkins University

Immediate openings available for Laboratory Technicians, **POSTDOCTORAL RESEARCHERS**, and junior faculty to work within a well-funded multidisciplinary laboratory studying diverse endothelial cell pathobiologies (including molecular mechanisms of endothelial cell contractility, barrier dysfunction; biophysical models including shear stress and mechanical stretch). We also seek persons with expertise in cDNA microarray experimentation and analysis since we are an NIH-funded center for applied genomics in cardiopulmonary disease. Positions available to U.S. citizens or permanent resident applicants only. Please send application and curriculum vitae to:

Joe G. N. Garcia, M.D., Director
Johns Hopkins University
Department of Medicine
Division of Pulmonary and Critical Care Medicine
The Johns Hopkins Asthma and
Allergy Center, 4B.77
5501 Hopkins Bayview Circle
Baltimore, MD 21224-6801
E-mail: drjgarcia@jhmi.edu

POSTDOCTORAL POSITION available immediately in ocular oncology at University of California San Francisco to perform translational research directed at improving diagnosis and treatment of retinoblastoma. Projects include molecular analysis of the RB1 gene, *in vitro* studies of tumor behavior, and *in vivo* study of therapeutics in a transgenic murine model. M.D. or Ph.D. required with experience in genetics or cell or molecular biology. Contact: Joan O'Brien, M.D., UCSF, 10 Kirkham Street, San Francisco, CA 94143-0730. E-mail: aleja@itsa.ucsf.edu. Equal Opportunity Employer/Affirmative Action/Minority/Women/Handicapped/Veteran.



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Faculty Positions in Women's Health Research University of Kentucky

The University of Kentucky announces the availability of junior-faculty career development positions in Women's Health research. Funding from the NIH-sponsored Building Interdisciplinary Careers in Women's Health (BIRCWH) Program is available to support the career development of PhD and MD researchers interested in Women's Health. Established researchers will mentor the junior faculty in one of three broad areas: Regulation of the menopause; Nutrition-related illnesses in women; and Gender issues in drug abuse. Faculty in the BIRCWH program will devote a minimum of 75% of their professional time to the Women's Health research studies and to developing an independent, federally funded research program. BIRCWH scholars will have the opportunity to interact and collaborate with established investigators in several departments and centers. Two to three years of salary support will be provided for up to six junior faculty positions, which will be established at the appropriate academic rank in a basic science or clinical department relevant to the candidate's background and interest. Applicants must provide evidence of interest and training in Women's Health and demonstrate potential for development as a successful independent researcher. Applicants must be US citizens or hold legal admission as permanent residents, possess an MD or PhD degree, and not previously served as a principal investigator on an NIH research grant relevant to Women's Health. To apply send a letter of interest that includes goals, a description of specific research interests, a description of proposed research project and a curriculum vitae to Edythe Tevelson Lach, Office for Research & Leadership Development, College of Medicine, L-007 Kentucky Clinic, Lexington, KY 40536-0284 or e-mail information to etlach@email.uky.edu. Please check our website at www.mc.uky.edu/bircwh for further information.

Applications will be reviewed on a continuous basis for selection of BIRCWH Scholars until all openings are filled.

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LABORATORY OPPORTUNITIES

IMPATH Predictive Oncology is a wholly owned subsidiary of IMPATH Inc. and provides translational genomics products and services to biotech and pharmaceutical companies world-wide. Due to continued expansion, we have the following opportunities available in our state-of-the-art cancer-focused research/clinical laboratory based in Los Angeles.

LABORATORY TECHNICIANS

-MOLECULAR- Requires expertise and technical competence in nucleic acid extraction, PCR and Southern blotting. You will be responsible for carrying out laboratory analyses in compliance with GLPs in support of ongoing research efforts and clinical trials, and in the development and implementation of new initiatives in molecular oncology. In this role, you will also participate in quality control, instrument calibration and routine laboratory maintenance. Successful candidates will have a Bachelor's degree and a record of achievement in a commercial or research laboratory.

-IMMUNOHISTOCHEMISTRY- Requires expertise and technical competence in immunostaining, paraffin and frozen tissue sectioning, and routine histology. You will be responsible for carrying out laboratory analyses in compliance with GLPs in support of ongoing research efforts and clinical trials, and in the development and implementation of new initiatives in cellular oncology. In this role, you will also participate in quality control, instrument calibration and routine laboratory maintenance. Successful candidates will have a Bachelor's degree and a record of achievement in a commercial or research laboratory.

HISTOLOGY TECHNICIANS - Los Angeles & Cypress

Candidates will be responsible for general Histology laboratory duties, including: operating and maintaining microtome, stainers, coverslipper, cassette maker, embedding center, tissue processors, microscopes, and all other miscellaneous equipment process tissues. Additionally, you will perform microtomy procedures, H&Es' automatic/manual, special stains, label slides, package slides for sending back to clients, and handling paraffin embeds tissue. You must be HT/HTL (ASCP) certified or eligible, with 1+ years of current and progressive histology/pathology experience, or applied science, and be detail-oriented with good communications skills. Knowledge of special stains, good microtomy skills, and the ability to complete a quality product in a timely manner, through the efforts of others, is vital to the department and the company.

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POSITIONS OPEN

UNIVERSITY OF ARKANSAS AT LITTLE ROCK

The College of Science and Mathematics at the University of Arkansas at Little Rock is seeking an **ASSISTANT DEAN OF THE COLLEGE**. 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 more than 11,000 students. The successful applicant will be the Director of the MSISM (Masters of Science in Integrated Science and Mathematics) program and will likely teach one-half time in his/her field of specialty and in the integrated science curriculum. Duties of the MSISM Director will be to advise and supervise the program's students, facilitate the formation of each student's graduate committee, maintain student records, and coordinate scheduling of program courses.

The Assistant Dean will also be the liaison between CSAM and the College of Education in science education matters. Preference will be given to the candidate with a strong background in mathematics or one of the physical, biological, or Earth sciences and who has developed an interest in science education and science education research. Requirements for the position include a minimum of an M.S. in a math or science discipline, teaching experience, some administrative experience, and demonstration of grantsmanship abilities. A nine-month, 10½-month, or 12-month position is possible. An application should include curriculum vitae, a statement explaining how your background makes you well suited for this position, and three letters of recommendation.

Review of applications will begin on June 15, 2001. Applications will be accepted until the position is filled. Applications should be addressed to: **Dr. Thomas J. Lynch, Associate Dean, College of Science and Mathematics, University of Arkansas at Little Rock, ETAS 125, 2801 South University Avenue, Little Rock, AR 72204.**

The University of Arkansas at Little Rock is an Equal Opportunity/Affirmative Action Employer and actively seeks the candidacy of minorities, women, and persons with disabilities. Under Arkansas law, applications are subject to disclosure. Persons hired must have proof of legal authority to work in the United States.

CHARLES H. AND MILDRED KRUSE BRIDGES ENDOWED CHAIR in Veterinary Medical Education

The Texas A&M University College of Veterinary Medicine is seeking nominations and applications for the newly endowed Charles H. and Mildred Kruse Bridges Chair in Veterinary Medical Education. This unique Chair was created to facilitate curricular and faculty development while promoting new and innovative approaches to the education of veterinarians who will be prepared for the challenges of the 21st century. The successful candidate will be expected to assume a leadership role in advancing veterinary medical education at Texas A&M University and help lead the college and university to an enhanced position of preeminence in the field of veterinary medical education. Preference for this highly prestigious position will be given to candidates who are recognized for their expertise in the scholarship of teaching and education, have experience with professional education in veterinary medicine and/or another health science profession, and can readily assume a national/international leadership role in veterinary medical education. An earned Doctorate with academic or equivalent experience and scholarly credentials appropriate for a tenured **PROFESSORSHIP** are expected. Applications will be accepted until the position is filled. Reviews of applications will begin on June 15, 2001. Applicants should send a statement of interest, curriculum vitae, and names of three references to: **Dr. Evelyn Tiffany-Castiglioni, Co-Chair of Bridges Search Committee, Department of Veterinary Anatomy and Public Health, College of Veterinary Medicine, Texas A&M University, College Station, TX 77843-4458. E-mail: ecastiglioni@cvm.tamu.edu.**

POSITIONS OPEN

The Fred and Suzanne Biesecker Center for Pediatric Liver Disease at The Children's Hospital of Philadelphia, Philadelphia, Pennsylvania, is seeking candidates for three positions at the entry level of **ASSISTANT PROFESSOR**, research track. The primary areas of interest of the Center are (1) transplantation immunology with specific interest in molecular mechanisms involved in the development of tolerance and (2) stem cell biology or plasticity relevant to liver development, regeneration, or tissue engineering. The candidates should possess an M.D. or Ph.D. degree and complete postdoctoral training in the related area of interest. They are expected to develop independent research that will lead to extramural funding.

Interested individuals should send detailed curriculum vitae, statement of research interest and goals, and the names of three references to:

Abraham Shaked, M.D., Ph.D.

Professor of Surgery

**Director, Fred and Suzanne Biesecker
Center for Pediatric Liver Disease
The Children's Hospital of Philadelphia
Department of Surgery
34th and Civic Center Boulevard
Fifth Floor Wood Building
Philadelphia, PA 19104
FAX: 215-662-2244**

The Children's Hospital of Philadelphia is an Equal Opportunity Employer and patients are accepted without regard to race, creed, color, handicap, national origin, or sex.

LAMOND CHAIR IN HUMAN GENETICS University of California, San Francisco

The Program in Human Genetics seeks a candidate for the Lamond Chair **PROFESSORSHIP** in any area related to the genetics of complex disease and therapeutics including genetic epidemiology, statistical genetics, and identification of disease susceptibility and drug response genes. The candidate is expected to have an established, well-recognized research program in one of these areas and to become a leader in the UCSF human genetics community. This search is conducted in conjunction with the Department of Biochemistry and Biophysics and other interested departments.

Applicants must have a Ph.D. or M.D. or other advanced degree and will be expected to establish a dynamic research program and to teach in graduate and professional school courses. Candidates should send curriculum vitae, three letters of reference, a brief summary of current research, and a brief description of future research plans by May 25, 2001, to:

**Human Genetics Search Committee
c/o Laura Baxter, Box 0448**

**Department of Biochemistry and Biophysics
University of California, San Francisco
513 Parnassus Avenue, S-960
San Francisco, CA 94143-0448**

UCSF is an Affirmative Action/Equal Opportunity Employer and undertakes Affirmative Action to assure Equal Employment for underutilized minorities and women, persons with disabilities, Vietnam veterans, and special disabled veterans.

TENURE-TRACK FACULTY POSITION.

The Department of Chemistry at the University of Wisconsin-Milwaukee anticipates opening a tenure-track position at the **ASSISTANT PROFESSOR** level beginning either August 2001 or January 2002. Applications are welcomed from candidates with interests at the interface of chemistry and biology. A Ph.D. is required for this, and postdoctoral experience is desirable. The successful candidate will be required to provide evidence of scholarly achievements in peer-reviewed journals and promise successful grantsmanship and a strong interest in graduate and undergraduate teaching. To be considered, curriculum vitae with a research plan, an outline of teaching philosophy, and three letters of recommendation must be mailed to: **Professor D. W. Bennett, Chair, Department of Chemistry, University of Wisconsin-Milwaukee, P.O. Box 413, Milwaukee, WI 53201. FAX: 414-229-5530; e-mail: dwbent@uwm.edu. Must be postmarked by June 1, 2001. The University of Wisconsin-Milwaukee is an Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

RESEARCH ASSISTANT PROFESSOR College of Pharmacy University of Houston

Applications are invited for a Research Assistant Professor position. The individual will be part of a research team working on projects involving renal dopamine receptor function in the kidney in models of obesity and hypertension and will be responsible for providing overall supervision to Postdoctoral Fellows, graduate students, and technicians working in the laboratory. In addition, the successful candidate will have some opportunity to develop an independent research program. The candidate should have a strong background in biochemistry, molecular pharmacology, and cell biology and three to five years of experience at the postdoctoral level. Interested individuals should send a letter of interest, curriculum vitae, and arrange to have three letters of recommendation sent to:

**Dr. Mustafa F. Lokhandwala
Dean and Professor of Pharmacology
College of Pharmacy
University of Houston
Houston, TX 77204-5511**

The University of Houston is an Affirmative Action/Equal Opportunity Employer. Minorities, women, veterans, and persons with disabilities are encouraged to apply.

MEDICAL RESEARCH SERVICE HEALTH SCIENCE SPECIALIST U.S. Department of Veterans Affairs

Medical Research Service, Department of Veterans Affairs (VA), is recruiting for the position of Health Science Specialist in the Program Management Section located at VA Headquarters, Washington, D.C. The Health Science Specialist will be programmatically responsible for portfolio management and administration of VA research related to cellular, molecular, and structural biology and genetics. Candidates must have a Ph.D. degree with a research background in a relevant area. Experience in grant writing and/or review is desirable. Position is a VA-accepted Schedule B appointment at the GS-13 level. Benefits package and limited relocation assistance available. Applicants should send recent curriculum vitae and a letter summarizing research and administrative experience to: **Deputy Director, Medical Research Service (121A), VA Headquarters, 810 Vermont Avenue N.W., Washington, DC 20420.** Applications will be accepted until June 1, 2001. For further information, contact: **Dr. Michael Cohen; Telephone: 202-408-3600; e-mail: michael.cohen@hq.med.va.gov.** *Equal Opportunity Employer. Applications will only be accepted from U.S. citizens. Reasonable accommodations will be made for applicants with disabilities.*

Dartmouth Medical School seeks a **FACULTY MEMBER** in the Department of Anatomy at a rank commensurate with experience and qualifications.

Essential qualifications include the M.D. or Ph.D. degree, a strong record of teaching histology to medical students and of pursuing ancillary related interests (such as research in basic science) and possession of excellent organizational and interpersonal skills. Candidates with an additional strong record of teaching embryology to medical students and of innovation in medical education are especially sought. Experience teaching human anatomy to medical students, practicing physicians and/or graduate medical trainees, and in teaching underrepresented minority students will be favorably regarded.

Letters of application should include curriculum vitae and an accompanying letter summarizing relevant academic experiences. Please include the names and contact information of at least three references. Letters of application and other inquiries should be sent to: **Martha D. McDaniel, M.D., Chair of the Search Committee for Anatomy, c/o Ms. Colleen King, Department of Anatomy, Dartmouth Medical School HB 7100, Remsen 230, Hanover, NH 03755-3832.** Review of applications will commence June 1, 2001. *Dartmouth is an Equal Opportunity/Affirmative Action Employer and strongly encourages applications from women and minority candidates.*

POSITIONS OPEN

FACULTY POSITIONS

Molecular and Cell Biology
University of Massachusetts Medical School

A major expansion of the Program in Molecular Medicine at the University of Massachusetts Medical School includes immediate openings for **SENIOR TENURED** and **JUNIOR TENURE-TRACK FACULTY** positions. The Program consists of Basic and Physician Scientists representing a broad range of disciplines in the biomedical sciences. The Program will expand to fully occupy its current modern building of approximately 80,000 square feet. Core facilities for tissue culture, media preparation, DNA sequencing, protein chemistry and proteomics, fluorescence-activated cell sorting, digital imaging and confocal microscopy, genomics, and transgenic/knockout mice are also available. The positions will be highly competitive with regard to start-up funds, laboratory space, and salary. The Program also seeks individuals of outstanding research potential in the broadly defined areas of developmental or structural biology, genomics, bioinformatics, and chemical biology.

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

**Dr. Roger Davis, Search Committee Chair or
Dr. Michael P. Czech, Director**
Program in Molecular Medicine
University of Massachusetts Medical School
373 Plantation Street
Worcester, MA 01605

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THE UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER

ASSISTANT PROFESSORS: The Department of Physiology invites applications from outstanding Scientists with Ph.D., M.D., or equivalent degrees for two tenure-track Assistant Professor positions. Of particular interest are candidates who will develop independent research programs in integrative biology using genetic engineering approaches to study physiological processes in tissues and whole animals. Additional areas of interest include molecular and biophysical approaches to cell physiology involving the fields of motility and the cytoskeleton in addition to transport and ion channels. However, the excellence of the successful candidates is more important than the particular area of research. These positions are part of the continuing growth of the Department at one of the country's leading academic medical centers and will be supported by significant laboratory space, competitive salaries, and exceptional start-up packages. The UT Southwestern faculty includes four Nobel Prize winners and 11 members of the National Academy of Sciences and conducts more than 1,900 research projects annually with support totaling more than \$160 million. Applicants should submit curriculum vitae, a brief statement of research plans, and arrange to have three letters of reference sent to: **James T. Stull, Ph.D., Department of Physiology, The University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75390-9040.** UT Southwestern strongly encourages applications from women, minorities, and people with disabilities. An Affirmative Action/Equal Opportunity Employer.

DIRECTOR WATER QUALITY LABORATORY

Heidelberg College seeks a new Director of the Water Quality Laboratory (WQL). The WQL's mission is to help protect the aquatic resources of Ohio, the Midwest, and the Great Lakes by assessing impacts of agricultural and other land uses. Applicants must possess a Ph.D. in the environmental sciences.

Heidelberg College is a small, private liberal arts college in northern Ohio. It has an established reputation for academic quality and outstanding teaching. Potential applicants are directed to website: www.heidelberg.edu/wql or e-mail: kkrieger@heidelberg.edu.

POSITIONS OPEN

ACADEMIC NEUROSCIENTIST: University of Hawaii School of Medicine seeks Research Scientist at **ASSOCIATE/FULL PROFESSOR** level to assist in the development of a new neuro-AIDS initiative and contribute to the development of a Center for Neuroscience Research. Full-time, 11-month tenurable position to begin approximately summer 2001 subject to position clearance and availability of funds. Duties: Pursue independent research in the field of neuro-AIDS; assist in the implementation of new clinical and basic research initiatives in neuro-AIDS; contribute to medical as well as graduate/undergraduate education in cognitive neurosciences. Minimum qualifications: (Associate Professor): Ph.D. or M.D. degree; four years at the rank of Assistant Professor or equivalent with a history of funded research in neuro-AIDS and evidence of proficiency in teaching. Board certification in neurology if M.D. (Professor): same as Assistant Professor plus four years at the rank of Associate Professor or equivalent. Inquiries/applications by July 1, 2001 (letter of interest with brief research plan, curriculum vitae, and five names of references), to: **Cecilia Shikuma, M.D., Hawaii ACTU, Young Building, Sixth Floor, 3675 Kilauea Avenue, Honolulu, HI 95816. FAX: 808-735-7047; e-mail: shikuma@hawaii.edu. Equal Employment Opportunity/Affirmative Action Institution.**

GLOBAL OPPORTUNITIES

TENURE-TRACK FACULTY POSITIONS at Ben-Gurion University. The Life Sciences Department (website: <http://www.bgu.ac.il/life>) will fill two positions over the next three years, preferably in molecular and cell/developmental biology. BGU is a dynamic research environment with an emphasis on interdisciplinary research. We offer new laboratory space with state-of-the-art equipment and start-up funding. The applicant will teach undergraduate/graduate courses in Hebrew and supervise research students.

Send applications (curriculum vitae, publications, research interests, and the names of three references) to:

Professor V. Shoshan-Barmatz, Chair
Department of Life Sciences
Ben-Gurion University
P.O.B. 653, Beer-Sheva 84105 Israel
E-mail: vardasb@bgumail.bgu.ac.il

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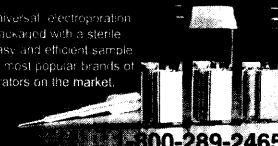
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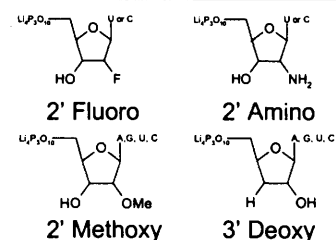
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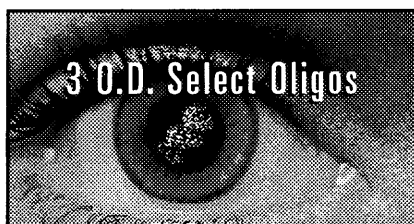
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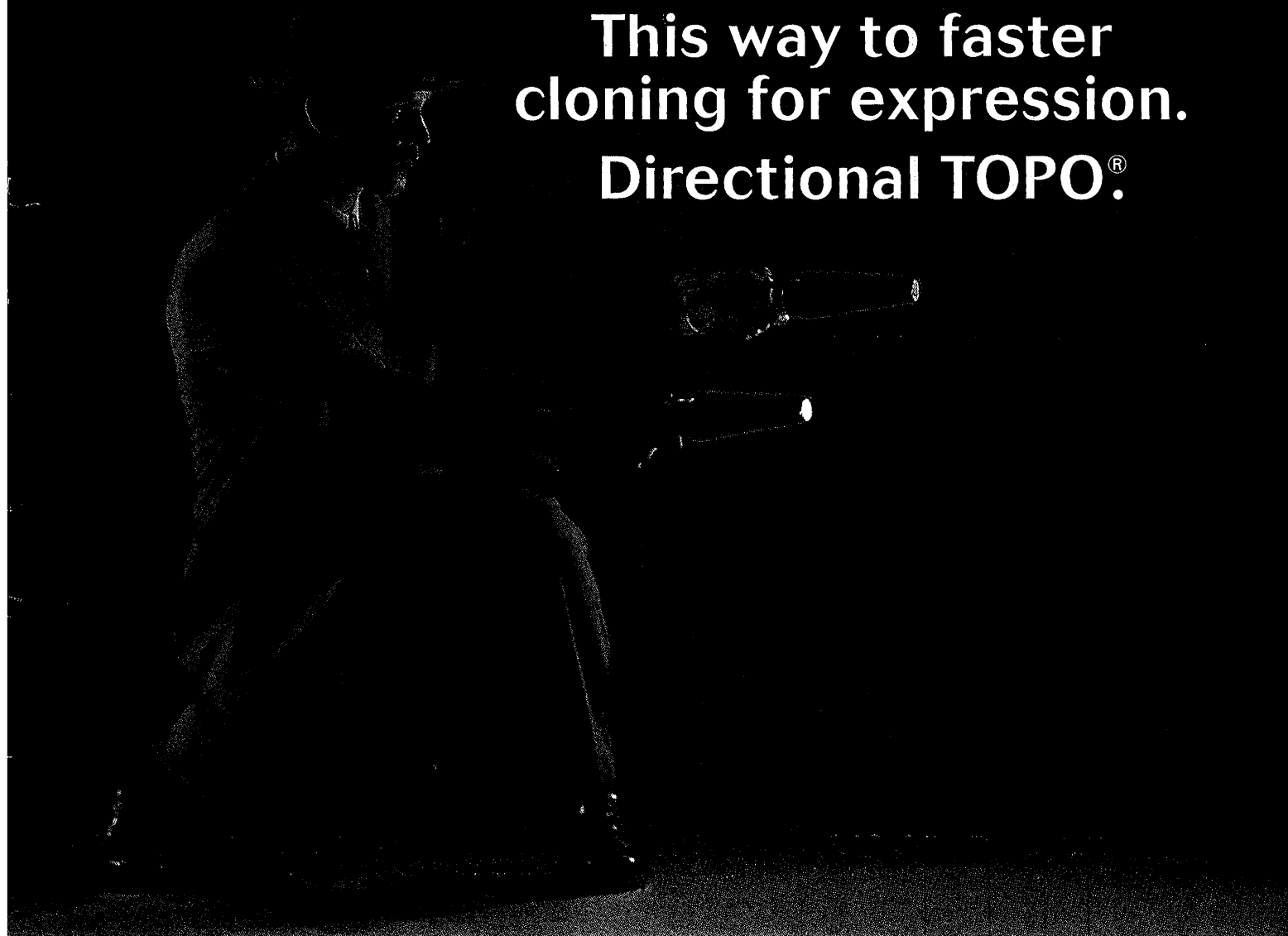
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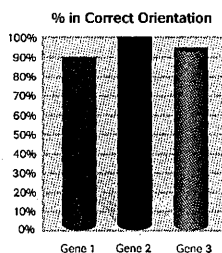
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KODAK MDS 290

Section One: Analogies

1) Film is to the KODAK MDS 290 as

- A) Typewriter is to Word Processor
- B) Magnifying Glass is to Microscope
- C) Abacus is to Calculator
- D) Pony Express is to E-Mail
- E) All of the Above



DIGITAL IMAGING 101

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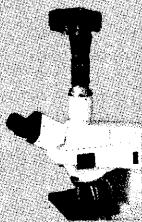
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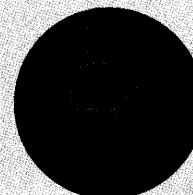
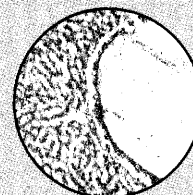
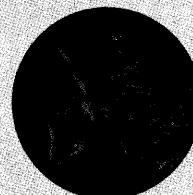
The above statement refers to comparison to film.

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Correct Answer: E) All of the Above

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