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---Latha Shankar and Satyam Priyadarshy

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Postdoctoral Opportunities: Part II

DIRECTIONS

Scientists seeking postdoctoral fellowships no longer have to stay in academic surroundings. Industrial corporations, government laboratories, and nonprofit organizations now offer new Ph.D.s opportunities for different types of postdoctoral work. BY PETER GWYNNE

If the scientist of the scientist destined for nonacademic careers undertook postdoctoral fellowships, and even fewer thought of taking fellowships outside academic departments. Today increasing numbers of companies, government laboratories, and nonprofit organizations welcome postdocs, including Ph.D.s who expect to return to academe.

Nonacademic institutions offer their postdocs several benefits. Industrial and government laboratories frequently have better equipment than academic labs. They provide experience working in multidisciplinary teams. And they give fellows opportunities to learn about careers outside academe and to audition for possible job offers. The nonacademic organizations, meanwhile, gain from the fresh thinking and techniques that postdocs can bring to them.

Here we talk to a college career adviser and representatives of two companies, one government laboratory, and one nonprofit organization. They outline the postdoctoral opportunities they have to offer and the characteristics, such as communication skills and flexibility, that they expect of applicants.



SAN FRANCISCO, California: As director of career services at the University of California, San Francisco, Bill Lindstaedt advises scientists about to receive their Ph.D.s on their options for postdoctoral work. His responsibilities and his conversations with postdocs and students preparing for postdoctoral work give him a unique take on the pros and cons of academic and nonacademic postdoctoral opportunities.

BILL LINDSTAEDT demic and nonacademic postdoctoral opportunities. Certainly industrial fellowships offer newly minted Ph.D.s plenty of

advantages. "A lot of the time the best cutting edge technology is housed in industry. As a result, postdoctoral scholars may have access to better, newer equipment than in academic laboratories," he says.

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"Another positive factor in industrial postdocs is that fellows can obtain a better,

broader picture of industrial research and its reliance on time lines, deadlines, and funding issues. In addition, postdocs in industry might be more likely to gain leadership and supervisory management experience."

On the other hand, academic postdocs often have more freedom to publish and present their research than their nonacademic peers. Tight deadlines and pressure for industrial team members to become independent contributors can mean that the traditional postdoctoral model of mentoring may not work well in some companies. "There's more of a silo nature to the work in industry," Lindstaedt says. "Postdocs in large academic institutions have daily interactions with people in different fields and opportunities for collaborations."

As it happens, relatively few of the students whom Lindstaedt advis-

A former science editor of Newsweek, Peter Gwynne writes about science and technology from his base on Cape Cod, Massachusetts, U.S.A. CONTINUED >>

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es choose to pursue nonacademic postdocs. "There's still a general belief that a scientist who moves to industry at the postdoctoral level might not be able to return to academic life," he explains. That belief is usually false. "Faculty, particularly in the life sciences, are becoming increasingly open to having their students move out into industry," he continues. "Even postdocs who plan to become professors can benefit from industrial experience if they keep the door open by actively seeking collaborations with academic labs and maintaining close links with their academic colleagues."

Industrial postdoctoral fellowships have most appeal for life scientists who plan to make their careers in industry. Indeed, says Lindstaedt, some

students close to finishing their Ph.D.s have started to create their own industrial career opportunities in areas such as developing new business.

How should students interested in nonacademic postdoctoral work find the best positions? Lindstaedt advises them not to wait for opportunities to be advertised. "Start networking with lab managers and principal investigators," he suggests. "People in industry keep files of top candidates even before they post jobs."



KENILWORTH, New Jersey: The Schering-Plough Research Institute (SPRI) is the pharmaceutical research and development arm of Schering-Plough Corporation, a research-based company engaged in the discovery, development, manufacture, and marketing of pharmaceutical products worldwide. SPRI offers one-year postdoctoral

assignments renewable for a second year. During HAL WEHRHAGEN that time fellows can undertake a wide variety of assignments in drug discovery. "Some will work on specific leads we've discovered in our laboratories," says recruiting manager Hal Wehrhagen. "Other projects are somewhat broader, covering a specific therapeutic area or stage in the research and development process."

The fellowships give SPRI the opportunity to focus additional resources on specific areas of research interest. "In our research efforts every research resource is a valued one," Wehrhagen explains. "In return, postdoctoral fellows gain experience in conducting research and have access to resources and equipment they may not find in an academic environment."

"For example," Wehrhagen continues, "in my interviews with particular candidates I've found that not many academic institutions own or have access to the latest LC-MS/MS [liquid chromatography-mass spectrometry/mass spectrometry] equipment which in our environment is necessary to advance the research we do. In addition, postdocs have the opportunity to collaborate with scientists from many different disciplines, some of whom are preeminent researchers in their field."

Thus, Ph.D.s who want experience in the area of applied research can expect to benefit from postdoctoral work in pharmaceutical firms. "Our research objective is to generate leads and develop novel compounds that will ultimately be used to treat illness and disease," says Wehrhagen. "If your focus is on the applied research side, a postdoc in a pharmaceutical company is worth pursuing."

Industrial fellows can also experience some of the realities of the phar-



maceutical business. "In my opinion, probably the biggest adjustment for scientists coming from an academic environment to a corporate setting is that, in a corporate environment, a decision to shelve or postpone a project can be made at any point in the research. There are a variety of reasons why this may happen," says Wehrhagen. "If you're not comfortable with that, industry might not be the place for you. However, this is balanced by the satisfaction you feel when your research directly contributes to the development of a lifesaving drug."

In addition to their scientific capabilities, graduate students who want to pursue industrial fellowships must demonstrate two particular abilities. "Communication skills are very important to us," says Wehrhagen. "Postdocs must accurately

convey their findings and make clear representations to decision makers in the organization. In addition, the ability to work effectively in a team environment is important since much of our research is conducted in a team based environment."



RICHLAND, Washington: "When I came out of school it wasn't necessary to do a postdoctoral fellowship if you were going to work in industry or a govemment laboratory," recounts J.W. Rogers, associate director of the Pacific Northwest National Laboratory (PNNL). "Now it's more than the norm to do a postdoc for any position, particularly in the life sciences."

PNNL provides plenty of opportunity for Ph.D.s to

J.W. ROGERS obtain training experience in a government laboratory. "We currently have about 125 postdocs out of a total staff of about 3,500," says Rogers. "They typically serve for periods of two or three years." Responsibility for the fellows lies with the lab's principal investigators. "We have PIs working in very broad areas - biology, chemistry, computer science, and other fields," Rogers continues. "We let them hire the postdocs and determine what qualifications they require."

The government lab benefits from postdocs in two related ways. "First," says Rogers, "we get to use young, fresh minds on problems of interest for our programmatic work. In addition fellowships give us the chance to look at people in action without a permanent commitment. We end up hiring about 25 percent of our postdocs for permanent positions."

Whether or not PNNL hires them, scientists have plenty to gain from doing postdoctoral work there. "We have facilities unrivaled in the world," says Rogers. "Our postdocs can use instruments such as the world's largest nuclear magnetic resonance spectrometer. They can use the \$155 million worth of equipment, including supercomputers, in our

Environmental Molecular Science Laboratory. They also have access to synchrotrons and accelerators in other government laboratories."

Rogers emphasizes that a fellowship in a government lab does not preclude scientists from returning to academe. "If I were a Ph.D. student I would look for the postdoctoral opportunity that would



CONTINUED ≻

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NATIONAL SCIENCE FOUNDATION

Research Opportunities in Japan for U. S. Graduate Students and Postdocs

There are exciting science and engineering research opportunities in Japan. You can be a part of those opportunities through:

- Japan Summer Programs for U.S. graduate students, which provide an arranged introduction to Japan and experience in a Japanese research environment
- Postdoctoral fellowships that support research stays in Japan of varying lengths up to two years.

Already know a lab in Japan but need support? See the NSF Web site at bottom of page.

Interested, but don't know where to begin? Information on approximately 1000 Japanese researchers willing to host U.S. postdoctoral researchers and/or graduate students can be seen on the NSF Tokyo Office Homepage (http://www.twics.com/~nsftokyo/home.html). Examples of Japanese host institutions are listed below. Direct inquiries about research projects to the individuals listed. Direct questions about application requirements to NSF.

ADVANCED PHOTON RESEARCH CENTER (http://wwwapr.apr.jaeri.go.jp/e/index_e.htm)

Physics and engineering of ultrashort pulse lasers, and experiment and theory of high field science with ultrashort pulse lasers (Dr. T. Arisawa: arisawa@apr.jaeri.go.jp)

JAPAN MARINE SCIENCE AND TECHNOLOGY CENTER

(http://www.jamstec.go.jp/jamstec-e/index-e.html)

Programs in deep sea research, marine ecosystems, marine technology, and global change research. (S. Tashiro of the international office: tashiros@jamstec.go.jp)

NATIONAL INSTITUTE OF ADVANCED INDUSTRIAL SCIENCE AND TECHNOLOGY (http://www.aist.go.jp/index_en.html)

Alternative fuel engine systems (Dr. S. Goto: goto.s@aist.go.jp) Mechanism and control for robotic locomotion (Dr. O. Matsumoto: matsumoto.o@aist.go.jp) Synthesis and characterization of photo-responsive metal complexes (Dr. Y. Kawanishi: yuji-kawanishi@aist.go.jp)

NATIONAL MUSEUM OF ETHNOLOGY (http://www.minpaku.ac.jp/english)

Programs to promote understanding of peoples, societies, and cultures of the world through research, collection and conservation, and exhibition of ethnographic materials (International cooperation section: inter@idc.minpaku.ac.jp)

OKAZAKI NATIONAL RESEARCH INSTITUTES (http://www.orion.ac.jp/index_e.html)

Includes the National Institute for Molecular Biology, the National Institute for Basic Biology, and the National Institute for Physiological Sciences (N. Murata: murata@nibb.ac.jp)

For additional information:

Summer Programs for Graduate Students: http://www.nsf.gov/pubs/1999/nsf99152/nsf99152.htm Postdoctoral fellowship programs: http://www.twics.com/~nsftokyo/JSPS01.htm NSF East Asia and Pacific Program: http://www.nsf.gov/sbe/int/eap/start.htm E-mail: eapinfo@nsf.gov Phone: 703-292-8704

MUSC

Postdoctoral Positions

The Hollings Gancer Center Medical University of South Carolina (MUSC) invites applications for postdoctoral positions in basic cancer research. Located in the historic, seaside city of Charleston, MUSC is the leading academic health center in South Carolina and the center of health sciences research in the state. MUSC leads all universities in South Carolina in biomedical research with over \$123 million in extramural research and sponsored programs in FY 2001. The Hollings Cancer Center seeks postdoctoral researchers from a wide range of scientific disciplines. Over \$41 million in research funding at MUSC is relevant to cancer research. The basic cancer research activities with 94 investigators coalesce into three thematic programs: Cancer Biology, Functional Genetics, and Basic and Preclinical Therapeutics.

For more information visit Website: http://danube.musc.edu/

To apply, send CV, statement of research experience and interests and names and contact information of 3 references, with cover letter, to:

Gwen Bowers Medical University of South Carolina, Department of Biochemistry and Molecular Biology, 173 Ashley Avenue, P.O. Box 250509, Charleston, <u>SC 29425</u>

or email: bowersg@musc.edu. Please clearly indicate the investigator of interest to you.

Cancer Biology (Steven Rosenzweig, Program Leader)

Steven Rosenzweig, Ph.D. Inhibition of IGF mediated tumorigenesis

Rosalie Crouch, Ph.D. GPCR structure and function

Yusuf Hannun, M.D. Lipid second messengers

John Hildebrandt, Ph.D. G-protein signaling mechanisms

Lina Obeid, M.D. Signaling to apoptosis

John Raymond, M.D. Signal transduction via reactive oxygen species

Kathryn Meier, Ph.D. Lipid mediators of cell proliferation and adhesion in cancer cells

Functional Genetics (Dennis Watson, Program Leader)

Dennis Watson, Ph.D. Regulation of cellular differentiation and transformation

Alexander Awgulewitsch, Ph.D. Role of Hox genes in development and cancer

Tien Hsu, Ph.D. Drosophila as a model for analysis of cancerrelated alterations

Demetri Spyropoulos, Ph.D. Normal and neoplastic development

Maria Trojanowska, Ph.D. Regulation of ECM expression in human fibroblasts

Cynthia Wright, Ph.D. Transcription. chromatin remodeling and cancer

Yi-Te Hsu, Ph.D. Bcl-2 family members and apoptosis

Scott Argraves, Ph.D. Extracellular matrix (ECM) as an effector of cellular behavior Runzhao Li, Ph.D. Protein-protein interactions and pleiotropic functions of Ets1

Robin Muise-Helmericks, Ph.D. Akt/Ets in angiogenesis and vasculogenesis

Basic & Pre-Clinical Therapeutics (James Norris, Program Leader)

James Norris, Ph.D. Gene therapy of prostate cancer by Fasligand administration in vitro and in vivo

Steve Tomlinson, Ph.D. Strategies to enhance complement-mediated destruction of tumor cells

David Cole, M.D. Delineation in vivo of CD8 T-Cell response toward peptide vaccination-vaccine approach to cancer therapy

Daohong Zhou, Ph.D. Immunology and cancer therapy, stress-induced immune alteration

Judith Belt, Ph.D. Role of nucleoside transport in cancer chemotherapy

Sebastiano Gattoni-Celli, Ph.D. Semi-allogeneic cancer vaccines

Julio Barredo, Ph.D. Phenotypic regulation of the FPGS gene

Carlo Catapano, M.D., Ph.D. Oligonucleotide-based gene targeting and experimental therapeutics

David Perry, Ph.D. Regulation of de novo ceramide generation in response to chemotherapy

Daniel Fernandes, Ph.D. Molecular mechanisms of drug-induced gene amplification

Robert Boackle, Ph.D. The role of serum IgA1 in the regulation of the classical complement pathway

The MUSC Hollings Cancer Center is an Equal Opportunity Employer.

give me the best chance of broadening my scientific credentials in the shortest period of time," he says. "I think that we measure up to the very best academic postdocs, short of those with a Nobel laureate PI. This lab provides a perfect opportunity for students who want to go into academic life after their postdoctoral work. And we pay better than academic postdoctoral fellowships."

BEVERLY, Massachusetts: Postdoctoral fellows at New England Biolabs (NEB) can expect training similar to that in academic departments. "We don't have product development projects for them," says Larry McReynolds, the company's director of eukaryotic research. "Their projects always have a connection to applications. But postdocs do research projects, not production assignments."

The company offers broadly based projects in more than 15 research groups. "Since we're world famous for restriction endonucleases there's a lot of work on understanding how restriction enzymes recognize DNA. Our bioinformatics group headed by Nobel laureate Rich Roberts uses



sequence analysis to discover new restriction enzymes and to understand their evolution," McReynolds says. "We also have a molecular parasitology group that uses molecular biology to study parasitic diseases common to developing countries."

NEB's postdocs, part of a fraternity of about 150 fellows who have trained at the company over the past two decades, typically spend two to three years

LARRY MCREYNOLDS on their projects. Their assignments involve more than lab work. "We encourage them to interact with their scientific peers," says McReynolds. "They are given funds to go to two meetings a year. And they are actively involved in research publications."

Industrial postdocs at NEB and elsewhere have three advantages over academic fellows. "They don't have the pressure of making grant applications," McReynolds explains. "They see that many projects have potential applications — that over the long term the understanding they create will help in disease diagnosis or possibly making better products. They also have very good resources and support — for such tasks as DNA sequencing, oligonucleotide synthesis, and preparation of media."

NEB gains obvious benefits from its postdocs. "One of the biggest is the invigoration of different ideas, methodologies, and people," says McReynolds. "Things can get stagnant if you don't have a mix of people. Postdocs often bring in new approaches, new ideas, and techniques developed by their faculty advisers." Fellows also represent a source of new employees. "A good percentage end up in different positions in our research groups," he adds. Hires aren't restricted to the laboratory. Peter Nathan, NEB's director of marketing, first joined the company as a postdoctoral fellow.

What qualities does NEB expect would-be postdoctoral fellows to possess? "Interest and enthusiasm," says McReynolds. "They should also have curiosity about industry and how it works. And we want them to have techniques complementary to ours."



WASHINGTON, D.C.: Science and technology policy fellowships administered by the American Association for the Advancement of Science give Ph.D. scientists the opportunity to learn about and participate in political decision making at the federal level. Fellows, who must be United States citizens, spend a year or two in the nation's capital working in congressional offices or federal agencies. "The idea is to expose them to the policy-making process," says Claudia Sturges, director of the science and technology policy fellowship program.

Congressional fellows work as special legislative assistants to senators or representatives or on committee staffs. "They can interpret a lot of scientific data for congresspeople who don't fully understand the language of science," says Joe

Kovacs, the program's marketing manager. "Their judgment is taken seriously." Fellows placed at the Agency for International Development, the

> National Science Foundation, the National Institutes of Health, the Department of Defense, the Department of Justice, and other agencies provide technical advice and help on policy issues relevant to their departments.

The program isn't a traditional postdoctoral assignment. Most science Ph.D.s at any stage of their careers can apply. Fellows and potential employers

CLAUDIA STURGES have high regard for the program. "The experience adds to fellows' skill sets and takes them outside the world of research in a way that can sometimes provide very lofty experiences," says Kovacs. "It's considered a very prestigious opportunity," adds Sturges. "About a third of our fellows go back to academe or industry where they came from, but two-thirds use the program as a stepping stone to another career path or choose to stay in the policy arena." As an illustration of the program's heft, alumni filled three of four associate director positions at the Clinton Administration's Office of Science and Technology Policy in 1999.

The unique nature of the fellowships demands Ph.D.s with broad outlooks. "We look for candidates who are willing and able to work



with nonscientists," says Kovacs. "The policy-making field involves a lot of different personalities, including both experts and nonexperts." Flexibility is another must. "Fellows must be able to go with the flow," adds Sturges. "Whether they work on Capitol Hill or in an agency, they must be able to deal with ambiguity."

Last year about 500 scientists applied for rough-

JOE KOVACS IV 60 fellowships. The interview process is designed to identify scientists with both interest in policy issues and the ability to communicate. One useful, although not necessary, indication: participation in university-level policy activities or a local grass roots organization. However, Kovacs says, "We encourage anyone with the background and interest in policy making to apply."

This is the second of two articles this year on postdoctoral opportunities. The first, focusing on the subject matter for postdoctoral fellowships, appeared in the 27 April issue of Science, starting on page 756.

Genentech's people share some pretty Uncommon traits. Initiative, creativity, risk-taking – the stuff from which breakthrough medicines are created. Expect the extraordinary. Share your traits with us.

POSTDOCTORAL OPPORTUNITIES

As one of the nation's most prolific scientific organizations, the Genentech Postdoctoral Program provides a vibrant and intense environment for advanced scientific training. Bringing together more that 50 researchers publishing at a rate of 250 papers a year, the program offers an exceptional range of postdoctoral opportunities. As a program member, you will have the chance to conduct basic research in areas of our scientific interest, publish in scientific journals, and present work at scientific meetings. With close to 3,000 patents and another 2,000 pending, Genentech provides a proven pathway for your career and the means to reach the true beneficiaries of your work.

Immunology

You will investigate T and B cell signaling mechanisms using proteomic and functional genomic approaches. Our goal is to understand the mechanics of lymphocyte activation and how alterations within these signaling networks can contribute to disease states. Requires a PhD or equivalent with a strong publication record in molecular biology, immunology, protein chemistry, biochemistry and/or genetics. Job Code: 3922-SCI

To apply for this position, send your resume via email to chan.andy@gene.com.

Molecular Oncology

A postdoctoral position is available to study novel cytokines and cytokine receptors of therapeutic interest in the area of immunology and oncology. You will characterize their signaling pathways and analyze their function *in vivo* using gene knockout mouse models (see Nature 407: 916-20, 2000; Nat Cell Biol. 2:310-2, 2000; Nature 391:90-92, 1998; Nature 384: 129-134, 1996; Science 265: 1445-7, 1994; Nature 369:533-8, 1994). Requires a background in molecular/cell biology and a strong publication record. Job Code: 3527-SCI

To apply for this position, send your resume via email to desauvage.fred@gene.com.

Product Purity, Process Sciences

Working on a project involving various aspects of optimizing recombinant protein expression, including genetic engineering of E. coli host strains and evaluating recombinant protein expression in fermentors, you will study heterologous gene expression in bacteria. You will join a proteomics research group and focus on determining the roles of host proteins in maximizing expression of functional recombinant protein. Requires a PhD in Microbiology, Molecular Biology, Biochemistry or related field and experience in E. coli genetics and physiology, 2D gel electrophoresis, or protein mass spectometry. Job Code: 3947-SCI

To apply for this position, send your resume via e-mail to kmc@gene.com.

Protein Chemistry

Studying the mechanisms of protein folding of molecules of therapeutic interest, this project focuses on folding recombinant proteins produced in bacteria and will use a variety of spectroscopic and physical methods to determine the secondary structure and to follow folding dynamics. Efforts to determine the biological function of these novel proteins will be part of the project. Requires a PhD in Biochemistry, Molecular Biology, Chemistry or related field and experience with protein purification, protein mass spectrometry or spectroscopic techniques. Job Code: 3741-SCI

To apply for this position, send your resume via email to vandlen.richard@gene.com.

Protein Engineering

A position is available to evaluate determinants of protein stability, peptide folding, or protein-peptide interaction using a combination of design, diversity methods (phage display), and biophysical techniques. Projects may also include investigation of small molecule-protein interactions. For recent work, see J. Am. Chem. Soc. 123: 625, 2001; J. Am. Chem. Soc. 122: 12600, 2000; PNAS. USA 98: 5578, 2001. Requires a PhD in Chemistry or Biochemistry and research experience in protein structure-function studies, enzymology, bioorganic chemistry, molecular evolution or biophysics. Job Code: 3559-SCI

To apply for this position, send your resume via e-mail to cochran.andrea@gene.com.

Molecular Oncology

Over the next 6 months, we will have 2 positions available to study angiogenesis using a series of molecular, pharmacological and genetic tools. Primary focus areas will be the regulation of tumor angiogenesis by VEGF dependent and independent pathways, as well as the mechanisms of signal transduction of the VEGF receptors. Additionally, we are studying some exciting novel angiogenic regulators with greater selectivity than VEGF. Requires a PhD/MD and a strong background in molecular/cell biology, with an interest in tumor biology (see Nature 380: 439-442, 1996; Nature Med. 5: 623-628, 1999; Nature Med. 5: 1359-64, 1999; EMBO J. 19: 4064-4073, 2000). Job Code: 3570-SCI and 3569-SCI

To apply for these positions, send your resume via email to ferrrara.napoleone@gene.com.

Protein Engineering

A postdoctoral position is available in protein crystallography. Recent work in the group has focused on receptor-ligand complexes (see NSB 7: 440, 2000; Structure 7: R251, 1999) and has included structural characterization of the VEGF system, neurotrophin receptors and complexes, and the apoptosisinducing ligand Apo2/LTRAIL. We are also working on intracellular signaling pathways. A thorough understanding of protein crystallographic background and experience with modern crystallographic structure determination techniques and software are required, as is experience with MAD and/or MIR phasing. Protein purification and molecular biology experience is advantageous. Job Code: 3676-SCI

To apply for this position, send your resume via email to devos.bart@gene.com.

Requirements

These postdoctoral opportunities are available for candidates with a PhD or MD and a strong background in the applicable field; some experience or coursework in the field is preferred. You must have excellent communication, interpersonal and organizational skills.

Please send your resume, indicating the appropriate Job Code, to the referrenced email address and cc to genentechjobpost@webhirerpc.com. EOE.





POSITIONS OPEN



POSTDOCTORAL POSITIONS Neurobiology University of Michigan's Mental Health **Research** Institute

H. Akil and S. Watson: molecular, genomic, neuroanatomical, and behavioral studies of emotional behavior.

M. Burmeister: genetics of alcoholism, psychiatric illness, and behavior. D. Goldman: development of the neuromus-

cular junction, activity-dependent gene expression, CNS development, and regeneration

J. Meador-Woodruff: human neurochemical anatomy and molecular abnormalities in schizophrenia.

A. Seasholtz: integrative genomic studies on stress systems and depression.

D. Turner: neurogenesis, vertebrate CNS development

Tetsufumi Ueda: presynaptic regulation of

glutamate transmission. **M. Uhler:** protein phosphorylation, function-

al genomics, and memory. For more information on specific Investigators, go to website: http://www.med.umich. edu/mhri/researchfaculty.

Applicants should contact Investigators directly using the above website address or send curriculum vitae, names of references, and re-search interests to: Postdoctoral Search, Mental Health Research Institute, 205 Zina Pitcher Place, Ann Arbor, MI 48109.

Unique POSTDOCTORAL POSITIONS are available at the University of New Mexico School of Medicine for advanced training in both research and teaching to prepare Ph.D. or M.D. Scientists for tenure-track academic positions. Areas of scientific interest include (1) the cellular and molecular activities of members of the LDL receptor gene family in lipoprotein metabolism, Alzheimer's disease, and cancer; (2) signal transduction and the control of gene expression by the endoplasmic reticulum stress response pathways in cancer; and (3) telomere shortening and telomerase expression in cancer. Candidates are expected to have a strong background in cell and molecular biology and biochemistry. Salaries (\$32,000 to \$36,000) are commensurate with experience and include an excellent benefits package. Besides its stateof the art research facilities and national reputation for teaching excellence, the School of Medicine is just minutes from the Sandia Mountains and within easy driving distance of historic Sante Fe, picturesque Taos, and the Sangre de Cristo range of the Rocky Mountains. Send curriculum vitae, statement of research/teaching interests, and three references to: Kristin Gates, University of New Mexico, School of Medicine, Department of Biochemistry and Molecular Biology BMSB-249, 915 Camino de Salud N.E., Albuquerque, NM 87131. E-mail: kgates@salud.unm.edu. UNM is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS are available to investigate the molecular biology and genetics of brain tumors including the development of preclinical mouse models and studies aimed at determining the mechanism of action of relevant brain tumor suppressor genes. Qualifications include M.D. or Ph.D. in genetics, molecular biology, or cell biology. Please send curriculum vitae and two reference letters to: David H. Gutmann, M.D./Ph.D., Department of Neurology, Washington University, Box 8111, 660 South Euclid Avenue, St. Louis, MO 63110. E-mail: gutmannd@neuro.wustl.edu

POSITIONS OPEN

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 from now through July 1, 2002. All applicants must be United States citizens or permanent residents (with INS documentation). 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. Research facilities and professional environment are excellent, and the parks and recreational facilities of the beautiful Rocky Mountains are easily accessible. 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 B175, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262. UCHSC is committed to Equal Opportunity and Affirmative Action. Researchers from groups underrepresented in the biomedical sciences are encouraged to apply.

POSTDOCTORAL FELLOWS Pathology and Laboratory Medicine Emory University Atlanta, Georgia

Postdoctoral positions are available at Emory University for studies focusing on epithelial cell biology and the pathophysiology of epithelial inflammation. Current projects include (1) identification and characterization of key protein-protein interactions important in the regulation of leukocyte transepithelial migration and/or epithelial tight junction function, (2) elucidation of complex signaling events between leukocytes and epithelial cells that regulate cell migration and mucosal permeability, (3) study of molecular events in epithelial cell migration and wound repair, and (4) pathogen interactions with epithelial cells. A Doctoral degree, excellent oral and written English communication skills, and experience in molecular biology/biochemistry are required. Successful applicants will join our epithelial pathobiology group comprised of eight Principal Investigators with common interests; the group occupies 12,500 square feet of new, fully equipped, and interconnected research bace. View our website: http://www.emory.edu. PATHOLOGY/ for additional information.

Interested individuals should send résumé to: Dr. Charles Parkos or Dr. Asma Nusrat, Emory University, Department of Pathology, WMRB Room 2309, Atlanta, GA 30322. E-mail: cparkos@ emory.edu or anusrat@emory.edu.

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Up to six POSTDOCTORAL POSITIONS in aquatic chemical ecology and signaling to work with faculty and graduate students in a collaborative, interdisciplinary, and well-funded research effort combining expertise in chemistry, ecology, fluid dynamics, and sensory biology and physiology. We are especially interested in candidates willing to bridge disciplinary borders. For details, see website: http://www. biology.gatech.edu/postdoc_openings.html. Send a résumé, up to three reprints, a statement of research interests, and have three letters of reference sent to: Aquatic Postdoctoral Search, School of Biology, Georgia Institute of Technology, Atlanta, GA 30332-0230. Applications will be considered beginning October 15, 2001. Georgia Institute of Technology is a unit of the University System of Georgia and an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN



POSTDOCTORAL RESEARCH/SCIENTIST POSITIONS IN STEM CELL RESEARCH

The University of Wisconsin-Madison's Waisman Center has constructed a \$25 million building to accommodate an expansion of its research programs in innovative gene and cell-based therapies for brain disorders and diseases including neurodegenerative diseases. The Center has developed a new Stem Cell Research Program (website: http://www.waisman. wisc.edu/research/labsfr.html) that has four Postdoctoral or Scientist positions available immediately. Our new laboratories focus on the regulation of neural differentiation from primate (human and nonhuman) embryonic stem cells (Dr. Su-Chun Zhang) and neural stem cells (Dr. Clive Svendsen) and ther apeutic potential of stem cells in neurological disorders such as Parkinson's, motor neuron diseases, and myelin disorders. Applicants should have expertise in these areas and hold a Ph.D. in the biological sciences.

Please send curriculum vitae; a statement of research interests; and names of three references by October 1, 2001, to: Lynda Wright, University of Wisconsin, Waisman Center Room T603, 1500 Highland Avenue, Madison, WI 53705. E-mail: lswright@facstaff.wisc.edu

UW-Madison is an Equal Opportunity/Affirmative Action Employer. Note: Unless confidentiality is requested in writing, information regarding the names of applicants must be released upon request. Finalists cannot be guaranteed confidentiality.

POSTDOCTORAL POSITIONS (Ph.D. and M.D.) are available to study the effects of alcohol on host immunity and disease pathogenesis as part of an NIAAA-funded research training grant. Trainees accepted into the program will have the opportunity to conduct mentored research with up to 20 NIH-funded Investigators who are part of the Alcohol Research Center at Louisiana State University Health Sciences Center in New Orleans. Ongoing research projects include alcohol effects on innate and adaptive immunity, host defense against infection, progression of HIV/SIV infection, free radical production and/or P450 function in hepatic tissue, and learning/memory acquisition during SIV disease. In addition to basic research, a comprehensive curriculum is in place to educate trainees in alcohol research topics, statistical analysis, grant writing, and written and oral communication skills. Clinical training is available for selected M.D. trainees. We are looking for candidates who show exceptional promise for a career in basic research and are willing to commit two to three years for in-depth training. Interested applicants should send curriculum vitae to: Judd Shellito, M.D., Biomedical Alcohol Research Training Program, LSU Health Sciences Center, 1901 Perdido, Room 3205, New Orleans, LA 70112. E-mail: webmaster@alcoholresearch.lsuhsc.edu. Au Equal Opportunity/Affirmative Action Employer. Candidates must be U.S. citizens or permanent residents.

POSTDOCTORAL POSITION MOLECULAR MYCOLOGY

A Postdoctoral position is available immediately to pursue one of two NIH-funded projects: (1) signaling pathways that contribute to antifungal drug resistance or (2) genetic regulation of multidrug resistance transporters. The focus is on Candida albicans, but Saccharomyces cerevisiae is used extensively as a genetic model. Candidates should possess a recent Ph.D. with experience in molecular microbiology and genetics. Please send curriculum vitae, relevant reprints and meeting abstracts, and contact information for two references to: Dr. Thomas Edlind, Department of Microbiology and Immunology, MCP Hahnemann School of Medicine, 2900 Queen Lane, Philadelphia, PA 19129. E-mail: edlind@drexel.edu. Equal Opportunity Employer.





POSTDOCTORAL FELLOWSHIP OPPORTUNITIES

St. Jude Children's Research Hospital, a premier research center for biomedical research, offers postdoctoral fellowship opportunities available in the basic and clinical sciences. Recent M.D., Ph.D., D.V.M., or Pharm D. fellows are eligible to train with leading scientists in several basic biomedical research laboratories, including biochemistry, biostatistics, developmental neurobiology, experimental hematology, genetics, immunology, molecular therapeutics, molecular pharmacology, structural biology, tumor cell biology, and virology and molecular biology. Additional opportunities are also available in the clinical sciences, including infectious diseases, hematology/oncology, pharmaceutical sciences, pathology and laboratory medicine, radiation oncology, surgery, and diagnostic imaging. An interdisciplinary effort in cell and gene therapy is ongoing. SJCRH currently has 200 postdoctoral fellows funded from peer-reviewed grants, outside fellowships and institutional sources. Stipends are highly competitive.

www.stjude.org

Interested candidates are encouraged to visit our website for more information on St. Jude Children's Research Hospital. For a brochure, please contact the office below.

> Office of Academic Programs St. Jude Children's Research Hospital Reference Code: SCI97 332 North Lauderdale Street, Memphis, TN 38105-2794 Tel: (901) 495-2750 • Fax: (901) 495-4651

AA/EOE

POSITIONS OPEN



NIH-funded POSTDOCTORAL POSI-TION in neuroendocrinology/neuroscience available at The Salk Institute to study the response of the rodent hypothalamic-pituitary axis to various homeostatic challenges. Experiments will involve in situ hybridization /immunocytochemistry and related molecular biology techniques, microinfusion in or lesion of specific brain areas, adenoviral gene transfer, and blood/CSF sampling. Candidates should have a recent Ph.D. and a strong background in rodent surgery, neuroanatomy, and basic molecular biology techniques. Please send curriculum vitae and three letters of recommendation to: Dr. Catherine Rivier; e-mail: crivier@salk.edu. The Salk Institute is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS Emory University School of Medicine

Several Research Postdoctoral positions are available immediately to study the molecular mechanisms regulating cell proliferation, differentiation, and tumorigenesis. Projects will focus on the functions of several newly identified Krüppel-like factors (KLFs) in the above biological processes (Dang et al., Int. J. Biol. Cell Biol. 32:1103, 2000; Sun et al., J. Biol. Chem. 276:6897, 2001; Chen et al., J. Biol. Chem. in press 2001). Candidates should have a Ph.D. or M.D. degree with experience in molecular biology and preferably the following techniques: Northern and Western blot analysis, in situ hybridization, immunohistochemistry, and DNA microarray analysis. Send curriculum vitae, three letters of reference, and a one-page summary of research background and interests to: Vincent W. Yang, M.D., Ph.D., Director, Division of Digestive Diseases, Department of Medicine, 2101 Woodruff Memorial Building, Emory University School of Medicine, Atlanta, GA 30322. E-mail: vyang@emory.edu. Equal Opportunity/Affirmative Action Employer.

ORGANIC CHEMIST

The University of Minnesota Cancer Center, a National Cancer Institute-designated comprehensive cancer center, seeks a **POSTDOCTORAL ASSO-CIATE** to investigate the mutagenic and carcinogenic properties of aldehyde-DNA adducts and crosslinks. This is an outstanding opportunity for an individual with a Ph.D. in organic chemistry or a related field and experience in the synthesis and chemistry of adducted oligonucleotides. Join a laboratory with a broad range of projects in mechanisms of carcinogenesis and cancer prevention and contribute to our ongoing research. Qualified applicants should submit curriculum vitae and the names and addresses of three references to:

Stephen Hecht, Ph.D. Attention: Human Resources University of Minnesota Cancer Center Mayo Mail Code 806, 420 Delaware Avenue S.E. Minneapolis, MN 55455

The University of Minnesota is an Equal Opportunity Educator and Employer.

POSTDOCTORAL POSITION in prostate cancer research to investigate signal transduction and tumor suppressor pathways. A background in molecular and cellular biology preferred. Send curriculum vitae and names of references to: Dr. Young E. Whang, Lineberger Comprehensive Cancer Center, CB Number 7295, University of North Carolina, Chapel Hill, NC 27599-7295. FAX: 919-966-8212; e-mail: ywhang@med.unc.edu.

POSITIONS OPEN

Chemistry, forensic chemistry, analytical chemistry, and toxicology POSTDOCTORAL POSITIONS are immediately available at the FBI Forensic Science Research Laboratory in Quantico, Virginia. Strong background in analytical chemistry with extensive experience in either mass spectrometry or chromatographic separations. Research projects involve method development for the trace analysis of drugs/metabolites, explosives, and organic compounds of fo-rensic interest. Analytical techniques employed include HPLC, CE, GC, GC/MS, LC/MS, SPE, and liquid/liquid extraction. Current types of projects include method development for quaternary ammonium drugs in biologicals via CE and LC/MS, poisonous anions in biologicals by CE, and a survey of explosives in the environment. Future available projects will be alternative methods for explosives by LC/MS or GC/MS, the detection of definitive drug metabolites in hair by LC/MS, and the CE analysis of fiber dyes. Candidates should possess a recent (less than three years) Ph.D. in chemistry, forensic chemistry, analytical chemistry or toxicology, or a related discipline. Annual stipend: \$40,000 to \$48,000. U.S. citiens only. Send curriculum vitae by September 30, 2001, to: Research Participation Program, Attention: Norma Patterson, Oak Ridge Institute for Science and Education, P.O. Box 117, Oak Ridge, TN 37831-0117. E-mail: pattersn@orau.gov; Telephone: 865-241-2877; FAX: 865-241-5219.

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

POSTDOCTORAL POSITIONS for traning in biophysics, biochemistry, physiology, and cellular, de velopmental, 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. 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 call Kathleen Reinecke, Administrator; Telephone: 410-706-8417. The University of Maryland is an Equal Opportunity Educator and Employer. NIH/NLAMSfunded positions available for U.S. citizens and permanent residents only.

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 128:2373, 2001). 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, statement of research interest, 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 available in an NSF-funded project to study RNA-protein interactions in bacterial RNase P, an RNP complex with a catalytic RNA subunit. Background in kinetics (stopped-flow measurements, data analysis, etc.); recombinant DNA techniques; and protein purification is preferable. Please send résumé and three letters of recommendation to: Venkat Gopalan, Department of Biochemistry, The Ohio State University, Columbus, OH 43210 U.S.A. E-mail: gopalan.5@ osu.edu. POSITIONS OPEN



Emory University School of Medicine Atlanta, Georgia

Outstanding postdoctoral research opportunities are available with individual faculty and training programs in a wide variety of biomedical disciplines. Emory is in the top 20 medical schools nationally for federal research funding. With adjacent CDC and Yerkes, it provides a rich research environment in a lively residential area with affordable housing and the amenities of a major metropolitan center.

Emory provides advanced postdoctoral teaching experience through the NIH Post-doctoral Research and Education Program (PREP), one of four funded nationally, and through the NSF Center for Behavioral Neuroscience (CBN).

Full employee benefits including university retirement contribution and competitive salaries are available. The Office of Postdoctoral Education provides postdoctoral services and career workshops.

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

OUTSTANDING OPPORTUNITIES FOR GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS Vascular Biology The University of Virginia

The University of Virginia offers a multidisciplinary program in vascular biology emphasizing physiology, pharmacology, biophysics, and cell biology of the vessel wall. Twenty-four Investigators are participants in a training program with a long history of successful mentoring of both graduate students and Postdoc toral Fellows. Our particular strengths are in the areas of biophysics, cell signaling, and microcirculation. Laboratory investigations are under way in cell-cell communication in microvessels, cardiac, smooth muscle and endothelial cell electrophysiology, smooth muscle cell signal transduction, and leukocyte-endothelial cell interactions. Interested and competitive applicants should apply to: Dr. Brian Duling, Department of Molecular Physiology and Biological Physics, Box 449, Health Sciences Cen-University of Virginia, Charlottesville, VA 22908. These positions are restricted to permanent residents or citizens of the United States. The University of Virginia is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available in molecular immunotoxicology. The successful candidate will have a strong background in molecular biology and cell culture. He or she will study the effects of heavy metals in the laboratory of **Dr. Rudolfs K. Zalups** and the role of metallothionein as a signaling protein in the activation of human monocytes. Send curriculum vitae to:

> Mercer University School of Medicine Division of Basic Medical Sciences Box 142 1550 College Street Macon, GA 31207

Mercer University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS



DNAX, a long-standing biotechnology company

located within the San Francisco Bay Area Biotechnology sector and adjacent to Stanford University, conducts pioneering basic and translational research leading to drug development in the areas of Immunology and Oncology. DNAX offers an unique research environment, taking advantage of advanced technology and bioinformatics platforms including microarray and proteomic technologies and state-of-the-art facilities.

Postdoctoral Fellowships are an integral component of the DNAX research program. DNAX Fellows come from different parts of the world to work in our rigorous research environment. Fellows are encouraged to publish and to participate in scientific meetings. The program provides full financial support and generous benefits, and creates future career opportunities in both academics and biotechnology. **The following positions are currently available:**

PROTEIN AND GENOMIC TECHNOLOGY

J. Fernando Bazan, Ph.D. The laboratory is focussed on projects in functional genomics, dissecting protein families that are tied to critical signaling pathways involved in immune regulation. Since this work has a strong foundation in computational and structural analyses of genes and proteins, a background in immunology, biochemistry or molecular biology should be supplemented with interest or experience in bioinformatics, and protein structure and engineering.

ONCOLOGY

Martin Oft, M.D. This group is newly formed. Its goal is to study the mechanisms of cancer progression from a non-invasive to an invasive and metastasizing phenotype in response to TGFb. These involve mechanisms associated with cell migration, cell cycle control as well as cell fate transition (epithelial to mesenchymal transition) (Curr Biol 8(23):1243-52. Genes Dev 10(19):2462-77. Genes Dev 14(24):3093-101.). To achieve this goal we will apply a combination of cell biological (including fluorescence time lapse and confocal microscopy), molecular (gene expression profiling) and biochemical methods (mass spectrometry), and will use and generate transgenic mouse tumor progression models (skin cancer).

David Parry, Ph.D. We are interested in the biochemical mechanisms that govern the mammalian response to DNA damage. We are looking for a post-doctoral fellow to examine the activation and interactions of the human CHK2 kinase using a combination of immunological/biochemical techniques and state-of-the-art proteomic methodologies. Our eventual goal is to identify and inhibit suitable target molecules in order to sensitize tumor cells to DNA damage.

Please send a *curriculum vitae*, the names of three references and a one-page statement of research interests to:

DNAX/Human Resources Department 901 California Avenue Palo Alto, CA 94304-1104 Fax: (650) 496-6520 e-mail: hr@dnax.org • www.dnaxresearch.com DNAX is an equal opportunity employer, mlf/h/v. DNAX is a biotechnology subsidiary of Schering-Plough Corp.

POST-DOCTORAL POSITIONS IN NEUROSCIENCE

The Neuroscience Institute at Morehouse School of Medicine in Atlanta has opportunities for a number of two-year NIH funded post-doctoral positions which are available immediately and have highly competitive pay scales. Research areas at the Neuroscience Institute include the molecular biology and physiology of circadian rhythm, signal transduction and neuromodulatory mechanisms in the basal ganglia, neuroimmunology of HIV-1 infection and multiple sclerosis, neuropeptides in aggressive behavior, regeneration of CNS neurons, regulation of G protein-coupled receptor expression and function, stroke, endothelial cell pathophysiology and protein targeting in photoreceptors. Investigators use whole animals to study behavioral changes, the intact central nervous system to study anatomical and electrophysiological properties, and simplified preparations, such as tissue slices and single cells, to study cellular activities and cell-cell communication. The newly-established Neuroscience Institute is fully equipped to perform state-of-the-art research, and works cooperatively with the National Institute of Neurological Disorders and Stroke and an advisory group of world-renowned neuroscientists to produce a diverse and vibrant research environment

duce a diverse and vibrant research environment.				
Research Area	Investigator	E-mail		
Cellular Signaling	Joseph A. Whittaker, Ph.D	whittaj@msm.edu		
Calcium dynamics CNS regeneration	Peter R. MacLeish, Ph.D	macleip@msm.edu		
Circadian Rhythm	Gianluca Tosini, Ph.D	tosinig@msm.edu		
G protein-coupled receptors	Darrel Jackson, Ph.D	jacksod@msm.edu		
Neuroimmunology/ MS/AIDS	Walter Royal, III, M.D.	wroyal@msm.edu		
Stroke/endothelial cell pathology	LaRoy Penix, M.D.	penixl@msm.edu		
Stroke/inflammation	Byron Ford, Ph.D.	bford@msm.edu		
Neuropeptides in aggression	Timothy Moore, Ph.D.	tmoore l@bellsouth.net		
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Candidates are encouraged to contact the laboratory of interest before submitting a formal application. More information about Morehouse School of Medicine can be found at www.msm.edu. Applications should be sent to: Morehouse School of Medicine Post-doctoral Program, Neuroscience Institute, 720 Westview Dr. SW, Atlanta, Ga 30310-1495. Deadline for Submission: October 15, 2001. The Morehouse School of Medicine is an equal opportunity employer.



MAYO CLINIC Rochester, Minnesota Postdoctoral Position

Two NIH funded postdoctoral positions are available to study structure and function of nicotinic acetylcholine receptors. One position focuses on the structure of the agonist binding site using protein expression, protein chemistry and structural determination and modeling. The second position combines mutagenesis with high-resolution single channel recording and kinetic analysis to investigate agonist binding, the energy landscape governing channel gating, and mechanisms by which inherited mutations alter receptor function. Seeking highly motivated applicants experienced in protein chemistry or electrophysiology. Send curriculum vitae, description of research interests and names of three references to:

> Steven M. Sine, PhD Mayo Clinic 1-135 MS 200 First Street SW Rochester, MN 55905 Email: sine@mayo.edu See also: http://www.mayo.edu/research

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

POSITIONS OPEN

Searching for a **POSTDOCTORAL** fellowship in a stimulating, multidisciplinary environment? Look no further; the Steele Laboratory of Tumor Biology has positions available. Areas of ongoing research: molecular and cell biology; immunology, biomedical engineering, mathematical modeling, physiology. Visit website: http://steele.mgh.harvard.edu.

POSTDOCTORAL POSITIONS TUMOR VACCINES

Available immediately at the School of Medicine and Biomedical Sciences, State University of New York at Buffalo, to study in situ tumor vaccination strategies using cytokine-encapsulated biodegradable microspheres (Cancer Research 60:3832-3837, 2000). This project will evaluate combination cytokine vaccines in transgenic murine tumor models and has an ongoing translational component, which is funded separately through the RAID mechanism at the NIH. An excellent research environment both in basic and clinical tumor immunology is available to individuals with a commitment to apply their basic research training in immunology, molecular biology, or biochemistry to developing novel cancer vaccination strategies. The position will involve collaborations with researchers at Roswell Park Cancer Institute. Support is available for at least three years and salary level is commensurate with qualifications. Please send curriculum vitae and names of three references to: Dr. Nejat Egilmez, Department of Microbiology, SUNY at Buffalo, 138 Farber Hall, 3435 Main Street, Buffalo, NY 14214. SUNYAB Research Foundation is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS Massachusetts General Hospital Harvard Medical School

Electrophysiologists and Biochemists with biophysical background sought for multidisciplinary project seeking sites of action of general anesthetics and alcohol. (1) Electrophysiological studies on ligand-gated ion channels (LGIC) including rapid concentrationjump on excised patches. Experience with patch clamping essential. Familiarity with kinetic analysis, molecular biology, and cell culture desirable. (2) Photoaffinity label anesthetic sites on LGICs and other target proteins (PKC, etc.). Locate sites on open channels by time-resolved photolabeling. Protein chemistry skills essential (purification of membrane proteins, separation and analysis of proteolytic frag-ments). Desirable experience: rapid kinetics, mass spectrometry, electron paramagnetic resonance. Send curriculum vitae and names of three references to: Position One: e-mail: forman@helix.mgh.harvard. edu or Position Two: e-mail: k_miller@helix. mgh.harvard.edu.

POSTDOCTORAL FELLOWS AND RESEARCH ASSISTANTS Rush-Presbyterian-St. Luke's Medical Center

Rush-Presbyterian-St. Luke's Medical Center is a member of the Rush System for Health and is the largest medical center in Illinois. Located just west of the Loop in downtown Chicago, Rush offers an ideal atmosphere for professionals to fulfill their career goals. We currently have the following opportunities available:

Postdoctoral Fellows: biochemistry, bone marrow transplant.

Research Assistants: biochemistry, cardiology, or-thopedics, and psychiatry.

Rush offers a competitive salary and benefits package including tuition reimbursement. For consideration, please send résumé to: Rush-Presbyterian-St. Luke's Medical Center, Attention: Gladys Lee, 729 South Paulina Street, Chicago, IL 60612. E-mail: gladys_lee@rush.edu.

Equal Opportunity Employer; Minorities/Females/Disabled/Veterans.

POSITIONS OPEN

PROJECT SEAHORSE AND JOHN G. SHEDD AQUARIUM Partnership for Marine Conservation POSTDOCTORAL FELLOWSHIP to lead re-

search on seahorse and pipefish husbandry. Research areas of interest include physiology, nutrition, reproduction, and disease. Position will also facilitate communication among a network of aquarium professionals and guide other syngnathid research. The post is based at Shedd Aquarium, Chicago, Illinois, U.S.A. with considerable travel.

Project Seahorse, an international marine conservation program (website: http://www.projectscnhorse. org), and Shedd Aquarium (website: http:// www.sheddaquarium.org) will manage this position in partnership.

Ph.D. must be submitted by 1 December 2001. Please send covering letter, curriculum vitae, three reference letters, and two examples of written work to: **Rhea Ravanera**, **Department of Biology**, 1205 **Ave Drive**, **Penfield**, **Montreal H3A 1B1 Canada. FAX: 1-514-398-2408**. E-mail applications will not be accepted. Only qualified applicants will be contacted. Deadline: 5 October 2001.

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: 2527–2530, 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 Med-ical 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 POSITIONS

Several Postdoctoral positions available to study the transcriptional regulation of drug resistance genes with an emphasis on the human Pglycoprotein gene, MDR1. Projects include (1) MDR1 transcription and its regulation by chromatin, tumor-suppressor proteins, and environmental stress, both in vitro and in vivo; (2) the mechanism of p53-mediated transcriptional repression; and (3) the mechanism of action of novel transcription-targeted marine compounds. The successful candidate will be highly motivated and have a strong background in molecular biology, pharmacology, and/or biochemistry. Send curriculum vitae and the names of three references to: Kathleen W. Scotto, Ph.D., Fox Chase Cancer Center, c/o Human Resources, 7701 Burholme Avenue, Philadel-phia, PA 19111. FAX: 215-728-2682; website: http://www.fccc.edu. Equal Opportunity Employer.

POSTDOCTORAL RESEARCH FELLOW

Seeking Postdoctoral Research Fellow with diverse skills in cardiac electrophysiology to participate in a research program on heart failure- and hypertrophyinduced cardiac arrhythmias under the supervision of **Dr. Stephen Vatner**, Director, Cardiovascular Research Institute, University of Medicine and Dentistry of New Jersey, New Jersey Medical School, and **Dr. Michael Rosen**, Director, Center for Molecular Therapeutics, Columbia University College of Physicians and Surgeons.

Send inquiries and curriculum vitae to: Dr. Michael Rosen; e-mail: emf3@columbia.edu or to Michael R. Rosen, M.D., FAX: 212-305-8351. Columbia University is an Affirmative Action/Equal Op-

portunity Employer.



A POSTDOCTORAL POSITION is available to study the neural codes for the learning of sequential movements and/or visual working memory using a multielectrode recording system. The candidate will join a large multidisciplinary group of Researchers in brain and cognitive sciences. Experience in animal training, sterile surgery, neurophysiological recording, and computer programming would be desirable. Send curriculum vitae, a statement of research interests, and three reference letters to: Daeyeol Lee, Ph.D., Department of Brain and Cognitive Sci ences, University of Rochester, Rochester, NY 14627. Website: http://www.bcs.rochester.edu/ ~dlee. Equal Opportunity Employer.

RESEARCH ASSOCIATE/POSTDOCTORAL POSITION available in November 2001 to study the evolution of pheromone proteins and genes. The po-sition is part of an NSF IRCEB project that integrates molecular, biochemical, behavioral, and neurophysical approaches to the study of pheromone evolution. Applicants must have a strong background in molecular biology and molecular evolution and experience working with RNA and cDNA as well as experience cloning and screening recombinant DNA libraries. Applicants must have a track record of scientific publication and a demonstrated facility for teamwork and interaction. The successful applicant also will work part-time with a team of Behaviorists and will have opportunities to work with collaborating teams of Protein Biochemists and Neurophysiologists. Ph.D. in molecular biology or evolutionary biology required. Complete position description may be viewed at website: http://osu.orst.edu/jobs. Send application letter, curriculum vitae, and means to contact three references to: Dr. Stevan J. Arnold, Department of Zoology, Oregon State University, 3029 Cordley Hall, Corvallis, OR 97331. Telephone: 541-737-3705. Apply by October 12, 2001. OSU is an Affirmative Action/Equal Employment Opportunity Employee and has a policy of being responsive to the needs of dual-career couples.

Genetics, molecular biology, and biochemistry **POSTDOCTORAL POSITIONS** are immediately available at the FBI Forensic Science Research Laboratory in Quantico, Virginia. Projects include developing single nucleotide polymorphism-based genotyping assays for mitochondrial DNA and Y chromosome analysis using standard and suspension microarrays. Candidates should possess a recent (less than three years) Ph.D. in genetics, molecular biology, biochemistry, or a related discipline and have experience with standard molecular biology techniques including DNA extraction, Southern blotting, PCR, and DNA sequencing. Familiarity with the ABI PRISMR 377 DNA sequencer and ABI PRISMR 310 genetic analyzer (Applied Biosystems) is desired. Annual stipend: \$40,000 to \$48,000. U.S. citizens only. Send curriculum vitae by September 30, 2001, to: Research Participation Program, Attention: Norma Patterson, Oak Ridge Institute for Science and Education, P.O. Box 117, Oak Ridge, TN 37831-0117. E-mail: pattersn@orau.gov; Telephone: 865-241-2877; FAX: 865-241-5219.

POSTDOCTORAL POSITION

Candidate will study molecular/cellular biology of hematopoietic stem cells with a research focus on the functions of newly cloned genes. Past experience in molecular biology and cell culture is required. Training in flow cytometry is desired. Please send research summary, curriculum vitae, and names and telephone numbers of three references to: Schickwann Tsai, M.D., Ph.D., Associate Professor, Division of Hematology, Department of Medicine, University of Utah School of Medicine, 30 North 1900 East, Salt Lake City, UT 84132-2408. E-mail: schickwann.tsai@bsc.utah.edu. The University of Utah is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.



NATIONAL INSTITUTES OF HEALTH NATIONAL EYE INSTITUTE

Job Opportunities

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

- Molecular Biology
- Biochemistry
- Cell Biology
- Epidemiology
- ImmunologyPsychophysics
- Biostatistics
- Salaries range from \$29,000 to \$118,400 per annum, based on experience and type of appointment.

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

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

NIH/NEI is an Equal Opportunity Employer



Rochester, MN is consistently rated as one of the best places to live in the U.S. Mayo Foundation is a non-profit physician-led clinical practice integrated with education and research in a unified multicampus system. For further information please visit http:// researchweb.mayo.edu/people/3/34668_cattaneo. Please send curriculum vitae and bibliography to:

> Roberto Cattaneo, PhD Mayo Clinic Molecular Medicine Program Guggenheim 18 200 First Street SW Rochester, Minnesota, 55905, USA

Literature: EMBO J. 17:3899; J. Virol. 75: 2087, 3343, and 6418; Blood 97:3746.

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

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 with State University of New York at Albany, and new initiatives in bioinformatics, genomics, nanobiotechnology, and integrated clinical sciences. Openings are available with the following investigators:

Marlene Belfort - Dynamics of mobile self-splicing introns

- Joan Curcio Retrotransposons and genome evolution in yeast
- Keith Derbyshire Bacterial transposition and molecular genetics of mycobacteria
- Xinxin Ding Xenobiotic metabolism and characterization of P450-knockout mice
- Joachim Frank Mechanisms of protein synthesis/Imaging of molecular interactions

Steven Hanes - Control of transcription and cell cycle in yeast

- Liaquat Husain Heterogeneous sulfur dioxide oxidation in clouds and fog
- Michael Koonce 3D structure of dynein
- Laura Kramer Arboviral fitness and genetic changes during host-switching
- Charles Lawrence Bioinformatics studies of transcription regulation
- David Lawrence Neuroimmunology and toxicology
- David LeMaster Chemical enzymology of protein thiol transfer
- Alberto Macario Transcription regulation of archaeal molecular chaperone genes
- Kathleen McDonough Molecular and cellular pathogenesis of Tuberculosis

Anne Messer - Gene therapy for neurological diseases

- Brian Pentecost Estrogen receptor-associated peptides and breast cancer
- Richard Seegal Environmental neurotoxicology and neurodegenerative disorders

Jim Turner - Use of nano- and micro-devices to study biology

- Patrick Van Roey Crystallographic studies of protein-DNA and protein-carbohydrate interactions
- Anne Walsh Gene expression in hematopoietic stem cells and chemoprotection

Gary Winslow - Immunity to intracellular bacteria

Jonathan Wolpaw - 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



POSITIONS OPEN

GENE EXPRESSION AND AGING

POSTDOCTORAL POSITION for studies of gene expression profiles in aging mice and humans. Previous experience in molecular biology required; prior work with cDNA arrays helpful. Send curriculum vitae, statement of research interests, and names and contact information for three references to: **Richard A. Miller, University of Michigan, Box 0940, CCGCB, Ann Arbor, MI 48109**. An Equal Opportunity Employer.

UNIVERSITY OF CALIFORNIA, IRVINE DEPARTMENT OF PATHOLOGY

Applications are invited for a **POSTDOCTORAL RESEARCHER** to work with a group developing vaccines for *Chlamydia trachomatis* infections. The candidate should have a Ph.D. in biological sciences with strong motivation in science and research. Experience with molecular techniques including expression of proteins using recombinant vectors and protein biochemistry is essential. Expertise working with animal models is desired. Salary range: S30,888 to S41,736. Candidates should send their curriculum vitae; statement of research interests; and the names, addresses, e-mail addresses, and telephone numbers of three references to: Luis M. de la Maza, M.D., Ph.D., Department of Pathology, Medical Sciences, Room D440, University of California, Irvine, Irvine, CA 92697-4800. E-mail: Imdelama@uci.edu. The Universty of Califonia, Invine, is an Equal Opportunity Employer committed to excellence through diversity.

BIOMATERIALS POSTDOCTORAL FELLOW

The goal is to develop new DNA- and DNAprotein-based materials with novel biosensing, electronic, and optical features. We are engineering higher-order DNA structures appended with quantum dots; zinc finger proteins and DNA-modifying enzymes are used to organize and manipulate the nucleic acids. Experience in working with nucleic acids is essential including restriction enzymes, PCR, and DNA isolation; protein engineering and purification experience a plus. This is an interdisciplinary project involving a team of Materials and Nucleic Acid Chemists. This is a two-year position. Send curriculum vitae and names of three references to: Professor Norbert Reich, Department of Chemistry and Biochemistry, University of California, Santa Barbara, CA 93106. E-mail: reich@chem.ucsb.edu.

POSTDOCTORAL POSITION is available to investigate molecular mechanism of TGF-beta signal transduction pathway using both *in viro* and *in viro* systems. For more information, please visit our website:http://rex.nci.nih.gov/RESEARCH/basic/ Icmb/zhang.htm. Candidates must have a Ph.D. and/or M.D. degree and less than five years of postdoctoral experience. A strong background in molecular biology, cell biology, and/or biochemistry is required. Send curriculum vitae and names of three references to: Ying Zhang, Ph.D., Laboratory of Cellular and Molecular Biology, National Cancer Institute, 37 Convent Drive, MSC 4255, Building 37, Room 1E24, Bethesda, MD 20892-4255. FAX: 301-496-8479; e-mail: yingz@helix.nih. gov.

POSTDOCTORAL POSITION in signal transduction available to study molecular mechanisms of the hypoxic response including activation of HIF-1a (see *PNAS* 98:9630, 2001; *Cancer Res.* 61:4136, 2001). Experience in molecular biology required. Send curriculum vitae and the names of three references to: **Dr. Frank Lee, Department of Pathology and Laboratory Medicine, University of Pennsyl**vania School of Medicine, 605 Stellar Chance Laboratories, Philadelphia, PA 19104. FAX: 215-573-2272; e-mail: franklee@mail.med.upenn.edu. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITIONS: translational research in prostate cancer. Positions available immediately for motivated individual to conduct translational research in prostate cancer. (1) Postdoctoral Fellows will have the unique opportunity to train in a molecular biology laboratory (Dr. Cory Abate-Shen) as well as in a clinical research laboratory (Dr. Robert DiPaola). (2) A second position involves the study of the mechanism of cytotoxicity and estrogenicity of licorice root and derivatives on prostate cancer in the laboratory and in a clinical trial in patients with prostate cancer. Qualified individuals should be a Ph.D. and/or M.D. as well as possess prior experience in molecular biology, mouse genetics, and/or cancer biology. Please forward curriculum vitae and three letters of reference to: Linda Van Derveer, The Dean and Betty Gallo Prostate Cancer Center at The Cancer Institute of New Jersey, 335 George Street, New Brunswick, NJ 08901. Equal Opportunity Employer.

A POSTDOCTORAL POSITION in microbial pathogenesis is available to investigate virulence mechanisms of Moraxella catarrhalis, an etiologic agent of middle ear disease in infants and young children. Emphasis will be placed on structure-function analysis of M. catarrhalis gene products involved in attachment of this pathogen to human cells. Experience with recombinant DNA techniques is required. Position includes salary, fringe benefits, and the opportunity to work in a dynamic research environment. Position available after September 1, 2001. Send curriculum vitae and the names and telephone numbers of three references to: Dr. Eric J. Hansen, Department of Microbiology, The University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75390-9048. FAX: 214-648-5905; e-mail: eric. hansen@utsouthwestern.edu. UT Southwestern is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION HOLLAND LABORATORY Immunology Department

Postdoctoral Fellow will study the molecular mechanism of T cell development in mice. The position requires a Ph.D. or M.D. degree and experience in molecular and/or cellular biology. Please send curriculum vitae and have three letters of recommendation forwarded to: Dr. Lisa M. Spain, c/o American Red Cross, Holland Laboratory, Department of Immunology, 15601 Crabbs Branch Way, Rockville, MD 20855. The Holland Laboratory is the research and development division of the American Red Cross and is located in Rockville, Maryland, 10 miles north of the NIH in suburban Washington, D.C. It is affiliated with George Washington University Medical School. Equal Oppertunity Employer; Minority/Fende/Disabled/V cteran.

POSTDOCTORAL POSITION, Beth Israel Deaconess Medical Center and Harvard Medical School, available immediately to study interaction of HIV and HCV on cellular immune responses. NIH-funded project will examine effect of viral quasispecies changes on immune recognition and function. Candidates should have a background in immunology; experience in cell culture and cell signaling desirable. Please send curriculum vitae and names of three references to: Dr. Margaret Koziel, Beth Israel Deaconess Medical Center, Infectious Disease, Harvard Institutes of Medicine, Room 223a, 330 Brookline Avenue, Boston, MA 02215. E-mail: mkoziel@caregoup.harvard.edu.

POSTDOCTORAL POSITION at Brigham and Women's Hospital/Harvard Medical School to investigate the molecular biology of Kaposi's sarcomaassociated, herpesvirus (KSHV or HHV8)-mediated oncogenesis. Strong background in molecular biology or biochemistry desirable. Send or e-mail curriculum vitae and names of three references to: Dr. Kenneth Kaye, Channing Laboratory, Brigham and Women's Hospital, 181 Longwood Avenue, Boston, MA 02115. E-mail: kkaye@rics.bwh.harvard. edu.

POSITIONS OPEN



POSTDOCTORAL FELLOWSHIP in cell biology. Ph.D. in cell biology/related areas. Experience in tissue engineering/biomaterials a plus. New Fellow will work on NSF/NIH-supported projects. Send curriculum vitae/references to: Professor C. Laurencin, Biomaterials/Tissue Engineering Center, Chemical Engineering Department, Drexel University, 3141 Chestnut Street, Philadelphia, PA 19104. E-mail: laurencin@drexel.edu.

POSTDOCTORAL TRAINING POSITIONS Neurobiology of Disease University of Pittsburgh

Our NIH-funded training program in the neurobiology of psychiatric and neurodegenerative disease is accepting applications from individuals eligible for NIH support (U.S. etitzens or permenent residents). Trainees will be part of a highly interactive environment and have opportunities for experience in clinical neuroscience as well as a wide range of basic neuroscience. The two-year Fellowship provides an annual stipend based on the NIH scale and family health benefits. Interested candidates anticipating a Ph.D., M.D., or similar degree should contact: Dr. M. J. Zigmond; e-mail: oliverio@pitt.edu for a list of faculty and interests.

FELLOWSHIP/RE-POSTDOCTORAL SEARCH ASSOCIATE position. Available immediately for experienced and accomplished Biologist/ Biochemist with recent Ph.D. to work as part of an interdisciplinary team investigating thrombosis and atherosclerosis. Experience in biochemistry and in the analysis of transgenic mice highly desirable. The appointment is for two years with an opportunity for career advancement. Send curriculum vitae with references to: Douglas Cines, M.D., Professor, Department of Pathology and Laboratory Medicine, University of Pennsylvania, 513A Stellar Chance, 422 Curie Boulevard, Philadelphia, PA 19014. E-mail: dcines@mail.med.upenn.edu firmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

Immediate opening to work on the role of papillomavirus oncoproteins on epithelial cell immortalization, emphasizing either the viral proteins or the cellular pathways that are targeted. The laboratory is supported by state-of-the-art facilities in a stimulating scientific environment. The applicant should have a recent Ph.D. with a background in molecular biology, cell cycle, cell biology, or virology. Apply by sending curriculum vitae and the names of three references to: **Dr. Denise A. Galloway, Fred Hutchinson Cancer Research Center, 1100 Fairview Avenue North, Room C1-105, Seattle, WA 98109-1024. E-mail: dgallowa@fhcrc.org.**

POSTDOCTORAL POSITION available in computational biology to simulate gene, protein, and metabolite interactions with the goal of exploring stability and feedback in cells. Candidates with a back-ground in mathematics, physics, engineering, or molecular biology and experience in quantitative modeling of biological processes are encouraged to apply. Please send curriculum vitae and names of three references to: Dr. Brent D. Foy, Department of Physics, Wright State University, Dayton, OH 45435. E-mail: brent.foy@wright.edu. Affirmative Action/ Equal Opportunity Employer.

POSTDOCTORAL FELLOW in gene therapy of autoimmune disease, allergic disease/neurodegenerative disorder. Send curriculum vitae and three letters of recommendation to: T. J. Yoo, M.D., Ph.D., Professor of Medicine and Molecular Sciences and Neuroscience Program, University of Tennessee Center for the Health Sciences, 956 Court Avenue, Room A331, Memphis, TN 38163. Telephone: 901-448-6663; FAX: 901-448-5735; email: tyoo@utmem.edu.



POSTDOCTORAL RESEARCH POSITIONS NATIONAL INSTITUTE OF ENVIRONMENTAL HEALTH SCIENCES NATIONAL INSTITUTES OF HEALTH P.O. BOX 12233, RESEARCH TRIANGLE PARK, NC 27709-2233



Action and Function of Nuclear Orphan Receptors Anton Jetten, PhD (jetten@niehs.nih.gov) Activating Transcription via Chromatin Remodeling Trevor Archer, PhD (archer1@niehs.nih.gov) Applied Toxicology and Carcinogenesis John Bucher, PhD (bucher@niehs.nih.gov) Cyclooxgenases, NSAID's and Cancer Robert Langenbach, PhD (langenb1@niehs.nih.gov) Cytochrome P450 Arachidonic Acid Metabolism Darryl Zeldin, MD (zeldin@niehs.nih.gov) DNA Polymerase Fidelity: Structure-Function Analysis John Drake, PhD (drake@niehs.nih.gov) DNA Repair, Recombination and Double-strand Breaks Michael A. Resnick, PhD (resnick@niehs.nih.gov) Eicosanoids and Pulmonary Immune Function Darryl Zeldin, MD (zeldin@niehs.nih.gov) Estrogen Action on Complex Promoter Christina Teng, PhD (teng@niehs.nih.gov) Female Reproductive Pathology Barbara Davis, PhD (davis1@niehs.nih.gov) Free Radical Metabolism Ronald Mason, PhD (mason4@niehs.nih.gov) Functional Measures of DNA Repair in Human Populations Jack Taylor, MD, PhD (taylor@niehs.nih.gov) Ion Channel Physiology Jerrel Yakel, PhD (yakel@niehs.nih.gov) Immunotoxicology Dori Germolec, PhD (germolec@niehs.nih.gov) Macromolecular X-ray Crystallography Traci Hall, PhD (hall4@niehs.nih.gov)

Male Germ Cell Development Mitch Eddy, PhD (eddy@niehs.nih.gov) Mechanisms of Cell Adhesion and Migration Steven Akiyama, PhD (akiyama@niehs.nih.gov) Mechanisms of Begulation of Apoptosis

Mechanisms of Regulation of Apoptosis John Cidlowski, PhD (cidlowski@niehs.nih.gov)

Microchimerism in the Pathogenesis of Myositis and Other Autoimmune Diseases (Bethesda, Maryland) Frederick Miller, MD, PhD (miller19@niehs.nih.gov) Neuroimmunology

Neuroimmunology Jean Harry, PhD (harry@niehs.nih.gov)

Regulation of Signal Transduction Pathways by Adaptor Proteins John O'Bryan, PhD (obryan@niehs.nih.gov)

Signal Transduction by Inositol Phosphates Stephen Shears, PhD (shears@niehs.nih.gov)

Stress Induced Signaling Pathways Elizabeth Murphy, PhD (murphy1@niehs.nih.gov)

Structure-Function Studies of Prokaryotic Nucleotide Excision Repair Proteins

Ben Van Houten, PhD (vanhout1@niehs.nih.gov)

Structure and Function of p53 and Related Genes Michael A. Resnick, PhD (resnick@niehs.nih.gov)

Role of PPAR Receptors in Lung Inflammation Anton Jetten, PhD (jetten@niehs.nih.gov)

Environmental Autoimmunity Group (Bethesda, Maryland) Frederick Miller, MD, PhD (miller19@niehs.nih.gov)

Glucocorticoid and Orphan Nuclear Receptor Action John Cidlowski, PhD (cidlows1@niehs.nih.gov)

Pediatric Environmental Epidemiology

Walter Rogan, MD (rogan@niehs.nih.gov) Signal Transduction Events in the Pathogenesis of Pulmonary Fibrosis James Bonner, PhD (bonnerj@niehs.nih.gov)

Must possess Ph.D., M.D. or equivalent with no more than five years of postdoctoral experience. For further details, access http://www.niehs.nih.gov/vacancy/postdoc.htm. To apply, submit a cover letter, curriculum vitae and the names of three references to the hiring scientist at the above address. NIH/NIEHS Is An Equal Opportunity Employer



French Institute of Health and Medical Research

Inserm is the French institute devoted to biomedical research and health. 10,000 persons work in 300 Inserm laboratories. Inserm has a budget over 450 million euros. Inserm collaborates with 93 countries and 260 industrial partners.

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The program will allow awardees to obtain:

• a financial support of 60,000 euros per year for a 3 year period

- · laboratory space of approximately 50 m2
- access to core technological facilities
- to host a foreign post-doctoral fellow

The Avenir program concerns young researchers with a permanent position or French and foreign post-doctoral fellows who have a creative research project.

Inserm intends to select 45 projects.

For complete information consult the web site of Inserm http://www.inserm.fr (" actualités ") or call 33 1 44 23 67 01 or send a mail to postel-vinay@tolbiac.inserm.fr

POSITIONS OPEN

RESEARCH ASSISTANT PROFESSOR/ POSTDOCTORAL RESEARCH ASSOCIATE to work on structure/function relationships in blood clotting proteins. Must have experience in molecular biology including mutagenesis, expression, and purification of recombinant proteins. Ph.D. in biochemistry or molecular biology and experience in cell biology, enzyme kinetics, and protein-protein interaction highly desirable. Send curriculum vitae and three letters of reference to: S. Paul Bajaj, Ph.D., Division of Hematology and Oncology, Saint Louis University Health Sciences Center, 3635 Vista Avenue, P. O. Box 15250, St. Louis, MO 63110. E-mail: bajajps@slu.edu; FAX: 314-773-1167. Saint Louis University is a Catholic Jesuit Institution dedicated to education, research, and health care. Saint Louis University is an Affirmative Action/Equal Opportunity Employer and encourages applications of women and minorities.

POSTDOCTORAL POSITION (two to four years) is available immediately to study cellular signaling involved in osmotic regulation of immune cell function (*JCI* **101**:2768). Starting salary will depend on qualifications. Applicants should be recent graduates with Ph.D. or equivalent degree and should have a strong background in cellular/molecular biology with experience in signal transduction. Familiarity with imaging is desired. Send curriculum vitae and references to: W. G. Junger, Ph.D., University of California San Diego School of Medicine, 200 West Arbor Drive, San Diego, CA 92103-8236. E-mail: wjunger@ucsd.edu; Telephone: 619-543-2903; FAX: 619-543-2421.

POSTDOCTORAL POSITIONS Tumor Immunology

Two Postdoctoral positions are available immediately to study cellular and molecular mechanisms of antigen presentation leading to activation and/or regulation of activation of CTL in a human tumor model (ongoing experimental approaches include microarray analysis of dendritic cell gene regulation and retroviral expression of tumor antigens in APCs). Candidates should submit curriculum vitae with three references to: Bijay Mukherji, M.D., University of Connecticut School of Medicine, Farmington Avenue, Farmington, CT 06030.

POSTDOCTORAL POSITION

An immediate Postdoctoral Fellow position is available to study the biology of T lymphocytes. Projects include thymocyte selection, peripheral tolerance, and homeostasis. Applicants must have either a Ph.D. or M.D. with a solid foundation in molecular biology or biochemistry. Please send curriculum vitae, a statement of research interests, and two letters of recommendation to: Calvin B. Williams, M.D., Ph.D., Department of Pediatrics, Washington University School of Medicine, Campus Box 8208, 660 South Euclid, St. Louis, MO 63110. E-mail: williams_c@kids.wustl.edu.

BIOCHEMISTRY POSTDOCTORAL FELLOWSHIP

An NIH-funded position is available immediately to study mammalian DNA methyltransferases with a focus on mechanistic enzymology and enzyme regulation. Experience in protein purification, enzyme kinetics, and some molecular biology methods is desirable. This is a two-year position. Send curriculum vitae and names of three references to: **Professor Norbert Reich, Department of Chemistry and Biochemistry, University of California, Santa Barbara, CA 93106. E-mail: reich@chem.ucsb.edu**.

Two **POSTDOCTORALS** needed to study molecular mechanisms of Alzheimer's disease focusing on presenilin-mediated membrane protein proteolysis and downstream gene expression profiling. Ph.D. or M.D.; strong background in biochemistry and molecular biology. Send letter, curriculum vitae, and names of three references to: Dr. Weiming Xia, Assistant Professor, Center for Neurologic Diseases, Harvard Medical School; FAX: 617-525-5252; e-mail: wxia@rics.bwh.harvard.edu.

POSITIONS OPEN

POSTDOCTORAL FELLOW is needed to isolate and characterize multidrug resistant HIV-1 isolates. Responsibilities will include (1) cloning and sequencing of suspected multidrug-resistant clinical HIV-1 isolates, (2) creating recombinant virus isolates and developing novel methods for assessing in vitro replication and drug susceptibility, (3) performing heteroduplex mobility assays on cDNA from HIV-1 isolates to characterize diversity within the virus quasispecies, and (4) participating in the analysis of RT and protease sequences performed at Stanford University Hospital. The individual will be part of two laboratories' endeavors, those of Drs. Robert Shafer and Christopher Contag, and will be part of this collaborative effort. Interactions with other researchers at Stanford and collaborating institutions are anticipated and the Postdoctoral Fellow will participate in presentations and manuscript preparation. An M.D., M.D./Ph.D., or Ph.D. degree in biological sciences is required, and the successful candidate should have research experience with HIV. The candidate should also have previous experience with cell culture, basic molecular biology techniques, DNA sequencing, and sequence analysis. Reply to: Robert Shafer, M.D., Stanford University, 300 Pasteur Drive, Grant Building, Room S-156, Stanford, CA 94305. E-mail: rshafer@cmgm.stanford.edu.

POSTDOCTORAL RESEARCH ASSOCIATE

The position is available immediately to study role of airway mucins in cystic fibrosis. The individual will have a Ph.D. and experience in microbiology, molecular biology, and protein chemistry. Salary range: \$28,000 to \$30,000 per year. Please apply to: Dr. Gordon Sachdev, Professor of Pharmaceutical Sciences, College of Pharmacy, University of Oklahoma, P.O. Box 26901, Oklahoma City, OK 73190. FAX: 405-271-7505; e-mail: gordonsachdev@ouhsc.edu.

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

POSTDOCTORAL POSITIONS Proteins

Postdoctoral positions are available immediately in our innovative program in the development of AIDS vaccine and artificial proteins at Vanderbilt University. Preference for candidates with a strong background in protein expression, phage display library, or vaccinology. Send curriculum vitae and names of three references to: Dr. James P. Tam, Microbiology and Immunology, Vanderbilt School of Medicine, A5119 MCN, Nashville, TN 37232-2363. FAX: 615-343-1467; e-mail: james.tam@mcmail. vanderbilt.edu. An Affirmative Action/Equal Opportunity Employer.

The University of California Davis Genome Center invites applications for two **POSTDOCTORAL POSITIONS** in computational biology. Our research program studies DNA structural transitions and their roles in transcriptional regulation and other processes. Applicants need strength in either math, computer science, or scientific computing; some knowledge of molecular biology; and programming experience. Submit letter, curriculum vitae, and three references to: **Dr. Craig Benham, UC Davis Genome Center, One Shields Avenue, University of California, Davis, CA 95616. FAX: 530-754-9658; e-mail: cjbenham@ucdavis.edu. UC Davis is an Affinative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately to investigate the use of gene therapy in animal models of aging, epilepsy, or learning/memory disorders. Candidates with electrophysiology, neuroanatomy, or molecular biology experience preferred. Person filling this position will interact extensively with members of the J.P. Scott Center for Neuroscience, Mind, and Behavior. Please send curriculum vitae, description of research interests, and names and addresses of three references to: Dr. Kevin Pang, Bowling Green State University, Department of Psychology, Bowling Green, OH 43403.

POSITIONS OPEN

POSTDOCTORAL POSITIONS MOLECULAR BIOLOGY OF BACTERIAL PATHOGENESIS

Postdoctoral positions are available to study the structure, function, and trafficking of cholera toxin; use of chimeric cholera toxins as vaccines; and the iron-regulated repressors DtxR and IdeR and their regulons in C. diplutheriae and M. tuberculosis. A Ph.D. in microbiology, molecular biology, genetics, biochemistry, cell biology, or a related field is required. Research facilities and professional environment are excellent and the parks and recreational facilities of the beautiful Rocky Mountains are easily accessible. Salary is commensurate with training and experience. Submit curriculum vitae, bibliography, and names of three professional references to: Dr. Randall Holmes, Department of Microbiology, Campus Box B175, University of Colorado Health Science es Center, 4200 East Ninth Avenue, Denver, CO 80262. The UCHSC is committed to Equal Opportunity and Affirmative Action.

Two **POSTDOCTORAL FELLOW POSI-TIONS**, Syracuse University. Two positions are available immediately to study the structure, function, and cell biology of calcium-sensing receptors. Preference will be given to applicants having experience in molecular biology, membrane protein biochemistry, or confocal microscopy. Ph.D. is required. Salary is commensurate with experience according to NIH guidelines. Send curriculum vitae, a statement of research interests, and contact information for three references

> Gerda E. Breitwieser, Ph.D. Syracuse University Department of Biology 122 Lyman Hall 108 College Place Syracuse, NY 13244 E-mail: gebreitw@syr.edu

POSTDOCTORAL FELLOWSHIP in molecular cardiovascular biology at University of California San Francisco/Cardiovascular Research Institute. Current projects focus on signaling/gene transcription governing cardiomyocyte proliferation and differentiation. Systems include primary cell culture and mouse models. Applicants must have Ph.D. and/or M.D. and a strong background in molecular/cellular biology. Send curriculum vitae, research summary, and names of three references to: H. S. Bernstein, M.D., Ph.D., University of California San Francisco, Sd 94143-0130. FAX: 415-514-0235; email: hsbernstein@pedcard.ucsf.edu; website: http://bernstein.ucsf.edu. Affirmatire Action/Equal Opportunity 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: almassy@ rocketmail.com; website: http://medschool. umaryland.edu/Microbiology/Index.html.

POSTDOCTORAL POSITION in allergy and inflammation laboratory to study inhibitory cell surface receptors expressed on mast cells and other immune system cells (see *JEM* **194**:227). Candidates should have a strong background in immunology/ inflammation and molecular biology. Send curriculum vitae and contact information for three references to: Howard R. Katz, Ph.D., Harvard Medical School/Brigham and Women's Hospital; Division of Rheumology, Immunology, and Allergy; 1 Jimmy Fund Way, Room 628A; Boston, MA 02115. E-mail: hrkatz@mbcrr.harvard.edu.

Postdoctoral Fellow Genetics of Diabetes

The Max McGee Diabetes Research Center at the Medical College of Wisconsin and Children's Hospital of Wisconsin seeks an enthusiastic and able postdoctoral fellow to take a lead role in a project, exploring gene expression profiling differences in the pathogenesis of type 1 diabetes. Position requires prior experience in cellular immunology, preferably in molecular biology. The successful candidate will join an interdisciplinary team at the Center, who will use emerging technologies to integrate mapping, sequencing and expression data to produce a functional genomics framework to delineate diabetogenic pathways for further investigation.

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

Medical College of Wisconsin Department of Pediatrics Attn: Jane Martell 8701 Watertown Plank Road, MFRC756 Milwaukee, WI 53226



MCW is committed to equal opportunity and affirmative action.

Laboratory of Molecular Biology, Cambridge

Postdoctoral Scientist

Applications are invited for a postdoctoral position in the group of Dr P Holliger. Our research focuses on in-vitro evolution and its application to the study of protein and nucleic acid structure and function at the molecular level. We have recently developed a powerful novel strategy for molecular evolution based on compartmentalised self-replication (Proc. Natl. Acad. Sci. USA (2001), 98, 4552-7). You will join the team in the further development of the technology and its application to relevant targets. More information can be found at: http://www2.mrc-lmb.cam.ac.uk/groups/ph1/home.html

You should hold a PhD or equivalent degree with training and experience in molecular biology, in particular recombinant DNA techniques. Experience of working with RNA will be considered an advantage.

The appointment will be for three years on MRC salary band 4. The starting salary is likely to be $\pounds 20,000 - \pounds 24,000$ per annum, depending on qualifications and experience.

For further information about the post, please contact Dr Philipp Holliger, MRC Laboratory of Molecular Biology, Hills Road, Cambridge CB2 2QH, UK or e-mail: ph1@mrc-Imb.cam.ac.uk

Applications should include a full CV and the names and addresses of two professional referees who can be contacted prior to interview. Please quote job reference: PNAC/801/12, and e-mail to: recruit@mrc-Imb.cam.ac.uk or post to: Kelly Andrews, Personnel Assistant, MRC Centre, Hills Road, Cambridge CB2 2QH.

Closing date: 28 September 2001.

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POSTDOCTORAL RESEARCHER

Your work will contribute to breakthrough applied computational biology to unify the description of repetitive DNA sequences in a genome. The project's primary goal is the development of global descriptions of nucleotide sequence repetitiveness using a suffix tree algorithm. Additionally, you will investigate correlations between biological functions and repetitiveness in both coding and non-coding sequence. Using your computational expertise, you will exploit novel relationships between DNA repetitiveness and biological functions to build predictive bioinformatic tools. Your mentoring will focus on developing skills and publication. This is a one-year appointment with potential for second-year renewal. Requires a PhD in Computer Science, Statistics, Biology, Molecular Biology or other related field, computer programming and development experience, and/or implementing computational algorithms. Knowledge of genetics and genomics combined with the ability to document scientific research and software are necessary. Demonstrated skills in C and Perl programming on a Unix platform and experience with HTML/CGI are desired. The ideal candidate will be self-motivated with excellent interpersonal skills, a strong publication record, and knowledge of suffix trees and gene expression regulatory elements.

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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 ATPgated 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. You are invited to visit our website for a list of recent publications (website: http:// medschool.slu.edu/pharmphys/fac/egan/egan. html). Prior experience with whole cell and/or single channel patch clamp techniques is preferred. Applicants must have a Ph.D., M.D., or equivalent. To apply, submit a cover letter, curriculum vitae, and copies of recent publications. Candidates who meet our qualifications will be asked to submit the names of four 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)

or Dr. Mark M. Voigt (e-mail: voigtm@slu.edu) Department of Pharmacological 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.

POSTDOCTORAL POSITION available in neuronal cell biology for the study of protein trafficking in neuronal dendrites and its relation to synapse formation and plasticity. Candidates should be experienced in molecular biology, protein biochemistry, and cell imaging. Interested candidates should submit curriculum vitae and contact information for three references to: Michael D. Ehlers, M.D., Ph.D., Department of Neurobiology, Duke University Medical Center, Box 3209, Durham, NC 27710. Email: ehlers@neuro.duke.edu. Duke University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP at the University of Hawaii to study cellular mechanisms of stimulus-secretion coupling in peptidergic secretory cells (website: http://www.pbrc.hawaii.edu/ian/). Experience in at least one of the following: patch clamping with capacitance, fluorescence microspectroscopy (e.g., fura), amperometry. Monthly stipend: \$2,800 to \$3,000; from June 2002 for two years. Send statement of career goals, résumé, and names and e-mail or telephone contacts for three references to: Ian Cooke, Békésy Laboratory of Neurobiology, 1993 East-West Road, Honolulu, HI 96822.

POSTDOCTORAL POSITION available to engineer proteins/enzymes for biotechnological applications. Candidates must have demonstrated expertise in molecular biology and protein expression. Salary will be commensurate with experience. Send curriculum vitae and names of three references to: Dr. Chris Cheng/LT, University of Illinois, Department of Animal Biology, 515 Morrill Hall, 505 South Goodwin, Urbana, IL 61801. FAX: 217-244-4565; e-mail: ab@life.uiuc.cdu.

POSTDOCTORAL POSITIONS to join a team using multiple approaches to investigate DNA replication, DNA repair, the cancer process, and cell cycle regulation. Experience in fidelity of DNA synthesis, helicases, or RNA binding proteins preferred. New York Medical College, BSB Room 118, Valhalla, NY 10595. E-mail: Marietta_Lee@nymc.edu. New York Medical College is an Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITIONS in the Fields of Computational Neuroscience and Cognitive Science RIKEN BSI

Laboratory for Dynamics of Emergent Intelligence, Brain-Style Intelligence Research Group, RIKEN Brain Science Institute (BSI), invites applicants for Postdoctoral Scientists. Our objective is to clarify the neural principle for the dynamics of emergent intelligence in novel environments. Particular emphasis is given to the functional role of synchronization of oscillations in distributed neural networks. For further information, see website: http://www. dei.brain.riken.go.jp/. Applicant should submit full curriculum vitae detailing education and experience (attached with your photograph) in addition to a complete bibliography of publications. The report summarizing his/her own research in the past and the coming five years in two sheets of paper and the names, addresses, and e-mail addresses of two references must also be supplied. Contact: Dr. Yoko Yamaguchi, Laboratory Head, Laboratory for Dynamics of Emergent Intelligence, Brain Science Institute, RIKEN, 2-1 Hirosawa, Wako, Saitama, 351-0198 Japan. FAX: +81-48-467-6938.

POSTDOCTORAL POSITION available immediately to study the contribution of NMDAR2 receptor subunits to NMDA receptor/channel function in neurosecretory cells of the hypothalamus. Some emphasis will be placed on signal transduction. Techniques offered include tissue culture, single channel recording, immunochemistry, immunoprecipitation, and protein knockdown using antisense methods or gene transfer, radioligand uptake, and cell survival. Applicants must have electrophysiology, preferably patch clamp experience. Starting salary: \$28,000 to \$32,000 plus benefits. Send curriculum vitae including contact information for three references to: Dr. M. Currás-Collazo, Department of Cell Biology and Neuroscience, University of California, 1208 Spieth Hall, Riverside, CA 92521. E-mail: margarita.curras@ucr.edu; website: http://cnas. ucr.edu/~neuro/curras.htm.

POSTDOCTORAL FELLOW wanted for clinical research on the effects of abstinence from alcohol on brain structure, perfusion, and metabolism. Applicants must be familiar with basic magnetic resonance techniques (acquisition and processing), have strong interpersonal and communication skills to work confidently with patients and researchers, and have interest in new ways of integrated data analyses. A Ph.D. in neuroscience, chemistry, physics, or related area is required. Send curriculum vitae and names of three references to: Dieter J. Meyerhoff, Ph.D., University of California San Francisco, MR Unit DVA Medical Center, 4150 Clement Street 114M, San Francisco, CA 94121. E-mail: djmey@itsa.ucsf. edu.

Two **POSTDOCTORAL FELLOW** positions are available immediately for (1) functional analysis of genes associated with allergic diseases and (2) murine model study of asthma. Candidates with a recent Ph.D. and a strong background in the respective areas are encouraged to apply. Submit applications including curriculum vitae, summary of research goals, and a list of three references to: **Dr. Shau-Ku Huang, c/o Pat Oldewurtel; e-mail: poldewur@mail.jhmi.edu**. *The Jolns Hopkins University School of Medicine is an Equal Opportunity/Affinnative Action Employer*.

POSTDOCTORAL POSITION is available to study the molecular biology of Gammaherpesvirus. The laboratory is located in the Comprehensive Cancer and Geriatrics Center at the University of Michigan Medical School. Candidates will have access to state-of-the-art facilities and exciting scientific interactions. Please send curriculum vitae and three references to: Erle S. Robertson, Ph.D., 3217 CCGC Building , 1500 East Medical Center Drive, University of Michigan Medical School, Ann Arbor, MI 48109-0934. E-mail: esrobert@umich.edu.

POSITIONS OPEN

A POSTDOCTORAL POSITION is available immediately to study activity-dependent mRNA targeting in primary neuronal cultures. Current work focuses on synthesizing novel fluorophores for sequence-specific mRNA detection in living neurons as well as characterizing RNA-binding proteins that interact with specific dendritically targeted mRNAs. Experience in either RNA molecular biology, synthetic organic chemistry, or neuronal culture recommended. E-mail cover letter, curriculum vitae, and reference information to: Samie R. Jaffrey, M.D., Ph.D., Cornell University Weill Medical College, Department of Pharmacology, 1300 York Avenue, Box 70, New York, NY 10021. E-mail: srj2003@ med.cornell.edu.

POSTDOCTORAL POSITIONS are available immediately to study the roles of transcription factors in regulating neuronal survival and differentiation (see Development 126:2191; 126:2869; 128:2421; Ann. Rev. Neurosci. 24:677) in a newly established laboratory at the San Francisco VA Medical Center/University of California San Francisco. Candidates should have a recent M.D. or Ph.D. degree with a strong background in biochemistry, molecular biology, neurobiology, or mouse molecular genetics. Please send a cover letter, curriculum vitae, and three letters of recommendation to: Dr. Eric J. Huang, Pathology Service 113B, BA Medical Center, 4150 Clement Street, San Francisco, CA 94121. E-mail: ejhuang@itsa.ucsf.edu.

POSTDOCTORAL RESEARCH ASSOCI-ATE position available at Center for Inherited Disorders of Energy Metabolism, Pediatrics, and Genetics, Case Western Reserve University, for Ph.D. with molecular biology training to develop molecular testing and genetic investigation related to disorders of mitochondrial metabolism. General information at website: http://www.cwru.edu/med/CIDEM/ cidem.htm. U.S. resident or visa required. Send curriculum vitae, cover letter, and three reference contacts to: Douglas Kerr, M.D., Ph.D., 11100 Euclid Avenue, Cleveland, OH 44106-6004. E-mail: dxk8@ po.cwru.edu.

Two **POSTDOCTORAL POSITIONS** available for studies of oncogenic signaling mediated by AKT kinases and functional studies of tumor suppressors involved in mesothelioma. Experience with molecular genetic techniques and/or protein function is necessary. Please send curriculum vitae, statement of research interests, and the names and addresses of three references to: Joseph Testa, Ph.D., Human Genetics Program, Fox Chase Cancer Center, c/o Human Resources, 7701 Burholme Avenue, Philadelphia, PA 19111. FAX: 215-728-2682; website: http://www.fccc.edu. Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCI-ATE positions for Ph.D. in molecular biology/immunology to work with a team of basic Scientists and clinicians to study the mechanism of (1) immunosuppression by ovarian cancer, (2) genetic vaccines directed at Her -2, (3) novel therapeutics targeting p53 and apoptosis pathway, or (4) chemosensitivity induced by vaccines or novel therapeutics. Contact: Dr. Wei-Zen Wei, Karmanos Cancer Institute, 110 East Warren Avenue, Detroit, MI 48201. E-mail: weiw@karmanos.org.

Wayne State University and the Barbara Ann Karmanos Cancer Institute are Equal Opportunity Employers.

POSTDOCTORAL POSITIONS available at University of California, San Diego, to study molecular and cellular mechanisms of atherogenesis. Research areas of interest include transcriptional regulatory mechanisms of chemokine and scavenger receptors and signal transduction pathways associated with their activation. Experience in molecular/cellular biology preferred. Must meet NIH training grant guidelines. Send inquiries and curriculum vitae to: Dr. O. Quehenberger, UCSD, 1080 BSB, La Jolla, CA 92093-0682. E-mail: oquehenberger@ ucsd.edu.



Genome Therapeutics Corporation is translating scientific discoveries into exciting new therapies for the prevention and treatment of disease and the overall improvement of human health. Come join our work!

Postdoctoral Opportunities Anti-infectives R&D Center of Expertise

Infectious Disease Research

Responsibilities include development of regulated gene expression, expression profiling and phenotypic analysis in bacteria under different drug or environmental conditions for uncovering the mechanism of action of novel antimicrobials. Ph.D. in Microbiology is required. The successful candidate for this position must possess 0-2 years post Ph.D. experience in Microbiology or a related field as well as experience in general Molecular Biology techniques. Experience and research skills with microarray technologies such as RNA extraction, microarray hybridization and data analysis, differential display, taqman and related techniques would be preferred. This Postdoctoral position is expected to last two years.

Fungal Research

Responsibilities include molecular genetics and genomics research for development of antifungal therapies. Join a group with proven expertise in fungal genomics and access to state-of-the-art technology. The successful candidate for this position will have their Ph.D. in Molecular Genetics/Biology with a specific focus on microbial molecular genetics. Previous lab research experience in fungal or bacterial molecular genetics required and additional experience with mammalian cell culture preferred. This Postdoctoral position is expected to last two years.

Other postdoctoral positions may be available in the future in the following areas: Anti-Infectives Research, Functional Genomics, Bioinformatics, Chemistry and Human Genetics.

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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

Max Planck Institute for Demographic Research



Directors: Prof. James W. Vaupel - Prof. Jan M. Hoem

The Laboratory of Survival and Longevity of the Max Planck Institute for Demographic Research is seeking a qualified person for a

Post-doctoral position

in its laboratory working on aging in yeast.

Applicants must have completed a Ph.D. in Biological Sciences. The position requires expertise in molecular biology and genetics, knowledge of physiology, biochemistry, data management and analysis, and in the English language. Experience on yeast and/or aging would be an advantage, too. Interest in biodemography would also be highly desirable.

The successful applicant would work on the assessment of an aging process in the budding yeast Saccharomyces cerevisiae in the stationary phase, by following the long-term changes of yeast cells in the stationary phase. The second part of the project would be to investigate modulation by exposure to mild stresses of time-related changes in the stationary phase.

The appointment is for two years, with the possibility of a third year of extension. Work will start on 1 November 2001. Remuneration will be in accordance with the rules of the Max Planck Society for post-doctoral fellows. Applications from women are particularly encouraged. Preference will be given to disabled persons, all else being equal.

To apply, send a curriculum vitae, a list of publications and reprints of any significant publications, a letter of motivation, a short description of the previous research work, recommendation letters and contact information from two scientists for reference purposes. For further information see http://www.demogr.mpg.de. Applications should be sent by 1 October 2001 to:

Max Planck Institute for Demographic Research Att. Dr. Nadège MINOIS Doberaner Straße 114 D-18057 Rostock, Germany





CORNELL UNIVERSITY

AND WEILL MEDICAL COLLEGE OF CORNELL UNIVERSITY

Keck Program in Cellular and Molecular Biophysics of **Signal Transduction**

This newly established joint program between the two Cornell campuses (Ithaca, NY and New York City) funded by the W.M. Keck Foundation has openings for a number of postdoctoral fellows and Ph.D. students for research in cellular and molecular biophysics of signal transduction. The program emphasizes interdisciplinary research bridging physics, chemistry and biology as it relates to membrane dynamics, organization and signaling Participating faculty include:

Olaf Andersen	molecular physiology of ion channels
Barbara Baird	membrane structure in cell surface receptor function
Rick Cerione	molecular mechanisms of signal transduction
Jerry Feigenson	physical and chemical properties of biomembranes
Jack Freed	applications of ESR to the dynamic structure of membranes
Xin-Yun Huang	signaling by G Proteins
Manfred Lindau	mechanisms of exocytosis and endocytosis
Fred Maxfield	membrane traffic and cell motility
Tim McGraw	endocytic membrane trafficking
Diana Murray	computational analysis of subcellular targeting
Benoit Roux	computational studies of ion channels
Tim Ryan	biophysical and molecular dissection of synaptic machinery
Watt Webb	dynamics of basic biophysical processes
Hao Wu	structural studies of intracellular signaling
Research projects su	prorted by this program take place on both campuses

Research projects supported by this program take place on both campuses generally in collaboration between two or more of the research labs listed above. Additional materials and contact information for each of the above can be found at http://www.med.cornell.edu/keck/

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Postdoctoral Position In Sporadic Human **Ĝenetic Disease**

Immediate opportunity available at Cold Spring Harbor Laboratory's new Genome Center located in Woodbury. Our research focuses on the analysis of individuals with sporadic genetic disorders, not amenable to traditional methods of investigation, such as linkage analysis. Our current approach is to perfect methods of detecting subtle copy number variations in whole genome samples, using large clone arrays (i.e., BAC arrays). This approach has recently been successful in identifying a de novo microdeletion in a patient with a well categorised syndrome. We are continuing to investigate this lesion in the index patient and study others with the same syndrome in order to ascertain the frequency of this deletion in that population. It is expected that the successful candidate will be highly motivated by the study of human genetics. Experience in the field of human molecular genetics is preferable but not a sine qua non. Please send CV and names/addresses of 3 referees. Contact: Dr. Eli Hatchwell,

Cold Spring Harbor Laboratory

1 Bungtown Road, Cold Spring Harbor, NY 11724. Phone 516-367-8382 E-mail eli@cshl.org Visit our web site: www.cshl.edu Equal Opportunity Employer

POSTDOCTORAL RESEARCH SCIENTIST

Givaudan, a recognized world leader in the development and manufacture of flavors for the food and beverage industry, is seeking a Postdoctoral Research Scientist for its Cincinnati facility. Major responsibilities will include conducting basic research utilizing modern molecular biology and biochemistry to elucidate the mechanisms of gustation and to gain practical insight into flavor modulation and chemesthetic response.

The successful candidate will possess a PhD in molecular biology, biochemistry or pharmacology with a strong background in molecular biological techniques including cDNA cloning, DNA sequencing, PCR, transgene expression in mammalian cells, detection of protein expression, and generation of stable expression systems. Familiarity with G-protein-dependent signal transduction and receptor-ligand interactions is essential, while experience in the area of taste and olfaction is desirable. Experience in development and execution of phenotypic cell-based assays is also desirable. A proven track record demonstrating comprehensive knowledge and experience with the relevant technologies is expected. Familiarity with bioinformatics and high-throughput screening systems is a plus. Candidates must be committed to working within a collaborative team environment and must have good communication and presentations skills.

We offer a very attractive compensation and benefits package. Send resume and cover letter to Human Resources. 1199 Edison Drive, Cincinnati, OH 45216. Email: cincinnati.humanresources@givaudan.com.

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THE J. DAVID GLADSTONE INSTITUTES UNIVERSITY OF CALIFORNIA SAN FRANCISCO

POSTDOCTORAL OPPORTUNITIES

Postdoctoral Fellowship in the laboratory of Dr. Bruce Conklin requiring an interest and experience in biology and computers. Projects include DNA array studies, interpretation and development of publicly available computer program for DNA array analysis. Job #C00-37W

Postdoctoral Fellowship in the laboratory of Dr. Fen-Biao Gao to study dendritic morphogenesis in development and neurological disorders, using fruitfly Drosophila as a genetic model system. Candidates should have a background in neurobiology, molecular genetics, or developmental biology. Job #N01-06W

Postdoctoral Fellowship in the laboratory of Dr. Mike McCune to study HIV pathogenesis, with particular emphasis on effects on the hematolymphoid system. Candidates should have a background in hematology or immunology, preferably with experience in flow cytometry, cell culture, and assays of hematopoietic function. Job #V00-09W

Postdoctoral Fellowship in the laboratory of Dr. Douglas Nixon to study HIV pathogenesis, with particular emphasis on cellular immune responses. Candidates should have a background in virology or immunology, preferably with experience in flow cytometry, cell culture, and assays of immunological function. Job # V00-19W.

Postdoctoral Fellowship in the laboratory of Dr. Robert Pitas to study mechanisms by which the apoE isoforms exert differential effects on lipid metabolism and on the development of neurological and cardiovascular disease. Experience in cell culture and lipid analysis a plus. Job #C01-08W

Postdoctoral Fellowship in the laboratory of Dr. Tony Wyss-Coray to research the molecular basis of neurodegeneration with an emphasis on Alzheimer's disease and cerebrovascular abnormalities. Specifically, we aim to manipulate key signaling pathways in vivo to study the role of injury and inflammation in models of neurodegeneration and neuroprotection. Candidates should have experience with molecular biology and neuroscience. Job # N01-05W

Postdoctoral Fellowship in the laboratory of Dr. Yadong Huang to study the role of apolipoprotein E in lipid metabolism and in neurodegenerative disorders with an emphasis on Alzheimer's disease. Projects feature use of both transgenic and knockout mice. Experience in molecular biology and lipid metabolism or neuroscience is required. Job # C01-07W

We offer an exceptional trianing program for postdoctoral fellows, including rigorous scientific training, personalized attention and mentoring, and a rich research environment to allow our fellows to develop to the fullest of their abilities. In addition, we offer excellent benefits, including three weeks of vacation, employer-paid medical programs, tuition reimbursement, and various retirement programs.

All positions require a Ph.D., M.D., or both. Please send cover letter indicating job number along with CV and references to:

The J. David Gladstone Institutes John LeViathan - Human Resources P.O. Box 419100 San Francisco, CA 94141

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email: postdoc@gladstone.ucsf.edu web: http://gladstone.ucsf.edu/hr/

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BIG Ideas Shaping the Future Postdoctoral Research Opportunities

Lawrence Livermore National Laboratory (LLNL) has opportunities for Postdoctoral positions within its five University/Lab Institutes: the Center for Accelerator Mass Spectrometry, the Institute of Geophysics and Planetary Physics, the Institute for Laser Science and Applications, the Institute for Scientific Computing Research, and the Materials Research Institute. In these positions, postdocs will work on projects that advance science and technology by conducting cutting edge, publishable research to meet needs identified by one of LLNL's National Security Directorates. These are one-year term appointments, with the possibility of extensions to three years.

Candidates will do original research in one or more aspects of science that include: Physics, Computational Mathematics, Computer Science, Chemistry, Material Science, Laser Science, Astrophysics and Engineering. You may participate in experimental or theoretical work, and will have access to our extensive computing facilities, specialized laboratory facilities, and field equipment. It is anticipated that at the end of a successful appointment, candidates will be well positioned to apply for career positions within the sponsoring Directorate.

Refer to our web page http://www.llnl.gov/urp/ppi/ for eligibility requirements, information on the Institutes and examples of research projects. To apply reference **Dept. AJSC981DO** and send a cover letter expressing your area of interest and resume to urpipdsc@llnl.gov. U.S. Citizenship and the ability to obtain a Department of Energy clearance is required. Permanent residency does not meet this requirement. Applications will be accepted throughout the year until positions are filled. Lawrence Livermore National Laboratory is operated by the University of California for the National Nuclear Security Administration/ Department of Energy. We are proud to be an equal opportunity employer with a commitment to workforce diversity.

University of California Lawrence Livermore National Laboratory Science in the National Interest



For information about specific employment opportunities, visit our web site at:

www.llnl.gov/jobs

DISTINGUISHED FELLOWSHIP

Lawrence Livermore Postdoctoral Fellowship

The Lawrence Livermore National Laboratory (LLNL) has openings available under its Postdoctoral Fellowship Program. This is a highly desirable, prestigious position with ample resources and freedom to conduct cutting-edge research in the fields of the candidate's choice. Duration for the Fellowship is up to three years. Typically two openings are available each year. Fellowships are awarded only to candidates with exceptional talent, credentials, and a track record of research accomplishments.

Candidates will do original research in one or more aspects of science relevant to the mission and goals of LLNL which include: Physics, Computational Mathematics, Computer Science, Chemistry, Material Science, Engineering, Environmental Research, Atmospheric Science, Geological Sciences, Energy, Laser Science, and Biological Science. Successful candidates may participate in experimental or theoretical work at LLNL, and will have access to LLNL's extensive computing facilities, specialized laboratory facilities, and field equipment. A senior scientist will serve as a mentor to each of the Fellows. The candidates will receive full management and administrative support. The salary is \$6917/mo.

Please refer to our web page http://www.llnl.gov/urp/LLNLPostDoc/LLNLPostDoc.htm for eligibility requirements and application information. Please reference source code **AJSC971DO**. The deadline for application is November 1, 2001. No applications will be accepted after this date. LLNL is operated by the University of California for the National Nuclear Security Administration/ Department of Energy. We are an Equal Opportunity Employer with a commitment to workforce diversity.



For information about other employment opportunities, visit our website:

www.llnl.gov/jobs



MAYO CLINIC POSTDOCTORAL FELLOWSHIP

Positions are available to investigate the interrelationship between TGF-B receptor signaling and endocytic activity in mesenchymal and epithelial cell models. Specific projects will characterize the subcellular location, role of the endocytic machinery, cisacting receptor elements, and cytoskeleton in TGF-B receptor trafficking and proliferative control.

Positions are available immediately. If interested, please send curriculum vitae and names of three references to:

Edward Leof, PhD Mayo Clinic Stabile 858 200 1⁴. St SW Rochester, MN 55905 Phone: 507/284-5717 Fax: 507/284-4521 E-mail: leof.edward@mayo.edu see also: http://www.mayo.edu/ research/

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

Postdoctoral Fellow and Research Associate Applied Physics

Suitable positions for biophysical chemist, photophysicist, photochemist and/or molecular biophysicist, preferably with ultrafast optics experience for these programs: Ultraviolet photophysics and photochemistry of DNA, proteins and their binding interac-tions in vitro and in vivo as multiphoton excited by amplified femtosecond lasers Correlation spectroscopy of chemical and physical dynamics of molecular aggregation in neurodegenerative disease. Photophysics of intrinsic tissue fluorescence and harmonic generation induced by femtosecond multiphoton excitation for laser nonlinear microscopy and in vivo fluorescence correlation spectroscopy. Single molecule chemical dynamics and quantum dot optics in optical nanoscopic structures and nanometer resolutions for nanobiotechnology.

To apply, send curriculum vitae, a letter indicating your career interests, and letters of recommendation to:



Professor Watt W. Webb Applied Physics, 223 Clark Hall, Cornell University Ithaca NY 14853-2501 FAX 607-255-7658 E-mail www2@cornell.edu

Cornell University is an Equal Opportunity/Affirmative Action Employer/Educator and strongly welcomes nominations of, and applications from, women and underrepresented minorities.

http://www.cornell.edu http://chronicle.com/jobs/profiles/002711.htm



The Wistar Institute, an independent research organization located on the University of Pennsylvania campus, currently seeks postdoctoral applicants in the areas listed below. These are fulltime, year-round opportunities.

Regulation of Epstein-Barr Virus Latency: Immortalization of human B-lymphocytes by EBV depends on the establishment of a stable extrachromosomal replicon that maintains a stable copy number and strict pattern of gene expression. We are studying the viral and cellular proteins that regulate the chromatin structure, cell-cycle dependent replication, DNA damage checkpoint response, and plasmid maintenance of EBV minichromosomes. In a separate project, we are studying how B-lymphocyte growth signals regulate the switch from latent to lytic gene expression of the viral minichromosome. Reply to Dr. Paul Lieberman (lieberman@wistar.upenn.edu).

Human Telomere Structure, Variation, and Evolution: Two positions are available, one focuses on gap-filling and completion of the human reference sequence in subtelomeric regions, including detection and analysis of subtelomeric transcripts and gene families. The second analyzes large subtelomeric segmental duplications and polymorphism near human telomeres, and their relation to linkage disequilibrium patterns and subtelomeric gene expression. Reply to Dr. Harold Riethman.

Cell Cycle Checkpoints: Position to study cell cycle checkpoint genes, such as Chfr, which regulates progress through prophase (Nature 406:430-435, 2000), or Chk2, ATM and 53BP1, which regulates the response of cells to DNA damage (Genes Dev. 14:278-88, 2000; J. Cell Biol. 151:1381-90, 2000). Reply to **Dr. Thanos Halazonetis.**

Molecular Genetics of Transcription Regulation in Drosophila: Our main interest is to understand the molecular mechanisms of how chromatin insulator and anti-insulator elements (Promoter-Targeting Sequence, PTS, see Cell 99:567-575, 1999) function to regulate long-range enhancer-promoter interactions. We are also interested in the in vivo functions of chromatin remodeling/modifying complexes that lead to the activation or repression of transcription. Recent Ph.D. and experience in biochemistry and molecular biology preferred. Reply to Dr. Jumin Zhou (zhouj@wistar.upenn.edu).

(Zhouje wista: uprimera). Chromatin Regulation in S. cerevisiae, Mammals and Herpes Simplex Virus: Genetic and biochemical approaches are used to study histone modifications during gene activation and viral reactivation, including both acetylation and phosphorylation. Current studies also include the role of acetylation of p53 in p53mediated gene activation. Recent publications include: Lo et al. Science 293:1142-6, 2001; Berger. Science 292:64-65, 2001; Lo et al. Molecular Cell 5:917-926, 2000. Reply to Dr. Shelley L. Berger.

Crystallographic Studies of Macromolecular Assemblies. Structural Biology: Positions are available to apply biochemical and x-ray crystallographic techniques to study macromolecular assemblies associated with gene regulation and cancer. Prior experience in xray crystallography and/or biochemistry is preferred. Interested applicants are encouraged to with the bit was the at

visit the lab Web site at www.wistar.upenn.edu/Marmorstein. Reply to Dr. Ronen Marmorstein.

Successful candidates will have a Ph.D. and/or M.D./Ph.D. in the biological sciences. Please send a CV and three letters of reference to the **Human Resources Dept.**, **Attn:** (appropriate faculty **member**), **The Wistar Institute**, 3601 **Spruce Street**, **Philadelphia**, **PA 19104**. For more information about The Wistar Institute, visit our Web site at www.wistar.upenn.edu.

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POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS IN MOLECULAR IMAGING

Our laboratories have developed technologies to non-invasively and repetitively monitor the location, magnitude and duration of reporter gene expression in living animals. We use reporter genes whose products can trap positron-labeled reporter probes, and image the reporter gene dependent sequestration of positron labeled probes by positron emission tomography. We have applied these techniques both to somatic gene transfer paradigms and to transgenic animals. Postdoctoral/research associate positions are available to apply this new technology to study (1) retargeting of viral gene delivery vectors, (2) the proliferation and spread of conditionally replicating adenoviruses as anti-cancer agents and (3) the transgenic expression of genes involved in both the inflammatory response and in tumor progression. Prior experience in molecular biology, virology, cell biology, tumor biology or molecular imaging is preferred.

A statement of interest, curriculum vitae and contact information for three references should be sent to:

Harvey Herschman 341 Boyer Hall UCLA 611 Charles E. Young Drive East Los Angeles CA 90095-1570 e-mail: hherschman@mednet.ucla.edu

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AMERICAN SOCIETY FOR MICROBIOLOGY AND NATIONAL CENTER FOR INFECTIOUS DISEASES

2002 POSTDOCTORAL RESEARCH ASSOCIATES PROGRAM

Up to ten associate positions will be awarded by the American Society for Microbiology for full-time research on infectious diseases which cause significant public health problems. Associates will perform research in residence at the National Center for Infectious Diseases (NCID) which is headquartered at the Centers for Disease Control and Prevention (CDC) in Atlanta, GA. In addition to Atlanta, NCID operates laboratories in Ft. Collins, CO, Anchorage, AK, and San Juan, Puerto Rico.

Eligible fields of study include:

Bacterial and Mycotic Diseases Viral and Rickettsial Infections Nosocomial Infections HIV/AIDS Vector-borne Infectious Diseases Sexually Transmitted Diseases Parasitic Diseases

The associate positions are limited to individuals who either earned their doctorate degree (Ph.D., Sc.D., M.D., D.V.M., or D.D.S.) or have completed a primary residency within three years of their proposed start dates. Consideration will be given to individuals with more experience if there are compelling reasons for doing so, such as postgraduate subspecialty training or national service. Qualified applicants will receive consideration without regard to race, creed, color, age, sex, or national origin. Diversity among associates is encouraged. The program provides an annual stipend of \$30,800, health care benefits package and up to \$4,000 for professional development for two years.

The application deadline is November 15, 2001. The Postdoctoral Research Program is administered by the American Society for Microbiology. For more information, visit ASM's home page at http://www.asmusa.org/edusrc/edu23e.htm or e-mail: Fellowships-CareerInformation@asmusa.org. The brochure and application are available on line.



CDC/NCID

CENTERS FOR DISEASE CONTROL AND PREVENTION NATIONAL CENTER FOR INFECTIOUS DISEASES

Predoctoral, Postdoctoral, and Clinical Fellowships

The Lombardi Cancer Center at Georgetown University is recruiting for predoctoral, postdoctoral, and clinical fellows positions funded by grants from National Institutes of Health and Department of Defense. The goals of these programs are to develop basic scientists capable of moving research findings into settings with patients and populations. Successful applicants will choose a mentor from an interdisciplinary group of investigators who are committed to cancer research with a special emphasis on breast cancer. Research programs include the development of novel anticancer therapies, the genetic and molecular mechanisms of malignant progression, the role of growth factor signal pathways, invasion and metastasis, the development of hormone and drug insensitivity, the etiology of cancer, biomarkers, and molecular epidemiology. Salary is competitive and commensurate with qualifications and experience. Minorities and women are strongly encouraged to apply.

Predoctoral candidates should contact: Predoctoral Training Program c/o Anna Riegel, PhD

c/o Anna Riegel, PhD W307, Lombardi Cancer Center Research Building 3970 Reservoir Road, NW Washington, DC 20007-2197

The LCC has received funding directed to supporting minority postdoctoral researchers. Postdoctoral and Clinical Fellows should send a curriculum vitae, a short statement of research interests and career goals, and the names and addresses of three references to either:

Breast Cancer Postdoctoral Training Program c/o Helen Bishop, PhD

Clinical Oncology Research Career Development Program c/o Kevin Cullen, MD

> W503, Lombardi Cancer Center Research Building 3970 Reservoir Road, NW Washington, DC 20007-2197

For more information, please visit the Lombardi website at Lombardi.Georgetown.edu.

Program in Tissue Remodeling and Cancer Center for Cell Biology and Cancer Research Albany Medical College

The Center for Cell Biology and Cancer Research seeks applicants for its postdoctoral research training program in Tissue Remodeling and Cancer. This program focuses on the roles of extracellular matrix proteins, integrins, growth factors and cytokines in regulating cell functions important to wound healing and tumor progression. The Center has undergone an expansion that includes the addition of new faculty and the establishment of well-equipped facilities for conducting molecular and cellular biology. Faculty are actively involved in the training of postdocs and graduate students and in the research activities in their laboratories. Center faculty collaborate with investigators in the Albany area, including the Wadsorth Center, SUNY-Albany, and RPI, as well as with researchers in Boston, MA and New York City (both ~ 3hr by car). Albany is located in the scenic Hudson River Valley, offering affordable housing, easy commutes and quick access to cultural (e.g., Saratoga Springs and Tanglewood Performing Ars Centers), and outdoor activities (Adirondack and Catskill State Parks). Excellent financial compensation and benefits are provided.

Andrew Aplin	Adhesion control of signaling to the nucleus	
Mike DiPersio	Integrin modulation of metalloprotease activity	
Paul Higgins	Regulation of gene expression by TGF-beta/EGF and matrix receptors	
John Jeffrey	Cytokine control of interstitial collagenase expression	
Susan LaFlamme	Integrin signaling in cell adhesion and migration	
Gang Liu	mRNA localization and cytoskeleton dynamics	
Paula McKeown-Longo	Fibronectin polymerization in tumor angiogenesis	
Kevin Pumiglia	VEGF signal transduction and anti-angiogenic gene therapy	
Livingston Van De Water	Fibronectin variant function in wound repair	
Applicants should submit a curriculum vitae and the names of three references to individual faculty members or to: Paula J. McKeown-Longo, Ph.D. ,		

The Albany Medical College is an Equal Opportunity,

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When curiosity is developed to its full potential, great discoveries are made. At Pharmacia Corporation, we invest \$2+ billion a year in R&D with major activities focused in the areas of arthritis/inflammation, cancer, infectious diseases, cardiovascular and metabolic diseases, and disorders of the central nervous system. Exciting opportunities now exist for innovative, forward-thinking postdoctoral researchers to join our team in **Kalamazoo, Michigan.**

The following opportunities are contract positions, engaged through Quantum Resources, a third-party employer. Selected candidates will work at our Kalamazoo facility under the supervision of Pharmacia scientists. The appointments are for 2 years with an annual stipend of \$40,000 plus benefits, including healthcare, moving expenses, etc. Support for attendance at scientific conferences is also provided.

POSTDOCTORAL RESEARCH ASSOCIATES Exploratory Biostatistics

We are seeking a highly motivated individual for a biostatistical research position in the area of data exploration/visualization as applied to global gene expression profiling and high-throughput screening analyses. You'll also collaborate closely with the Discovery, Experimental Medicine-Statistics/Informatics, and Research Biostatistics groups on research projects and data. The successful candidate will have a sound background in statistics, the ability to develop novel analytical methodology or exploration approaches, and experience managing, manipulating and mining very large datasets. Good communication and computer skills are essential. Experience with array/screening technologies or pharmaceutical research is highly desirable.

Chemical Informatics

The Computer-Aided Drug Discovery (CADD) group has a postdoctoral opening for research in chemical informatics that will focus on the development of statistically based "stopping rules" for high-throughput screening (HTS) and other related topics. The work will be carried out in close collaboration with scientists in the HTS group. CADD is a multi-disciplinary group of more than twenty scientists carrying out research in chemical informatics, bioinformatics and molecular modeling. The candidate should have a PhD in Chemistry, Biology, Computer Science, Statistics or related field and a strong background in computing. Good communication skills are highly desirable.

Biochemistry/Chemistry

We are looking for a highly motivated individual to join our Research Enzymology group to conduct enzyme mechanism studies with emphasis on viral polymerases. A PhD in Chemistry or Biochemistry with extensive training in protein biochemistry and enzyme kinetics is required. A background in transient-state kinetics and experience with quenchflow and stopped-flow techniques are preferred.

Curious? Discover your potential with Pharmacia. For confidential consideration, please send your resume, indicating the position of your interest, to: **Beryl Galer, Quantum Resources, 8191 Moorsbridge Road, Suite G, Kalamazoo, MI 49024. Email:** bgaler@quantum-res.com. For more information and other opportunities, please visit our website at www.pharmacia.com. EEO/AA





The University of Michigan School of Medicine, Department of Urology has been awarded a National Institutes of Health Training Grant in the Urologic Sciences. The following mentors are part of this program:

Kenneth J. Pienta, M.D. Understanding the mechanisms underlying prostate cancer metastasis

Alfred E. Chang, M.D. The development of adoptive immunotherapy strategies for the treatment of renal cell cancer

Michael F. Clarke, M.D. The genetic control of apoptosis

Kathleen A. Cooney, M.D. The molecular genetics of sporadic and familial prostate cancer

Mark L. Day, Ph.D. Mechanisms of apoptotic signal transduction

Jack Dixon, Ph.D. Mechanisms of phosphatase signal transduction

Eric Fearon, M.D., Ph.D. Genetic aberrations in bladder cancer and the development of diagnostic markers for bladder cancer

Paul Hollenberg, Ph.D. The control of P450 enzymes in health and disease

Michael Imperiale, Ph.D. The role of BK virus, in the etiology of prostate cancer

Evan Keller, D.V.M., Ph.D.

The role of cytokines and androgen receptor activity in the development of androgen-independent prostate cancer and the biology of prostate cancer bone metastases

Michael Long, Ph.D. Understanding the mechanisms underlying the acquisition of the aneuploid phenotype

Jill A. Macoska, Ph.D. The role of Chromosome 8 alterations in prostate tumorigenesis

Gabriel Nunez, M.D. Genetics and biochemistry of apoptosis

Dana Ohl, M.D. Understanding the basis of male infertility

John Park, M.D.

The role of bladder and renal prostaglandin synthesis regulation via cyclooxygenase pathways in the setting of bladder obstruction, inflammation and development

Diane Robins, Ph.D. Molecular control of the androgen receptor

Mark Rubin, M.D. Identification of biomarkers for prostate carcinoma

Martin Sanda, M.D. Development of gene therapy strategies for prostate and bladder cancer

David Schottenfeld, M.D. Epidemiology of prostate cancer

Jeremy Taylor, Ph.D. Development of statistical methodology

Stuart Wolf, M.D. Development of novel tissue reconstruction strategies for the urinary tract

Ph.D. and M.D. postdoctoral candidates (who are citizens or resident aliens of the USA) interested in pursuing a career in academic urology should send a cover letter and C.V. to the attention of: Alison Joncheray, Dept of Urology, University of Michigan, 1500 E. Medical Center Drive, Ann Arbor, MI 48109-0330.

Positions available immediately

Pharmaceutical

Explore all the possibilities that leading edge science offers.

G laxoSmithKline's global Discovery Research Biology group is at the forefront of the pharmaceutical industry's efforts to derive a small molecule ligand for every potential drug target. In order to achieve this goal, we are systematically exploiting classes of target proteins that provide the greatest chance of drug discovery success. We also are investigating potential protein therapeutic agents discovered through genomics. We are looking for entrepreneurially-minded scientists who relish the challenge of unraveling the genome's secrets and applying that knowledge to the development of medicines for the treatment of human disease, within High Throughput Biology, a core area of our Discovery Research Biology. We currently have opportunities available in our state-of-the-art facility, located in suburban Philadelphia, PA.

Platform Phenotypic Cellular Assays

In the Cell Physiology Section you will strive to develop an understanding of disease-relevant biology associated with early stage drug candidates. You will contribute to the design, development, and Implementation of platform cellular assays for profiling novel compounds and proteins, in addition to implementing automation technologies for increasing assay efficiency and throughput. You will also develop systems of analyzing and interpreting large quantities of data. All scientists will plan, execute, and analyze multiple experiments and effectively manage long-term research goals independently. Expertise in cell biology, mammalian cell culture, cell-based assays, and/or fluorescence microscopy and image analysis techniques are highly desirable.

Investigator/Sr. Investigator

A Ph.D. and 2+ years of relevant post-doctoral research experience in biological sciences is necessary (or equivalent practical experience). (Job Code 01-0664)

Associate Scientist/Scientist/Sr. Scientist/Associate Investigator The successful candidate will possess a BA, BS or MS in biological sciences with at least 1 year of relevant experience. (Job Code: 01-0665)

Gene Expression Assays to Evaluate Protein Agents

You will perform quantitative analysis of gene expression at the RNA and protein level in tissues obtained from animal disease models using moderate/high throughput technologies such as quantitative RT-PCR, ELISA's, and multiplexed analyte methods. You will train and supervise junior staff to carry out expression analyses, identify new research directions, establish collaborations with other teams/departments, and use the best available bioinformatics tools for data handling and analysis. In addition, you will implement automation technologies where appropriate to enhance efficiency and throughput, and effectively communicate results at meetings.

Investigator

A Ph.D. in a biological science with one or more years of post-doctoral experience, or BS/MS with equivalent practical experience is necessary. (Job Code: 01-1417)

In vivo Evaluations

Sound judgement and leadership will be required for you to establish and manage *in vivo* pharmacological/physiological evaluations and measurements, as well as establish and identify new *in vivo* screens related to disease. You will assume an increased leadership role in the study of genetically modified rodents and build multi-disciplinary research collaborations. A degree in physiology, pharmacology or the neurosciences, and backgrounds in the effects of drugs on the Central and Peripheral Nervous Systems, and in Metabolism and Oncology are needed. Your expertise with biochemistry, blood flow methodology/ electrophysiological techniques, fluoroscopy, microPET, microCT, MRI and/or ultrasound is highly desired.

Investigator/Sr. Investigator

A Ph.D. and 2+ years of relevant post-doctoral research experience in biological sciences is necessary (or equivalent practical experience). (Job Code: 01-0716)

Associate Scientist/Scientist/Sr. Scientist/Associate Investigator The successful candidate will possess a BA, BS or MS in biological sciences with at least 1 year of relevant experience. (Job Code: 01-0717)

For a complete listing of opportunities please visit our Web site: www.gsk.com

GlaxoSmithKline is dedicated to an innovative workplace and supports you with career long opportunities and learning. We offer a competitive benefits and compensation package designed to attract and retain the very best. For confidential consideration and efficient processing, please visit our Web site: www.gsk.com Indicating Job Code is essential to search. Principals only, no agencies please.

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Postdoctoral Training Opportunities in Cancer Immunology

The Dana-Farber Cancer Institute seeks to fill postdoctoral training positions for research iin the area of cancer immunology. U.S. citizens and permanent residents are invited to apply for positions in the Post-Doctoral Training Program in Cancer Immunology. Background and/or experience in the biochemical, genetic and cellular techniques involved in murine T-cell research is preferred. M.D., Ph.D. and M.D./ Ph.D. candidates must commit to a minimum two-year training period. A joint appointment will be held in an appropriate department of the Harvard Medical School.

Please forward a CV to:

Harvey Cantor, Director Dana-Farber Cancer Institute 44 Binney Street, Sm 722 Boston, MA 02115

Or to: Alison_Angel@dfci.harvard.edu

DFCI is an Equal Opportunity Employer. Women and minorities are encouraged to apply.





Postdoctoral Training Opportunities in

AIDS Research

The Dana-Farber Cancer Institute seeks to fill postdoctoral training positions in the area of AIDS-related research. U.S. citizens and permanent residents are invited to apply for positions in the Post-Doctoral Training Program in AIDS Research. Background and/or experience in the virology, biochemistry, genetics and cellular/molecular biology is preferred. M.D., Ph.D. and M.D./Ph.D. candidates must commit to a minimum two-year training period. A joint appointment will be held in an appropriate department of the Harvard Medical School.

Please forward a CV to:

Harvey Cantor, Director Dana-Farber Cancer Institute 44 Binney Street, Sm 722 Boston, MA 02115

Or to: Alison_Angel@dfci.harvard.edu

DFCI is an Equal Opportunity Employer. Women and minorities are encouraged to apply.



POSTDOCTORAL Fellowship

Research Associate

Rush-Presbyterian-St. Luke's Medical Center, located in Chicago, has an immediate opening in a cartilage cell biology laboratory that is part of an outstanding cartilage and osteoarthritis research group. Current research focuses on mechanisms by which integrin signaling regulate chondrocyte function. This position requires training in molecular biology and experience with cell culture. Background in integrins, MMPs or cell-signaling studies preferred.

Interested candidates please send CV and 3 letters of reference to: Dr. Richard F. Loeser, Rheumatology, Rush Medical College of Rush-Presbyterian-St. Luke's Medical Center, Job Code: GL-36324, 1725 W. Harrison, Suite 1017, Chicago, IL 60612. Fax: (312) 942-3053. Email: rloeser@rush.edu EOE M/F/D/V

Rush-Presbyterian-St. Luke's Medical Center

GENETICA

Staff Scientists, Ph.D. Postdoctoral Fellows

Genetica, a start-up biotech company located in the heart of Cambridge, is hiring staff scientists and postdoctoral fellows. Genetica has developed proprietary technology that enables the discovery of genes by function-based, phenotypic selection (see Hannon et al., Science 283:1129-1130 and www.genetica.cc). We are seeking an enthusiastic scientist to lead a group whose mission is to develop innovative screens for genes that stimulate reverse cholesterol transport, a process that elevates serum levels of good" cholesterol. We are seeking an imaginative group leader to develop new technologies that further facilitate function-based screening in mammalian systems. This individual will also develop cell-based assays that target disease states, such as diabetes, inflammation, obesity, or Alzheimer's disease, for intervention. Finally, Genetica is seeking a group leader to exploit RNAi to knock-out genes in mammalian cells. Genetica is a leader in the investigation of the mechanism of RNAi function (Science. 2001 Aug 10;293(5532):1146-50, Nature. 2000 Mar 16;404(6775):293-6; Nat Rev Genet. 2001 Feb;2(2):110-9, Review).

Mail or fax CV to Amy Dixon, Genetica Inc., One Kendall Sq., Bldg 600, Cambridge MA 02139; FAX 617-679-0666



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SENIOR RESEARCH SCIENTISTS

Molecular Biology/Gene Expression Profiling Cellular Oncology Pharmacology - Cancer Research Biochemistry Protein Biochemistry Enzymology - Obesity Research Synthetic Organic Chemistry

SENIOR ASSOCIATE SCIENTISTS

In Vivo Cancer Research - Tumor Progression High-Throughput Screening - Assay Development Synthetic Organic Chemistry Protein Biochemistry

Bayer Corporation encourages employees to work with passion, enthusiasm and commitment. In return, we offer a dynamic work-life balance program, 100% tuition reimbursement, competitive salaries and comprehensive benefits that take effect on day one. **Resumes should be sent, including SOURCE CODE: ASM0901, to: Bayer Corporation, Pharmaceutical Division, P.O. Box 3238, Scranton, PA 18505-0238. Fax: 1-888-805-7474. E-mail: bayerpharma@alexus.com E-mailed resumes should be attached as a Word or Text file for faster processing and**

contain the Source Code in the subject line. Candidates are encouraged to visit our web site for additional information on these and other opportunities at Bayer. No agencies or phone calls please.

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Scientist, Natural Products Microbiology

- Perform activities associated with the genetic manipulation of secondary metabolic pathways and with the fermentation of actinomycetes, eubacteria and fungi
- BS in Biology or Microbiology with 5 years of experience or MS with 2 years of pharmaceutical experience
- · Proficiency in basic microbiology and molecular biology techniques

Postdoctoral, Oncology and Immunology Research

- Understand the mechanism-of-action of novel inhibitors of microtubules and growth factor receptors
- Experience preferred with radiolabelled and photoaffinity probes and characterization of resistant cell lines
- A Ph.D. with laboratory skills including one or more of the following: protein chemistry, pharmacology, enzymology, histopathology, genomic profiling, and/or molecular biology
- Familiarity with standard tissue culture methods for in vitro and in vivo experimentation

Research Scientist, Biology

- · Perform in vitro experiments to characterize the activity of candidate
- microtubule or kinase inhibitors in clinical development for oncology • Develop innovative model systems to distinguish the activity of such inhibitors from previously known agents and apply these systems to
- in vivo experimentation • Expertise in cell based-assay development and gene expression profiling methods, including hands-on experience with DNA microarrays and bioinformatics analysis software
- MS in Biology with 8 years of relevant experience or a BS in Biology with 10 years of relevant experience

Postdoctoral, Natural Products Microbiology

- Undertake studies to elucidate the genetic mechanisms regulating the production of a novel secondary metabolite by an actinomycete
- Recent Ph.D. in Microbiology, Molecular Biology or related fields with a
- strong background in microbiological techniques
- Knowledge and experience in secondary metabolism and/or metabolic regulation in prokaryotes
- Actinomycete experience preferred

The collective skills of 40,000 of the world's top talent keep us on the cutting edge. We care for our people by offering rich avenues for advancement, challenging opportunities, generous compensation, stock options, childcare subsidies, education assistance, flexible schedules and other great benefits. For consideration, please forward your resume and salary requirements to: Wyeth Pharmaceuticals, Attn: S. Avery, 401 N. Middletown Road, Pearl River, NY 10965. Fax: 845-602-5375. E-mail: averys@war.wyeth.com No phone calls. Principals only. Equal Opportunity Employer M/F/D/V



2 BAYLOR RESEARCH INSTITUTE

INVESTIGATOR IN TRANSPLANT BIOLOGY-IMMUNOLOGY

The Baylor Institute for Immunology Research (BIIR) is dedicated to the study of the human immune system. The research program is housed in a 44,000 sq. ft. facility which opened in the fall of 1998. It is located within the campus of Baylor University Medical Center in Dallas, Texas.

Currently, applications are being accepted for a transplant immunologist who will serve as Deputy Director for BIIR. The candidate should be experienced in either *in vivo* animal transplantation, cellular and molecular basis of immune rejection tolerance, and/or xenotransplantation. The candidate is expected to demonstrate a strong interest in the development of human organ transplantation, ideally using dendritic cells able to induce tolerance, as well as interact with the transplantation physicians to improve the quality of their clinical and experimental research.

We are seeking a transplant immunologist who is highly motivated to understand human diseases and contribute to their cure. Successful candidates will have an M.D. and/or Ph.D. in the appropriate field, an outstanding publication record, a minimum of five years relevant research experience beyond the doctoral degree, and a demonstrated ability to obtain independent funding to complement their endowment funding.

Investigators are expected to lead teams comprising of up to 18 members (technicians, post-docs, students) based upon available funding. Core groups for image analysis, flow cytometry, tissue culture, nucleic acid sequencing, as well as an animal facility will be available to support the various laboratories. Investigators are expected to enjoy working as part of a team effort among the BIIR research staff and the Medical Center clinical staff.

Candidates should apply by submitting a curriculum vitae, a few selected publication reprints, names of three references, and a brief statement of research interests and goals, to: Dr. Marvin Stone, Chair, Search Committee for Transplant Research Immunologist, Baylor-Charles A. Sammons Cancer Center, 3500 Gaston Avenue, Dallas, Texas 75246, marvins@baylordallas.edu

Baylor Research Institute is an Affirmative Action Employer. Female and minority candidates are encouraged to apply.


Pharmaceutical

Explore all the possibilities that leading edge science offers.

Opportunities in Bioinformatics

G laxoSmithKline is home to the largest dedicated bioinformatics group with the longest traditions in the industry. We bring to bear more than 200 regular staff and contractors at six sites, including two near Philadelphia, PA, one in Research Triangle Park, NC, two near London, UK, and one in Geneva, Switzerland. Our work covers a full range of bioinformatics activities, from the engineering and support of large systems, to the development and application of novel methods, to the discovery and functional characterization of drug targets. As the central bioinformatics function for one of the largest and most diversified pharmaceutical companies in the world, we encompass an exceptionally broad set of technologies and application areas, and enjoy the excitement of seeing our contributions progress rapidly toward new products addressing human disease.

GlaxoSmithKline's Bioinformatics Division is currently seeking experienced and energetic staff members in the following areas:

Engineering: Java, C++, EJB, Perl, Oracle, Sybase, UNIX

Sciences: phylogenetic analysis, structural bioinformatics, mathematical biology, computational sciences, pathway analysis

Operations: project management, biological databases, UNIX systems administration, desktop tools

Genomics: microarrays and other transcriptome analysis methods, interaction and expression proteomics, comparative genomics

Genetics: high throughput genotyping, SNP analysis, association studies, clinical databases, pharmacogenetics

Discovery: *in silico* discovery, genome analysis, microbial genomes, data integration and knowledge management, decision support

GlaxoSmithKline is dedicated to an innovative workplace and supports you with career long opportunities and learning. We offer a competitive benefits and compensation package designed to attract and retain the very best. For confidential consideration and efficient processing, please visit our Web site: www.gsk.com for a full listing of opportunities. Please indicate Key Word: BIOINFORMATICS in the Job Title field. Principals only, no agencies please.

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THE UNIVERSITY OF HONG KONG



The University of Hong Kong is a leading international comprehensive research university in the Asia-Pacific region, with more than 100 teaching departments and sub-divisions of studies and learning, and more than 60 research institutes and centres. There is currently an enrolment of more than 17,000 students (6,500 at postgraduate level). Research students are from more than 48 countries. The medium of instruction is English. The University is committed to its vision of globalisation, together with excellence in scholarship and research.

Research Assistant Professorships and Post-doctoral Fellowships

Applications are invited for a number of positions as Research Assistant Professor (RAP) (Ref: RF-2001/2002-18) and Post-doctoral Fellow (PDF) (Ref: RF-2001/2002-19), tenable on or before 30 September 2002. Appointments will be made for a period of 2 to 3 years.

RAP and PDF posts are created by the University with the aim of injecting fresh impetus and vigour to the University's research enterprise, in order to complement and broaden its existing research expertise. Appointees are expected to bring in new research ideas and cutting-edge technologies.

Research Assistant Professors

The main focus of an RAP's duty is research. They can however be assigned teaching duties, up to 50% of the normal teaching load. Applicants should be research active and have a proven publication record. Appointments will be made usually on the first point of the 4-point salary scale HK\$43,060, HK\$46,190, HK\$49,280 and HK\$52,405 per month (under review) (approx. US\$5,520, US\$5,921, US\$6,317, US\$6,718; US\$ equivalents as at 17 August 2001). A (taxable) financial subsidy towards rented accommodation, leave, medical and dental benefits will be offered.

Post-doctoral Fellows

PDFs are expected to focus on research. Applicants should be PhD degree holders. Appointments will be made usually on the first point of the 4-point salary scale HK\$30,785, HK\$33,705, HK\$36,940 and HK\$40,500 per month (under review) (approx. US\$3.946, US\$4,320, US\$4,733, US\$5,192; US\$ equivalents as at 17 August 2001). Annual leave, medical and dental benefits will be provided.

Where posts are held

A full list of the research areas and the departments or academic units in which the posts are recruited will be shown on the University's homepage at http://www.hku.hk/apptunit.

Procedures

Interested applicants are strongly advised to contact, in the first instance and prior to making an application, the Head of the appropriate department or academic unit to ascertain the level of posts available and to obtain information about current research initiatives and activities.

Applicants must submit a completed University application form, which should clearly state which position they are applying for; and in which academic discipline. Applicants who are applying for both positions should fill in two sets of application forms. They should also provide further information such as details of their research experience, publications, research proposals, etc.

Further particulars and application forms can be obtained at http://www.hku.hk/apptunit; or from the Appointments Unit (Senior), Registry, The University of Hong Kong, Hong Kong (Fax (852) 2540 6735 or 2559 2058; E-mail: apptunit@reg.hku.hk). Closes 15 October 2001. Candidates who are not contacted within 3 months of the closing date may consider their applications unsuccessful.

> The University is an equal opportunity employer and enjoys a smoke-free environment

ASSISTANT EXERCISE BIOLOGIST

THE DIVISION OF BIOLOGICAL SCIENCES, UNIVERSITY OF CALIFORNIA, DAVIS, invites applications and nominations for a faculty position in exercise biology. This is a tenure-track position at the level of ASSISTANT PROFESSOR. The position will be in the Exercise Biology Program with a joint appointment in the Section of Neurobiology, Physiology & Behavior. A Ph.D. (or equivalent) and postdoctoral experience is required. Candidates must have an outstanding record of research achievement and will be expected to develop a strong independent research program in exercise biology. Particular attention will be afforded candidates who have an integrative perspective and employ mechanistic approaches to address important issues in exercise biology, such as skeletal muscle physiology/development, muscle adaptation to exercise or aging. The successful candidate will be expected to teach undergraduate and graduate level courses in exercise biology/exercise science and participate fully in the teaching and advising programs coordinated by the Divisions of Biological Sciences and Graduate Studies.

Applications should include: (1) curriculum vitae (with e-mail address), (2) statement of current and proposed research interests, (3) three relevant reprints, (4) statement of teaching experience/ interests, and (5) names, telephone numbers, and addresses (postal and e-mail) of at least three references. Candidates should also arrange to have their reference letters mailed directly to the Committee Chair. All materials should be sent to: Charles A. Fuller, Chair, Exercise Biology Search Committee, Exercise Biology Program, University of California, One Shields Avenue, Davis, CA 95616-8674. Closing date: open until filled, but all materials must be received by September 28, 2001 to be assured of full consideration.

The University of California, Davis, is an Affirmative Action/ Equal Opportunity Employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences.

Faculty Position The Schepens Eye Research Institute Harvard Medical School Molecular Biologist/Geneticist

The Schepens Eye Research Institute and the Harvard Department of Ophthalmology announce an opening on the faculty at the Assistant or Associate Scientist/Professor level for a molecular biologist/geneticist.

Successful candidate will be an Investigator with Ph.D. or M.D. who is devoted (or willing to become so) to using genetic/molecular approaches to study the normal eye and the mechanisms/pathogenesis of diseases related to the eye.

Range of scientific and technological expertise should include one or more of the following: regulation of gene expression; genetic models of ocular disease; signal transduction; apoptosis and cell aging; cell cycle and cell proliferation; cell survival and protection; stem cells and regeneration; argiogenesis and angiostasis; inflammation and autoimmunity; gene therapy; tissue differentiation.

The successful candidate will be expected to build an independent, externally supported research program and to participate in multi-disciplinary team approaches to complex biologic problems.

A solid record of productivity and publication is essential. In addition, the successful candidate is expected to be active in training of pre- and post-doctoral fellows, and to participate as a member of the Harvard Medical School faculty.

Important unsolved problems in vision research currently being pursued at the Institute include: ocular surface diseases, ranging from dry eye syndromes to corneal dystrophies; glaucoma; age-related retinal diseases, such as macular degeneration, and diabetic retinopathy; retinal transplantation; corneal reconstitution; controlling angiogenesis; ocular immune privilege and uveitis.

Applicants should send their *curriculum vitae* and statement of research interests, and the names of three references by November 15, 2001

J. Wayne Streilein, M.D. President, The Schepens Eye Research Institute Charles L. Schepens Professor of Ophthalmology, Harvard Medical School 20 Staniford Street Boston. MA 02114-2500

SERI and Harvard Medical School are Equal Opportunity/Affirmative Action Employers. Women and minorities are encouraged to apply.

Genomics at UNC-Chapel Hill The Carolina Center for Genome Sciences

Providing context, meaning and utility to the immense catalogs of sequence data is a challenge orders-of-magnitude more complex than previously faced. Yet, with these data, the potential for producing exciting bench-to-bedside-to-population based paradigms is limitless. To fuel discovery and to capitalize on these extraordinary opportunities during the post-genome functional biology era, the University of North Carolina at Chapel Hill has established the newly integrated, multi-disciplinary Carolina Center for Genome Sciences. Through the efforts of the Center and its member academic departments, 16 outstanding faculty were recruited last year (www.med.unc.edu/geneticsdept/employment_frame2.htm). The Center continues to expand its faculty recruitment in genomics in association with:

The College of Arts and Sciences, The School of Medicine and The School of Public Health

Bioinformatics: preference will be given to specialists in mathematical, statistical, and computer sciences. We are looking for scientists who bring modern tools of theory, modeling and computation to bear on critical aspects of biological information. We encourage applicants working at any level of biological organization, from biochemistry and genomics to systematics and evolution; and using any appropriate quantitative approach, including combinatorial analysis, data mining, and stochastic and geometric modeling. Depending on the topic, the primary appointment for this position will be in the Departments of Computer Science, Mathematics, Operations Research or Statistics and/or an appropriate Department in the School of Medicine.

Biomacromolecules: Candidates with active research programs that include combinatorial chemistry, capillary electrophoresis, structural (X-ray, AFM, NMR) studies of biomacromolecules, neurochemistry, realistic molecular dynamics of biomacromolecules, theory of enzyme reactivity or RNA/DNA catalysis are encouraged to apply. Candidates should have a research focus in Bioinformatics and desire appointment in an outstanding Chemistry department with much crossinteraction and a broad base of research.

Biological Chemistry: Priority will be given to candidates with interests, broadly defined, in the areas of proteomics, gene expression arrays, structural biology and the development and application of new chemical methods to the investigation of problems in genomics. Primary appointment will be in the Division of Biological Chemistry of the Department of Chemistry. Applications are strongly encouraged from candidates whose expertise will bridge the interface between chemistry and biology.

Behavioral Phenotyping: Preference will be given to candidates with expertise in mouse behavioral phenotyping. We are particularly interested in individuals with active research programs in neuroscience that focus on gene-behavior interactions. The appointment for this position will be in the Department of Psychology, and the successful candidate will also assume responsibility for the directorship of the Mouse Behavior Phenotyping Core of the interdisciplinary Neurodevelopmental Disabilities Research Center.

Cellular Imaging: Priority will be given to applicants whose research involves the use and development of sophisticated light microscopy techniques to study how protein complexes work as molecular machines in living cells and developing organisms. Primary appointment will be in the Department of Biology.

Human Genetics: We are specifically targeting candidates interested in common diseases, cancer genetics, structure/ function and genomic organization. Physician scientists are encouraged to apply. UNC-Chapel Hill has exceptionally strong programs in medical genetics, mouse genetics, and invertebrate genetics. The primary academic appointment will be in the Department of Genetics, with the possibility of joint appointments in relevant Clinical Departments.

Nutrition: We are seeking an individual with a doctorate in an appropriately related discipline and a track record in an area of research focused on the use of genomics to study questions pertinent to the field of nutrition (e.g., genomics and metabolism, genomics and nutrition epidemiology) to fill a tenure-track or tenured appointment in the Dept. of Nutrition beginning on or after July 1, 2002. Rank will be determined by the applicant's qualifications.

Statistical Genetics: We are seeking candidates with a strong background in both statistics and genetics. We are interested in persons who can develop and evaluate new statistical techniques, as well as assist in the analysis complex genetics data bases. The primary appointment will be in the Department of Biostatistics with the possibility of a joint appointment in the Department of Genetics or the reverse if appropriate.

Successful candidates will be expected to contribute to undergraduate, graduate or postgraduate teaching and to establish an externally funded research program. Review of applications will begin on October 15, 2001. Send curriculum vitae, a description of research interests, and four letters of reference to: Dr. Terry Magnuson, Director of The Carolina Center for Genome Sciences, CB 7000, Room 43 MacNider, University of North Carolina, Chapel Hill, NC 27599-7000. Please indicate the position of interest.

UNC is an Equal Opportunity/ADA Employer. Women and minorities are encouraged to apply.



SR. SCIENTIST BIOCHEMISTRY / MOLECULAR BIOLOGY Position in North Coastal San Diego County

Isis Pharmaceuticals, Inc., is a leading genomics-based drug discovery and development company that is focused on RNA. Our goal is to create important new drug discovery technology platforms that will improve the productivity of the pharmaceutical industry and will enable our discovery and development of important new drugs to treat disease and to improve the lives of patients. We have integrated our expertise to create two exciting technologies, antisense and Ibis Therapeutics, a robust pipeline of drugs in development and genomics services (GeneTrove[™]). We are currently seeking the following professional to join our team.

Functional Genomics department seeks PhD, with a minimum of 2 years post-doctoral training required. The successful candidate will lead a small team responsible for establishing, conducting and interpreting cell culture based assays to identify therapeutically relevant genes involved in regulating diabetes and obesity. Strong molecular and cellular biology skills are required, as well as experience and a thorough working knowledge of the signal transduction pathways regulated in these diseases. Experience with high through-put assays is also preferred.

Isis offers competitive salaries and excellent benefits. Please send resumes to: Isis Pharmaceuticals, HR Code 572-ND, 2292 Faraday Ave., Carlsbad, CA 92008; Fax: (760) 603-2700; E-mail: resume@isisph.com. Principals only. No phone calls, please. EOE.



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MEDICAL DIRECTOR/DIRECTOR FOR TECHNOLOGY DEVELOPMENT

Based in our Los Angeles, CA facility, this exciting position will have a dual-focus. As Medical Director, you will participate in clinical procedures and analyses, assure regulatory compliance, and evaluate the results of immunohistochemistry, flow cytometry and other testing modalities. For Technology Development, you will be responsible for creating the technology infrastructure needed to respond to the clinical queries of therapeutics developers, and will cultivate extensive business relationships with leaders in the Biotech/Pharmaceutical industry.

Our ideal applicant is a Board-Certified Pathologist with at least 5 years experience in a successful academic, Biotech or Pharmaceutical career. A Medical Degree is required, Ph.D. a plus.

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GLOBAL OPPORTUNITIES

THE INTERNATIONAL VACCINE INSTITUTE POSITION ANNOUNCEMENT Institute Deputy Director Laboratory Sciences

In anticipation of the completion of its state-of-the-art research headquarters building in late 2002, The International Vaccine Institute (http://www.ivi.int) is seeking an Institute Deputy Director to oversee the development and operations of the Institute's laboratory research activities, which will occupy approximately 90,000 sq feet of floor space in the headquarters facility. The laboratory programs will complement the Institute's ongoing epidemiologic and clinical research programs, which currently are being undertaken in 8 countries in Asia and Africa. The laboratory programs will include both basic and applied research, including vaccine process research. The Institute is non-profit and focused primarily on research and development of new and improved vaccines for use primarily in developing countries. The Institute's headquarters are in Seoul, Korea.

While it is expected that the incumbent will possess a broad view of the entire field of vaccine research, he or she should also be a recognized leader in one of the fields encompassed by the Institute's laboratory research program, including microbial genetics, immunology, and vaccine development. It is expected that the incumbent will continue to conduct a program of independently-funded research in his or her areas of interest, while maintaining overall responsibility for the Institute's laboratory research program. The incumbent should also possess clear strengths in program-building, resource mobilization, and in staff development. Minimum qualifications include a doctorate degree in a relevant discipline, and significant experience in leading multiperson laboratory efforts in a research environment

Salary will be internationally competitive. The Institute provides appropriate fringe benefits including a housing allowance, home leave, and income tax reimbursement.

The International Vaccine Institute is an independent international organization established under the Vienna Convention of 1969. It is governed by a Board of Trustees the majority of whom are elected based on their personal achievements and positions in the vaccine field. The institute has scientific collaborations in 14 countries and with WHO.

Applications along with a current curriculum vitae and three references should be addressed to:

Mr. Hongki Jong IVI, Kwanak PO Box 14 Seoul, Korea 151-600 Tel: 82-2-872-2801 Fax: 82-2-872-2803 Email: hjong@ivi.org

from whom further particulars can be obtained. Absolute confidentiality will be respected.



NATIONAL EYE INSTITUTE

DIRECTOR, DIVISION OF INTRAMURAL RESEARCH

We seek an outstanding scientist to lead the Division of Intramural Research (DIR) of the National Eye Institute (NEI), National Institutes of Health (NIH), located in Bethesda, Maryland. The Director, DIR, leads a vision research program of national and international scope that is staffed by approximately 240 scientists and support personnel and has an annual budget of more than \$40 million. DIR scientists perform laboratory, translational, and patient-oriented vision research. In addition, the Director, DIR, will be expected to carry out independent laboratory research on the visual system relevant to development, maintenance of normal visual functioning, neurodegeneration, or neuronal rescue or regeneration.

The applicant must be a laboratory scientist with a national and international reputation for excellence. The applicant must possess a Ph.D. or equivalent degree in a biomedical or related field and possess broad knowledge in the range of sciences relevant to the normal and diseased eye and visual system. The Director, DIR, is responsible for creating and maintaining a nurturing research environment which facilitates creativity, collaboration among scientists from different disciplines, and the efficient utilization of resources. Therefore, the applicant should have experience in directing and managing a scientific research program, with responsibility for recruiting and retaining highly capable, culturally diverse employees. Salary ranges from \$120,261 to \$200,000 per year. A recruitment bonus of up to 25% of base pay may be available to a non-federal employee selected for this position, subject to individual approval. A relocation bonus of up to 25% of base pay may be available to a permanent federal employee who must relocate to accept this position, subject to individual approval.

All applications should include the following: a statement of research interests; a career synopsis; a current curriculum vitae and bibliography; and the name and addresses of six references. A list of the requirements and additional information about the position should be obtained by contacting Ms. Wild at the address listed below. Applications should be sent to:

NIH, National Eye Institute Attention: Ms. Cheryl Wild Building 31, Room 6A18 31 Center Drive – MSC 2510 Bethesda, Maryland 20892-2510

Applications must be postmarked no later than November 1, 2001.

Applicants with access to E-mail may transmit their materials to the following E-mail address: <u>CWild@nei.nih.gov.</u>

Applicants with access to the Internet's World Wide Web may wish to browse the NIH/NEI Home Page at http://www.nei.nih.gov/jobs/index.htm. Application materials may be Faxed to (301) 496-3958

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, gender, national origin, political affiliation, marital status, disability, age, sexual orientation, or membership or nonmembership in an employee organization.

NIH is an Affirmative Action/Equal Opportunity Employer. Women, minorities and individuals with disabilities are encouraged to apply.



The Department of Biochemistry and Molecular Biophysics

We are seeking Tenure-Track Assistant Professors in the following disciplines:

Scientists with research interests in the area of single molecule studies (e.g. using fluorescence or optical traps).

Scientists in areas of **experimental molecular biophysics**, including thermodynamics, molecular recognition, and protein engineering.

Scientists in areas of **experimental biochemistry**, specifically kinetic mechanisms of enzymes, protein:protein interactions, and nucleic acid:protein interactions.

We also search for computational biochemists and biophysicists in the area of Integrative Modeling of Metabolic/Regulatory Systems and Pathways, in conjunction with the new CENTER for COMPUTATIONAL BIOLOGY.

We offer an exceptionally interactive scientific environment, newly renovated laboratory space, and generous start-up funds for successful candidates.

Investigators will be expected to develop an independent research program to enhance current departmental interests (www.biochem.wustl.edu; www.ccb.wustl.edu). Candidates should have an enthusiasm for participating in an interdisciplinary scientific community as well as graduate student teaching. The anticipated start date for these positions is Fall 2002.

Applicants to the Department or to the Center should submit a curriculum vitae, selected reprints, a short summary of future research plans, and the names of three references by January 15, 2002 to:

Kathleen B. Hall, Ph.D. Chair, Faculty Search Committee Washington University School of Medicine Department of Biochemistry and Molecular Biophysics Box 8231, 660 S. Euclid Ave St. Louis, MO 63110

AN EQUAL OPPORTUNITY EMPLOYER



UCLA Tenure-Track Positions, Physiology (2)

The Department of Physiology at the UCLA School of Medicine invites applications for two tenure-track faculty positions, preferably at the level of Assistant Professor.

The first position involves research in molecular physiology including functional genomics, proteomics, or transgenic approaches. Candidates are expected to have a strong background in cellular and molecular biology and the application of genetic approaches to the study of physiological systems.

The second position is targeted for research in molecular cardiology, possibly in the area of cardiac development or cell cycle regulation though all areas will be considered. Candidates are expected to have a strong background in molecular biology including, e.g., genetic engineering or gene array technology. An interest in integrating computational and experimental biology is desirable. The successful candidate will be a member of the interdisciplinary UCLA Cardiovascular Research Laboratory.

The successful candidates will be expected to develop independent research programs and participate in the teaching mission of the Department for medical, dental, and graduate students.

Applicants should email their curriculum vitae, a letter with a statement of research interests and career goals, and the names of three references to PhysiologySearch@mednet.ucla.edu.

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



Advancing Medicine. Creating the Future. Bringing Science to Life.

At Applera Corporation, we're committed to ensuring that biological information plays a pivotal role in the future of medicine and the well-being of humankind. From genomic information to instrument systems, we enable science for life. We are currently recruiting at all levels for the following positions in various locations including Foster City, San Jose, Alameda, and Pleasanton, CA; Santa Fe, NM; Houston TX; Framingham, Mass.

SCIENTISTS, CHEMISTS & ENGINEERS, SOFTWARE ENGINEERS; DNA Sequencing Projects, research and development, genetic analysis, bioinformatics, and molecular microbiology.

SALES ENGINEERS; FIELD SUPPORT ENGINEERS; SOFTWARE MARKETING SPECIALISTS; Mass Spectrometry Sales Specialists, sales and market development for protein analysis instrumentation products. Regional positions: Work at various customer sites: Illinois and Midwestern States; Colorado and Rocky Mountain States; California and Western States. Texas and the Southwest; North Carolina and Eastern States.

Interested candidates should send their resumes to: Applera Corporation, Human Resources Department, 850 Lincoln Centre Drive, Foster City, CA 94404. FAX: (650)638-5874. For more information on these and other career opportunities. visit

our website: **www.abcareers.com**. Applera Corporation is an Equal Opportunity Employer and welcomes diversity in the workplace.



www.abccareers.com

FULL AND ASSISTANT PROFESSORS

Genomics, Structural Genomics and Bioinformatics

The Department of Biochemistry at the UMDNJ-Robert Wood Johnson Medical School seeks outstanding candidates at the Full and Assistant Professor level in the general areas of Genomics, Structural Genomics, and Bioinformatics. The Robert Wood Johnson Medical School and Rutgers University share its campus and have embarked on a major initiative to recruit experts and establish a world-class center for computational and genomic research. Towards this goal, the Department of Biochemistry has established an Endowed Takara Chair in Genomics and Bioinformatics, and also has additional tenure-track lines for junior faculty appointments. The senior appointment should be a recognized leader in the field with an exceptional scientific and funding record. The candidates are expected to maintain a vibrant research program and contribute to teaching. RWJMS, Rutgers and the Center for Advanced Biotechnology and Medicine (CABM) offer an extremely stimulating academic environment that includes over 200 active research groups. The infrastructure available on campus is outstanding, with exceptional facilities for structural and computational biology. Notably, Rutgers University is the repository of the Protein Data Base (PDB) and the hub of the Northeast Structural Genomics Consortium (NESG). RWJMS is in proximity to most major pharmaceutical companies and is less than an hour from either NYC or Philadelphia

The candidates require a Ph.D., M.D. or equivalent degree. Please submit curriculum vitae, a brief statement of research, pertinent reprints and arrange to have 3-4 letters of reference sent to: Chair, Bioinformatics Search Committee, Department of Biochemistry, Robert Wood Johnson Medical School, UMDNJ, 675 Hoes Lane, Piscataway, NJ 08854-5636. Deadline for applications is September 30, 2001. UMDNJ, is an Affirmative Action/Equal Opportunity Employer, M/F/D/I, and a member of the University Health System of New Jersey. Regrettably we can respond only to those candidates chosen for an interview.

> For more information, visit our website at: http://www.umdnj.edu/hrweb/

Faculty Position in Genomics and Proteomics

Memorial Sloan-Kettering Cancer Center is seeking an outstanding individual to fill a tenure-track faculty position in the area of genomics and proteomics.Candidates should be applying the techniques of genomic and proteomic analysis to probe fundamental biological questions. The successful candidate will be expected to lead a strong independent research program. Memorial Sloan-Kettering provides an extraordinary opportunity for individuals interested in human/cancer genetics through both its clinical and basic science resources (www.ski.edu). Appointment at any level will be considered.Interested parties should forward their Curriculum Vitae, a description of their past research accomplishments and proposed research program, selected reprints, and either three letters of recommendation (for Assistant Member appointments) or a list of potential references (for Associate and Full Member appointments) to: Genomics and Proteomics Search, Ms. Linda Z. Smith, Box 150, Memorial Sloan-Kettering Cancer Center, 1275 York Ave, New York, New York 10021. Submission can also be made by E-mail as either Microsoft Word or pdf files to I-smith@ski.mskcc.org. Inquires to either Ms. Smith or Dr. Kenneth J. Marians, Chairman, Molecular Biology Program, Memorial Sloan-Kettering Cancer Center, k-marians@ski.mskcc.org. Application deadline is November 15, 2001. EOE/AA



Pharmaceutical

Building new scientific inroads to drug discovery.

Driving the success of GlaxoSmithKline - the world's leading pharmaceutical organization - is a continual search for innovation. Apart from a research and development capability that sets the benchmark for our industry, we're committed to recruiting and retaining the best and brightest by providing unequalled individual and career development opportunities within our organization. We currently have an opportunity available in our state-of-the-art facility, focated in suburban Philadelphia, PA.

Head, In vivo Biology

As a leader in the use of in vivo models you will use your skills to identify the activity of novel protein agents derived from the human genome. The in vivo models that you will be experienced in will include some of the following: immunological models, bacterial, viral, and oncology models. You will be responsible for building a multi-disciplinary team dealing with protein agents and antibodies and their effect in various in vivo models. In addition, you will establish multi-disciplinary research collaborations with the departments of Genetics Research, Discovery Research and Drug Discovery to identify the therapeutic potential of these novel proteins. The successful candidate will have a Ph.D. in biological sciences with 8-10 years of industrial research experience and a proven track record of publications, patents, etc. Further prerequisites for this position are expertise in performing in vivo and in vitro pharmacological experiments, strong training in Immunology, Oncology or Host Defense Research, with experience in, among others, immunological, bacterial, viral, host defense and oncology models.

GlaxoSmithKline is dedicated to an innovative workplace and supports you with career long opportunities and learning. We offer a competitive benefits and compensation package designed to attract and retain the very best. For confidential consideration and efficient processing, visit our Web site: www.gsk.com Indicating Job Code: 01-1325 is essential to search. Principals only, no agencies please.

Developing talent through equality of opportunity, M/F/D/V.



HOT Science ... COOL People

That's what they're saying about Gilead Sciences. Our science is exciting - with four products on the market, two in late stage development and more in the pipeline. And our people are awesome. With a worldwide presence and more than 900 employees, we're big enough to be a recognized leader in the industry, but small enough for you to make your mark.

Sr. Research Associate Job Code SRF1-308

As a member of the drug discovery team focused on the identification of new antivirals, the successful candidate will be responsible for a biological evaluation of small molecules and further characterization of selected lead structures. This will include the development and optimization of various cell and protein based assays, generation of screening reagents and other biological drug screening. As part of this process, you will interact with other research groups such as Structural and Medicinal Chemistry and Metabolism. You will also support the identification and validation of novel therapeutic targets by using molecular and biochemical approaches.

Requires a Bachelor's and/or Master's degree in Life Sciences (Molecular Biology, Cell Biology, Microbiology, Immunology), with at least 3 years of lab experience. Knowledge of DNA and RNA manipulation is needed, including PCR, RT-PCR, cloning and sequencing; protein expression and purification, and cell culture. Virology experience is a plus. Must be proficient with MS Office applications and be familiar with Molecular Biology software.

Interested candidates should apply online at **www.gilead.com**. We are an equal opportunity employer because it's great for business.





PLANT SCIENCE CENTER Structural Biology and Biochemistry

The Donald Danforth Plant Science Center is soliciting applications for a faculty position in X-ray crystallography to join a multi-disciplinary group of researchers in studies of plant biology. Preference will be given to candidates at the Assistant and Associate levels. Areas of interest include biochemistry, metabolic pathways, and structural genomics. Emphasis is placed on interdisciplinary research and a strong willingness to tackle cutting edge problems. See www.danforthcenter.org for more information. Send CV, four letters of reference, and statement of research interests to:

Ms. Billie Broeker Human Resources Donald Danforth Plant Science Center

7425 Forsyth Boulevard, Box 1098 St. Louis, Missouri 63105 bcbroeker@danforthcenter.org

The Donald Danforth Plant Science Center is an Equal Opportunity/Affirmative Action Employer and encourages applications from underrepresented groups, including minorities, women and people with disabilities.



WORLD HEALTH ORGANIZATION (WHO) The International Agency for Research on Cancer (IARC)

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

Scientist, Chief of Unit of Cancer and Biostatistics Vacancy notice RC/01/5

to head the Unit of Cancer and Biostatistics which will develop new statistical tools for cancer epidemiology. The successful candidate will be expected to develop and lead the new Unit of Cancer Biostatistics and will be responsible for conducting research in analytical methods applicable to cancer research, including the development and testing of new computational techniques. He/ she will provide high-level support to in-house scientists in the design and analysis of complex projects related to genetic and environmental investigations of cancer etiology. Required qualifications are a Ph.D. in Biostatistics, Computer Science, Computational Biology or Bioinformatics with strong background in the analysis of biomedical or genome-related data.

Substantial experience in conducting methodological research in biostatistics, bioinformatics, epidemiology or a related field, with relevant publications in high-quality peer-reviewed journals. Excellent oral and written English communication skills and a working knowledge of French are required.

The grade of the post is P4. The initial appointment will be for two years, the first being probationary. The annual salary level is US\$ 55 180 tax free single rate and US\$ 59 255 for a staff member with dependants plus a cost of living element which is currently 9.4 % of the above figures.

Applications should be sent before 28 September 2001 to:

Personnel Office, IARC 150, Cours Albert Thomas FR-69 372 Lyon Cedex 08, France, Fax +33 4 72 73 83 35, E-mail : personnel@iarc.fr For more information, see IARC home page : http://www.iarc.fr under '*vacancies*'. When applying, please quote the number of the vacancy announcement and complete the WHO Personal History form, which is obtainable from the home page. Applications from women are encouraged.

United States Environmental Protection Agency Office of Research and Development National Health and Environmental Effects Research Laboratory Western Ecology Division SUPERVISORY LIFE SCIENTIST/PHYSICAL SCIENTIST GS-0401/1301-14/15

The US Environmental Protection Agency's National Health and Environmental Effects Research Laboratory, Western Ecology Division in Corvallis, Oregon is seeking qualified candidates to fill the position of Chief of the Ecosystem Characterization Branch. This position will lead a group of multidisciplinary scientists in planning and conducting a comprehensive research program on the effects of natural and anthropogenic stress on the structure and function of ecosystems. The program should include research that characterizes the relationship between stressors and ecological processes and conditions, particularly at the watershed and landscape scales. This research program should also address the effects of landscape patterns and habitat quality on wildlife and aquatic dependent populations, including rare and endangered species. The ideal candidate will have strong skills in landscape ecology, modeling, and research program leadership.

This is a permanent, full-time position. U.S. citizenship is required and candidates must meet U.S. Office of Personnel Management qualification requirements including specific educational coursework. Candidates should have the required education and/or experience as described in the announcement referenced below. Salary ranges from \$72,969 to \$111,581 and is commensurate with qualifications. The selected candidate will be eligible for a full benefits package, including relocation expenses, health insurance, life insurance, retirement and vacation and sick leave.

HOW TO APPLY: Vacancy announcements and application instructions will be posted on the U.S. Office of Personnel Management's (OPM's) web site at http://www.usajobs.opm.gov as of August 27, 2001 under announcement number EPA-RTP- DE-2001-182. The application deadline is October 1, 2001. For further information, contact the EPA Human Resources Management Division at (800) 433-9633, and reference "WED Branch Chief position."

The U.S. EPA is an Equal Opportunity Employer

HEAD OF MATERIALS SCIENCE

£65,000 + Alder

Aldermaston

Established in the 1950s to research, design and manufacture nuclear warheads, AWE continues to provide the nation's nuclear deterrent and be at the forefront of developments in science and technology, providing innovative technological applications in a variety of fields. Across a broad spectrum of disciplines, with state-of-the-art facilities and in an environment with a strong technology focus, everything is geared towards ground-breaking progress.

As we enter an exciting new phase in the development of Materials Science within AWE, we seek an exceptional individual to fill this very high profile role to co-ordinate and utilise to the full the resources at our disposal.

You will need to demonstrate a rich pedigree of professional and academic achievement. Therefore, in addition to an advanced degree, you will also possess highly relevant experience in materials related work and be entirely familiar with taking the lead in substantial R&D projects.

Specific research areas will include predictive materials ageing in metals, organics and explosives, new materials formulations, materials processing research, molecular and system level modelling, non-destructive evaluation and sensor technology.

Your technical talents must work in tandem with, and be complemented by, your leadership qualities. You will be expected to possess the ability to inspire; the determination to bring out the very best from our scientists and engineers; the energy to nurture talent and optimise resources; the vision to create and implement strategic direction; and the drive, flair and influence to build one of the country's leading Materials Science Centres at AWE.

If you feel you can meet these demanding criteria and that you have the skills and resolve to meet this particularly exacting challenge, please apply to HR Operations Team, Recruitment, AWE Plc, Aldermaston, Reading, Berkshire RG7 4PR. E-mail: hr.customer.services@awe.co.uk Alternatively, for an application form, please call 0118 971 1434.

www.awe.co.uk

tions at work!

SENIOR RESEARCH SCIENTIST I

Promega invites you to join an organization in which technological innovation, scientific creativity, collaboration with others and independent thought is appreciated and encouraged.

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Primary Responsibilities: Develop products and evaluate new technologies related to in vitro (extract-based) expression, protein purification and detection. Qualifications: A Ph.D. in Biochemistry/Molecular Biology or equivalent, with a minimum of 0-2 years' experience in a research and/or development environment are required. Experience with in vitro translation in wheat, rabbit, yeast or E.coli extracts is preferred. In addition, previous experience in the following is highly desirable: in vitro display technologies, high-throughput drug discovery or molecular diagnostic assays, protein purification (including HPLC, FPLC, gel filtration-affinity and other chromatography methods), enzymatic assays, protein folding assays, protein detection methods (native and SDS PAGE electrophoresis, co-immunoprecipitation, western blotting) and non-isotopic methods for the above, as well as development of in vitro transcription systems.

Interested candidates please forward your resume to: Promega Corporation, Human Resources, 2800 Woods Hollow Rd., Madison, WI 53711. Fax: 608-298-4652. Email: hr@promega.com. EOE

UNIVERSITY OF CALIFORNIA, DAVIS SCHOOL OF MEDICINE MEMBRANE BIOLOGY INITIATIVE



The University of California, Davis, School of Medicine, Department of Human Physiology is recruiting five (5) full-time tenure track, state funded, academic positions at the Assistant/Associate Professor level. These positions are to be recruited into the new Membrane Biology Initiative at the UCD School of Medicine. Candidates must possess a Ph.D. and/or M.D. degree and have at least two years of productive postdoctoral experience. Individuals selected for the positions are expected to build a successful, independent research program and to achieve excellence in the teaching of basic sciences to medical and graduate students. The most important criteria in the consideration of applicants are: (1) a record of excellence, creativity, and initiative in research, which establishes a strong potential to build a vigorous and competitive research program; and (2) a demonstrated ability to communicate effectively as a teacher. Research areas of particular interest include, but are not limited to: Membrane Trafficking; Membrane Transport and Signaling; Structure, Function, and Organization of Membrane Components

Letters of interest, curriculum vitae, up to three representative reprints, synopsis of research plans (past, present and future goals), summary of teaching experience/philosophy, and the names/addresses of five references should be forwarded to: Richard Carlsen, Ph.D., Chair, Search Committee, c/o Department of Human Physiology, 3301 Tupper Hall, East Health Sciences Drive, University of California, Davis, CA 95616. These positions will be "Open Until Filled"; for full consideration, applications should be received by January 31, 2002.

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



Molecular Modeler

The Molecular Modeling Group in the Structural Biology Department has an opening for a Molecular Modeler (Grade 16-19). As an integral member of the group, the successful candidate will be responsible for structure-based ligand design and protein modeling on a wide variety of projects. You will also work on multiple projects and contribute to the advancement of scientific knowledge and the successful development of drugs. The ideal candidate will possess a Ph.D. in organic chemistry or biophysics and have several years experience in computational chemistry and ligand design, preferably in the pharmaceutical industry, as well as be self-motivated, well-organized, possess excellent communication skills, interact effectively with others and work well in a team environment. Experience with other modeling techniques is a plus.

Follow your aspirations to Abbott for diverse opportunities, competitive salaries, great benefits, a 401k retirement savings plan, a company paid pension plan and profit sharing, as well as growth and stability to build your future. For immediate consideration, please visit our website at www.abbott.com. Click on 'Career Center,' then 'Job Opportunities' and insert '4939HS' in the 'Keyword' field at the bottom of the page.



Assistant, Associate or Full Professors UMDNJ -ROBERT WOOD JOHNSON MEDICAL SCHOOL

The Department of Pathology & Laboratory Medicine invites applications for full-time tenured-track Aenured faculty positions. Disciplines of interest include molecular cell biology, biochemistry/biophysics, vertebrate/invertebrate developmental biology and genetics. The positions are in the Research Division of the Department, located on the Piscataway Campus of the Robert Wood Johnson Medical School and Rutgers University.

Appointment requires a Ph.D. or M.D. degree, postdoctoral experience, and evidence of outstanding research potential, or for the more senior applicants, evidence of outstanding academic achievement. Applicants should provide a curriculum vita, brief description of research plans, reprints of recent papers, and the names of three or more individuals who would provide letters of recommendation to be sent to: Peter D. Yurchenco, M.D., Ph.D., Professor and Vice-Chair, Department of Pathology & Laboratory Medicine, UMDNJ-Robert Wood Johnson Medical School, Medical Education Building - Room 212, One Robert Wood Johnson Place, New Brunswick, NJ 08903

UMDNJ is an Affirmative Action/Equal Opportunity Employer, M/F/D/V, and a member of the University Health System of New Jersey. Regrettably we can respond only to those candidates chosen for an interview.



To learn more about us, visit our website: http://www.umdnj.edu/hrweb/



UNIVERSITY OF PITTSBURGH CHAIRED PROFESSORSHIP IN

EXPERIMENTAL BIOLOGICAL PHYSICS

The Department of Physics and Astronomy of the University of Pittsburgh is searching for an established experimental researcher in biological physics to assume an Andrew Mellon Professorship. This tenured appointment, which is subject to budgetary approval, would begin with the Fall Term 2002 or thereafter.

The successful candidate will have an outstanding record of research accomplishments and will likely have an established record as an educator having demonstrated teaching effectiveness at both the graduate and undergraduate levels.

Applicants should also have a demonstrated ability to build and successfully fund a creative, independent and broad-based research program, to provide cohesion with existing efforts and to initiate new directions. Potential for interactions with faculty and researchers in the natural and life sciences, engineering, and the School of Medicine and the Medical Center of the University of Pittsburgh will be considered favorably.

The relevant research can be in any area of biology-inspired physics at the interface between physics and biology. An associated search for a junior faculty member working in biological physics will be constituted as soon as practicable.

Please send a curriculum vitae, bibliography, statement of research interests and proposed directions, and a list of references to David Jasnow, Chair, Department of Physics and Astronomy, 100 Allen Hall, University of Pittsburgh, Pittsburgh, PA 15260. Applications should be received before February 15, 2002 to ensure full consideration.

The University of Pittsburgh is an Affirmative Action, Equal Opportunity Employer. Women and members of minority groups that are under-represented in academia are especially encouraged to apply.

Faculty Positions in Developmental Biology

Memorial Sloan-Kettering Cancer Center invites applications for tenure-track faculty positions at any level in Developmental Biology. Successful candidates will carry out independent research programs addressing problems in any aspect of developmental biology. Topics of particular interest include: morphogenesis, pattern formation, cell and tissue polarity, organogenesis, and neural development. Research could focus on either vertebrate or invertebrate development; genetic approaches are appreciated. The new faculty members will join a community of developmental biologists in several research programs at Memorial Sloan-Kettering Cancer Center, which offers an outstanding research environment and support infrastructure (www.ski.edu). Interested parties should forward their Curriculum Vitae, a description of their past research accomplishments and proposed research program, selected reprints, and three letters of recommendation (for Assistant Member appointments) or a list of potential references (for Associate and Full Member appointments) to: Developmental Biology Search, Steven Cappiello, Box 193, Memorial Sloan-Kettering Cancer Center, 1275 York Ave, New York, New York 1021. Application submission may also be via E-mail to s-cappiello@ski.mskcc.org as either Microsoft Word or pdf files. Recommendation letters should be forwarded by post. Inquires to either Steven Cappiello or Dr. Kathryn Anderson, Molecular Biology Program, Memorial Sloan-Kettering Cancer Center, k-anderson@ski.mskcc.org. Application deadline is November 15, 2001. EOE/AA



www.mskcc.org

Memorial Sloan-Kettering Cancer Center The Best Cancer Care. Anywhere.



The NASA/Goddard Space Flight Center invites applications for the Senior Executive Service position of Chief of the Laboratory for Atmospheres, located in Greenbelt, Maryland.

The Chief of the Laboratory for Atmospheres is responsible for planning, leading, directing, implementing and assessing a large range of basic and applied research dedicated to advancing knowledge and understanding of the Earth's and other planets' atmospheres. This mission is accomplished through the development of comprehensive observing and modeling systems. The overall goals are to develop the capability to understand the present atmospheres of the planets and to predict the future state of the Earth's.

The Laboratory's main science themes are: atmospheric water and energy cycle; aerosol radiative forcing of climate and impact on the environment; atmospheric ozone and trace gases; climate variability; atmospheric carbon cycle interactions; weather prediction; modeling and data assimilation; and planetary studies. The Laboratory Chief encourages collaborative activities with other organizations within NASA as well as with universities, other Government agencies, and private scientific institutions. The Laboratory Chief is responsible for leading and directing 85 civil servants and technically directing approximately 280 contractor support staff.

The incumbent reports to the Director of Earth Sciences, participates in the development and implementation of the Earth science mission of the Goddard Space Flight Center, and is expected to interact extensively with NASA's Earth Science Enterprise. The Laboratory Chief performs individual research and may act as a principal investigator, a co-investigator, and/or a project scientist on NASA missions, in addition to being the supervisor for personnel within the Laboratory.

The incumbent must be recognized as an authority in an area of atmospheric sciences that is relevant to the primary activities of the Laboratory. The incumbent should also possess demonstrated executive management abilities commensurate with the management responsibilities of this position. Compensation for this position ranges from \$120,261 to \$133,700 per annum, including locality pay. Salary will be commensurate with the incumbent's experience.

Applicants must submit either an "Optional Application for Federal Employment" (OF 612), an "Application for Federal Employment" (SF-171), or a resume. In addition, applicants should submit a professional vita (containing a list of refereed publications), and a cogent (approximately 1000 words) statement of career interests. The OF-612 and SF-171 can be accessed using the following URL: http://ohr.gsfc.nasa.gov/forms

Applications should be forwarded to:

NASA/Goddard Space Flight Center Human Resources Operations Office, Code 113 ATTN: Ms. Barbara Hamilton Greenbelt, MD 20771

For more information about position requirements and application procedures, please call Ms. Hamilton at (301) 286-9247 or (301) 286-7918 (TDD); and for scientific questions, please call Dr. Franco Einaudi, Director of the Earth Sciences Directorate, at (301) 614-6786. Applications must be submitted by October 31, 2001.

Please note that this is not a formal Senior Executive Service vacancy announcement where candidates address managerial and technical qualifications. We anticipate such an announcement will follow at a later date.

Equal Opportunity Employer. U.S. Citizenship Required.

Whole Genome Scanning



Discovering the genetic basis of complex disease to improve lives

At Perlegen Sciences, we possess a high-density, wholewafer, microarray technology that enables us to compare the entire genomes of thousands of diseased and healthy individuals in order to associate genetic regions with important phenotypes. We invite you to consider joining our unique company as we apply this technology to bring focus to biological research and to accelerate the discovery of drugs and diagnostics.

Recently established, we are a well-funded, pre-IPO company that is moving quickly, building a world-class team that includes:

- I genetic epidemiologists
- I experts in scanning and optics
- I laboratory automation engineers
- I software analysts and programmers
- I molecular biologists

If you possess inventive skill in these areas and would enjoy working in a cross-disciplinary culture that encourages creativity and challenges intellectually, we'd love to hear from you. Please mail your resume to Perlegen Sciences, 3380 Central Expressway, Santa Clara, CA, 95051. Fax to 408-731-5455. Or email to perlegen_HR@Perlegen.com.

For more information on these positions and other opportunities, visit our website at **www.perlegen.com**. EOE.



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first ever

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salary

Salary Survey Issue— 12 October 2001

> What are the median salary levels for different disciplines? What do scientists really want in a potential employment situation? Do some discipline environments offer greater job satisfaction than others?

This survey is being conducted by the AAAS Membership office and *SCIENCE*'s editors. The results will publish in the October 12 issue. This special report will be a "must-read" for every scientist so you don't want to miss this unique opportunity to showcase your organization and all that it can offer potential employees.

Benefits for Advertisers:

Maximum Exposure

Paid circulation: 148,000¹ *SCIENCE* subscribers; global weekly readership: 820,000².

Special Bonus Distribution

American Association of Pharmaceutical Scientists annual meeting, 22-24 October, Denver, Colorado.

SCIENCE Careers posting available

For a nominal fee, your recruitment ad can be placed on our website, ScienceCareers.org.

Access to Science's Resume/CV Database

When you run your ad in print, your organization can purchase one-day access to the Resume/CV Database for only \$250. The database currently has over 7,800 resumes/CVs posted.



Issue Date: Space Reservation Deadline: Materials Due:		12 October 2001 25 September 2001 2 October 2001				
				Contact: U.S.: Europe: Australia: Japan:	Daryl Anderson Deborah Cummings Keith Sandell Mashy Yoshikawa	(202) 326-6543 +44 (0) 1223 326 500 +61 29922-2977 +81 3 3235-5961

Science, December 2000, BPA Publisher's Statement

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





pv40456.html.

DO SOME GOOD (science) Genomic We seek experienced and motivated scientists to Profiling

develop products that improve healthcare. Emphasizing teamwork, creativity, and intellectual achievement, we are dedicated to providing a challenging and stimulating work environment, state-of-the-art labs, and a generous salary/benefits package.

> You should be an energetic self-starter with well-documented productivity and integrity; strong organizational, interpersonal, and communication skills required.

VP OF Product Devel. (job code: DS901)

You should have successfully managed all stages of in vitro diagnostic immunoassay/instrumentation product development and commercialization, including R&D, regulatory, QSR, and manufacturing. Your ability to manage the commercial development of research-stage diagnostic projects should be supported by numerous examples of the successful finished products. Role includes: strategic planning, supervising multiple teams, representing compa- resume, one page cover ny, product planning/budgeting, managing IP/licensing, and attracting/managing contracts & alliances. Ph.D., >12 yr in industry.

SR. SCI. / SCIENTISTS (job code: SS901)

You should have proven abilities in conceptualizing, developing, optimizing and troubleshooting new diagnostic immunoassays. Sr. Scientists must have solid team leadership & project management abilities, and must have

demonstrated excellence in product development for infectious disease immunoassays in industry. Ph.D. + postdoc.

Évstems MANA? is an exciting, well-financed, Cambridge-based startup company with breakthrough technology for producing a new generation of tools that promise to revolutionize infec-

tious disease diagnostics.

Please submit a letter, and contact information for 3 references (specifying relationship) to:

Job Code Genomic Profiling Systems, Inc. 840 Memorial Drive, 4th FI Cambridge, MA 02139 Or FAX to: 617 547-6060

Or email (text or attached MS Word file) to:



jobs@genprosys.com include last name & job code in BOTH the

subj. line of email AND attached filename)

Biochemistry Faculty Position Assistant, Associate or Full Professor **Brown University Division of Biology and Medicine**

The Department of Molecular Biology, Cell Biology and Biochemistry at Brown University announces the opening of a tenure track/tenured faculty position in Biochemistry to be appointed July 1, 2002. The appointment may be made at the level of Assistant, Associate or Full Professor depending on the qualifications of the candidate selected.

Qualifications include a Ph.D. or M.D. degree and a demonstrated track record of excellence in research. The applicant will be expected to pursue an independent, vigorous, externally funded research program that emphasizes biochemical approaches to study contemporary biological problems, and to be an active member of the NIH-funded predoctoral training program in Molecular Biology, Cell Biology and Biochemistry. The applicant will be expected to participate in graduate and undergraduate teaching.

The Search Committee will give full consideration to applications received by October 1, 2001 that include a curriculum vitae, description of research interests, and at least three letters of reference (five for a senior level appointment). Application material should be sent to: Dr. Kimberly Mowry, Biochemistry Search Committee Chair, c/o Ms. Elizabeth LeFebvre, Department of Molecular Biology, Cell Biology and Biochemistry, Brown University, Box G-J264, Providence, RI 02912. Letters of reference should be sent under separate cover to the same address.

Brown University is an EEO/AA Employer and invites applications from women and minorities.



Johann Wolfgang Goethe-Universität Frankfurt am Main

The Department of Chemical and Pharmaceutical Sciences at the Goethe-University in Frankfurt am Main, Germany, is looking for a

C-4 Professur of Biophysical Chemistry

Applicants should have an outstanding track record in nuclear magnetic resonance spectroscopy of biological macromolecules. It is expected that the new professor will join the Magnetic Resonance Centre established at Goethe-University with EU and DFG funds. The Centre currently comprises four professorships.

Teaching obligations of the successful candidate will include the course in biophysical chemistry within the newly introduced biochemistry curriculum. Participation in an existing DFG-funded collaborative research centre (SFB) and cooperation with the Max-Planck-Institute of Biophysics in Frankfurt are desirable.

The university intends to increase the poportion of women in science. Therefore, applications from highly qualified female candidates are especially encouraged. Goethe-University is an equal opportunity employer.

Applications including a cv, list of publications, reprints or copies of 5 key publications, proof of teaching experience, and a statement of current and future research should be sent 6 weeks after publishing to:

Der Dekan, Fachbereich Chemische und Pharmazeutische Wissenschaften, Goethe-Universität, Marie-Curie-Str. 9, D-60437 Frankfurt, Germany

Canada Research Chair in Developmental Biology



Creating the future of health.

The Genes & Development Research Group (GDRG) and the Department of Biochemistry & Molecular Biology invite applications for a full-time academic position at the Assistant Professor level or higher as a Canada Research Chair (Tier II) in Developmental Biology. This position offers an excellent opportunity to develop an independent research program within a dynamic, collaborative and multidisciplinary environment. Current strengths of the GDRG include molecular, genetic and neurobiological approaches to the study of the development of model organisms, including C. elegans, Drosophila, Xenopus, chick and mouse. For more information about the research interests of the GDRG members, see http://www.ucalgary.ca/gdrg/. While duties include some teaching and graduate student supervision, at least 75% of time will be protected for research.

The GDRG and Department of Biochemistry & Molecular Biology are part of the rapidly growing Faculty of Medicine which is in the process of building a major new research facility. Calgary is a vibrant, multicultural city (population ~850,000) near the Rocky Mountains, Banff National Park and Lake Louise.

Qualifications include a PhD and/or MD, at least two years of postdoctoral experience and a proven record of research excellence in developmental biology. In addition to nomination for the Canada Research Chair (Tier II; for Terms of Reference see http://www.chairs.gc.ca), the selected candidate is expected to compete successfully for salary support and establishment funding from the Alberta Heritage Foundation for Medical Research and/or the Canadia Institutes of Health Research. We anticipate generous start-up funds will be available to a qualified candidate.

Please submit a curriculum vita, a summary of research interests and two reprints of recent publications, and arrange to have three letters of reference sent directly, by **November 16, 2001** to:

Dr. Samuel Weiss, Chair

Genes & Development Research Group Faculty of Medicine, 3330 Hospital Drive N.W. Calgary, Alberta, Canada T2N 4N1

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary respects, appreciates and encourages diversity.

www.ucalgary.ca



DEPARTMENT OF NEUROSCIENCE UNIVERSITY OF MINNESOTA Tenure-Track Assistant Professor Regulation of Gene Expression in the Nervous System

The Department of Neuroscience at the UNIVERSITY OF MINNESOTA – Twin Cities is seeking two faculty members to strengthen its existing programs in cellular and molecular neuroscience. The opportunity to add faculty resulted from a state-supported initiative to strengthen the University's research enterprise in cellular and molecular biology. Cellular and molecular neuroscientists working in signal transduction, control of transcription, protein targeting, neurodevelopment, and cell-cell communication are encouraged to apply. The initiative includes construction of a state of the art research building scheduled for completion next year which will house the new hires. This initiative has made it possible to offer an exceptional compensation and startup package. The ideal candidate will complement current departmental strengths in cellular, molecular, developmental, and systems neuroscience. The starting date is July 2002.

The Neuroscience Department was established two years ago. It includes 27 faculty members, three of whom are new this year. The department is part of a larger community of neuroscientists on campus that includes over 80 laboratories as well as the Graduate Program in Neuroscience. See www.neurosci.umn.edu and www.neuroscience.umn.edu.

Applicants must have a Ph.D. and/or M.D. degree. Desired experience includes at least two years of postdoctoral or equivalent experience, and a strong publication record. The successful candidates must be able to secure permanent resident status or be U.S. citizens and will be expected to develop a vigorous, independent research program that will lead to external funding. Teaching of undergraduate, graduate, and/or professional students will be expected. Please send a curriculum vitae, a statement of research interests, and three letters of recommendation that consider both research and teaching potential to:

Cellular and Molecular Neuroscience Search Committee Department of Neuroscience, University of Minnesota 6-145 Jackson Hall, 321 Church Street, S.E. Minneapolis, MN 55455 USA or chapi007@tc.umn.edu

Electronic versions of the required information may be e-mailed but must be followed with a hard-copy for the official search files. Review of applications will continue until the positions are filled.

The University of Minnesota is an Equal Opportunity Educator and Employer.

UNIVERSITY OF CALIFORNIA SAN FRANCISCO Cardiovascular Research Institute

We are searching for a new faculty member to be appointed at the Assistant, Associate, or Full Professor level. Membership in graduate programs and a joint appointment in an appropriate basic science or clinical department will be offered. Individuals working in areas broadly related to cardiovascular biology, including but not limited to cellular signaling pathways and networks, developmental biology related to the heart or lungs, endothelial, smooth or cardiac muscle, or leukocyte biology, or human, mouse or model system genetics related to the cardiovascular system, will be considered. Candidates should hold an M.D. or Ph.D. degree and will be expected to establish a dynamic research program and to actively contribute to CVRI and graduate training programs.

By November 30, 2001, submit a curriculum vitae, summary of research accomplishments, description of future research plans, reprints of major publications, and three to five letters of recommendation to: Henry Bourne, M.D., and Shaun R. Coughlin, M.D.,Ph.D., c/o Paulette Gregg, Search Committee, CVRI, University of California, San Francisco, CA 94143-0130.

The University of California, San Francisco is an Equal Opportunity/ Affirmative Action Employer. Women and minorities are encouraged to apply.

Faculty position in Atmospheric Sciences Scripps Institution of Oceanography University of California, San Diego

Scripps Institution of Oceanography invites applications for an Associate or Full Professor (tenured) in the general area of atmospheric physics, chemistry and dynamics with emphasis on climate sciences. Areas of interest include, but are not limited to: the role of aerosols and clouds in climate, modeling of the atmosphere pertinent to current climate change problems, and the role of large and mesoscale dynamics in climate. We seek a distinguished scientist and educator with a vigorous research program who also has the ability and interest to interact with and to provide intellectual leadership in climate related issues to the broader Scripps community of marine scientists.

The successful candidate will be expected to teach graduate level courses, both in the general area of atmospheric science as well as in specialized areas of research, and will be encouraged to participate in undergraduate teaching at UCSD. Salary will be commensurate with experience and qualifications and based on the UC pay scale. The position requires a Ph.D. degree and a competitive record of publications, as well as evidence of the ability to conduct and fund an active research program.

Applications and inquiries should be addressed to the Chair, Atmospheric Science Search Committee, Dept. of the Scripps Institution of Oceanography, University of California, San Diego, 9500 Gilman Dr., La Jolla, CA 92093-0208. The position is open until filled. Applications received by November 1, 2001 will receive full consideration.

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

Tenure/Tenure Track Scientist Position in Nutritional Epidemiology at NCI

A tenure/tenure track position is available in the Nutritional Epidemiology Branch (Chief: Arthur Schatzkin, M.D., Dr.P.H.), Division of Cancer Epidemiology and Genetics (DCEG), National Cancer Institute (NCI), National Institutes of Health (NIH). Candidates should have an M.D./D.V.M., a doctorate in epidemiology, or a Ph.D. in nutrition, biochemistry, or a related discipline. Candidates must have a record of publications showing an ability to design, conduct, analyze, and interpret nutritional epidemiologic studies of cancer or other chronic diseases. We seek individuals with demonstrated ability to collaborate productively and collegially with a wide range of scientists both within and outside NCI.

As part of developing independent, interdisciplinary cancer research programs, successful candidates will initiate new observational or experimental epidemiologic studies in areas such as (a) micronutrients, macronutrients, and non-nutritive food constituents; (b) food groups and dietary patterns; (c) dietary assessment, including biomarkers of intake; (d) dietary measurement error; (e) obesity, body size/composition, and energy balance; (f) nutrient-gene interactions; and (g) nutritional modulation of intermediate end points in carcinogenesis. Appropriate space and resources will be provided. Competitive salary and benefit package are available. Interested individuals should send a cover letter, curriculum vitae, brief summary of research interests and experience, copies of selected publications, and three letters of reference to:

Mrs. Judy Schwardron *Division of Cancer Epidemiology and Genetics* National Cancer Institute Executive Plaza South, Room 8073 Bethesda, MD 20892-7374 The closing data for application is October 5, 2001



The National Institutes of Health is an Equal Opportunity Employer

Scientist IV At Abbott Laboratories, MediSense Products, we're focused on developing innovative products that help people with diabetes measure and control their blood glucose levels quickly and

efficiently

We have an opportunity in Bedford, Massachusetts, for a professional to lead a team of researchers, taking an idea from initial concept phase through a research phase, and if successful, transferring the project to a development validation team. Additional responsibilities include supervising project technical staff, designing and fabricating prototypes and experimental set-ups, obtaining necessary internal or external scientific support, and supporting other R&D projects through technical support in scientific specialty. Will also collaborate with leading academic institutions through company-funded research and keep up to date with the latest academic and industrial developments in the field of *in-vitro* diagnostics.

Requires a Ph.D. in biological sciences, with a background in endocrinology, general physiology or dermatology and up to 5 years of postdoctoral experience. Must possess knowledge of the cellular and biochemical mechanisms of diabetes mellitus, as part of basic research into the development of diagnostic products and innovative biosensors for *in-vitro* and *in-vivo* applications. Experience in biosensors or electrochemistry is a plus.

We offer a competitive salary and benefits package, in a dynamic, innovative work environment. To apply, please email your resume to success@abbottcareers.com. Please note you must enter the ad code in the subject line, starting and ending with a forward slash (/). For this position, please indicate /4581HS/AD/SCI. Please visit us on the web at www.medisensejobs.com

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Assistant Professor

The Department of Microbiology and Molecular Genetics at Oklahoma State University is seeking a tenure track ASSISTANT PROFESSOR in the area of molecular pathogenesis. This position will be available in the Fall of 2002. Applicants employing cutting edge molecular genetic approaches to fundamental mechanisms of bacterial pathogenesis are especially encouraged to apply. In addition to developing an independent, competitively funded research program, the successful candidate will perform undergraduate and graduate instruction, normally two courses/yr. Candidates must have a Ph.D. degree or equivalent and relevant postdoctoral experience. An excellent start-up package and nationally competitive salary would be provided. To apply, send a cover letter, curriculum vitae, statements of research goals and teaching philosophy, and arrange to have three letters of recommendation sent to: Dr. David Kim Burnham, Molecular Pathogenesis Search Committee Chair, Department of Microbiology and Molecular Genetics, Oklahoma State University, Stillwater, OK 74078. For full consideration, applications should be received by November 30, 2001. The search will remain open until the position is filled. Oklahoma State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

CHAIR POSITION IN MOLECULAR PHARMACOLOGY OR MOLECULAR MEDICINE

UMIST is expanding its research portfolio in the life science area. We present a unique opportunity to develop a new initiative, in a multidisciplinary life science environment, which will be accommodated in a new £28m multidisciplinary life science centre being built on the UMIST campus (http://www.bi.umist.ac.uk/news/item.asp?info_id=1068). We seek a suitably qualified person to lead and develop research in molecular pharmacology and/or molecular medicine. The successful candidate would also contribute to the design process for the new building. This centre will provide a state-of-the-art environment for a mixed community of scientists with expertise in the physical sciences, engineering, maths, computation and biology/biomedicine, thus offering unique opportunities to explore exciting new avenues of biological research.

Opportunities for research collaborations with local hospitals, other universities and research institutes abound in the thriving bioscience research community of Manchester.

Some aspects of multidisciplinary research currently undertaken at UMIST include state-of-the-art, transcriptome analysis, proteomics (see http://www.lrf.umist.ac.uk/), structural biology (NMR, X-ray crystallography, EM and neutron scattering), RNA biology (see http://www.bi.umist.ac.uk/research/ and http://www.ch.umist.ac.uk/biological.htm), chemical sensing, photonics other instrumentation/measurement research (see http://dias.umist.ac.uk/) plus biological physics, including nanotechnology. Further details of current research can be found at the above websites.

If you are interested in this unique opportunity, please contact Professor Tony Whetton (Tony.Whetton@urnist.ac.uk phone 0161 200 4197).

Salary will be within the Professorial range commencing at £37,004 per annum.

For an application form and further details please write to The Personnel Office, UMIST, PO Box 88, Manchester M60 1QD. The closing date is 5th October 2001. Please quote reference: BMS/A/183.

An Equal Opportunities Employer



Faculty Position in Genomic Integrity

Memorial Sloan-Kettering Cancer Center invites applications for a tenure-track faculty position. The successful candidate will be expected to establish a vigorous research program probing fundamental biological mechanisms that act to maintain genomic integrity. Memorial Sloan-Kettering offers an outstanding research environment and support infrastructure (www.ski.edu). Appointment at any level will be considered. Interested parties should forward their Curriculum Vitae, a description of their past research accomplishments and proposed research program, selected reprints, and either three letters of recommendation (for Assistant Member appointments) or a list of potential references (for Associate and Full Member appointments) to: Genomic Integrity Search, Ms. Linda Z. Smith, Box 150, Memorial Sloan-Kettering Cancer Center, 1275 York Ave, New York, New York 10021. Application submission may also be via E-mail to I-smith@ski.mskcc.org as either Microsoft Word or pdf files. Recommendation letters should be forwarded by post. Inquires to either Ms. Smith or Dr. Kenneth J. Marians, Chairman, Molecular Biology Program, Memorial Sloan-Kettering Cancer Center, k-marians@ski.mskcc.org. Application deadline is November 15, 2001. EOE/AA

Memorial Sloan-Kettering Cancer Center The Best Cancer Care. Anywhere. www.mskcc.org

Yale University Faculty Position in Ecology

The Department of Ecology and Evolutionary Biology at Yale University invites applications for an assistant professorship in ecology. We are interested in individuals doing research on populations, communities, and connections between levels, including those using behavior to connect levels. A record of achievement and a promising research program are more important than the specific research area. The Department of Ecology and Evolutionary Biology is a new and expanding department that is building strength in ecology.

Interested candidates should submit *two* copies of the their CVs, three relevant reprints or manuscripts, a brief research and teaching statement, and the names and addresses of four potential evaluators by October 5, 2001. Send all materials to:

Stephen C. Stearns, Chair Ecology Search Committee Department of Ecology and Evolutionary Biology P.O. Box 208106 Yale University New Haven, CT 06520-8106 E-mail: stephen.stearns@yale.edu

Yale University is an equal opportunity/ affirmative action employer.

EXERCISE BIOLOGIST

THE DIVISION OF BIOLOGICAL SCIENCES, UNIVERSITY OF CALIFORNIA, DAVIS, invites applications and nominations for a position in exercise biology. This is a tenure-track faculty position at the level of ASSOCIATE PROFESSOR or PROFESSOR, as appropriate to the candidate's qualifications. The position will be in the Exercise Biology Program with a joint appointment in the Section of Neurobiology, Physiology & Behavior. A Ph.D. (or equivalent) and postdoctoral experience is required. The candidate must have an outstanding record of research achievement and a strong independent research program in exercise biology. Particular attention will be afforded candidates who have an integrative perspective and employ mechanistic approaches to address important issues in exercise biology, such as skeletal muscle physiology/ development, muscle adaptation to exercise or aging. The successful candidate will be expected to teach undergraduate and graduate level courses in exercise biology/exercise science and participate fully in the teaching and advising programs coordinated by the Divisions of Biological Sciences and Graduate Studies. A senior appointee would also be expected to take a leadership role within the Exercise Biology Program.

Applications should include: (1) curriculum vitae (with e-mail address), (2) statement of current and proposed research interests, (3) three relevant reprints, (4) statement of teaching experience/ interests, and (5) names, telephone numbers, and addresses (postal and e-mail) of at least three references. Candidates should also arrange to have their reference letters mailed directly to the Committee Chair. All materials should be sent to: Charles A. Fuller, Chair, Exercise Biology Search Committee, Exercise Biology Program, University of California, One Shields Avenue, Davis, CA 95616-8674. Closing date: open until filled, but all materials must be received by September 28, 2001 to be assured of full consideration.

The University of California, Davis, is an Affirmative Action/ Equal Opportunity Employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences.



UNIVERSITY OF MICHIGAN BIOLOGICAL SCIENCES SCHOLARS PROGRAM

The University of Michigan Medical School announces the continuation of the Biological Sciences Scholars Program to enhance investigational strength in the life sciences at the University of Michigan.

Now entering its fifth year, this program led to the recruitment of outstanding young scientists in the areas of genetics, microbiology, virology, structural biology, and biochemistry. Individuals recruited will have the following qualifications: PhD, MD, or MD/PhD degrees; two years postdoctoral experience; and evidence of superlative scientific accomplishment and scholarly promise. Successful candidates will be expected to establish a vigorous, externally-funded research program; and to become leaders in departmental and program activities, including teaching at the medical, graduate, and/or under-graduate levels. Primary college and department affiliation and rank will be determined by the applicant's qualifications. Preference will be given to appointments at the Assistant or Associate Professor levels.

Applicants should send their current curriculum vitae (including bibliography), three letters of support, and a two to fourpage summary of their current research program and future research plans to address below. Applications will be considered on a rolling basis, however candidates are strongly encouraged to submit their applications by October 31, 2001.

> John B. Lowe, M.D. c/o Office of Research and Graduate Studies University of Michigan Medical School 4107 Medical Science Building I Ann Arbor, MI 48109-0624

The University of Michigan Medical School is an Affirmative Action/Equal Opportunity Employer.



DIRECTOR NATIONAL INSTITUTE OF BIOMEDICAL IMAGING AND BIOENGINEERING (NIBIB) NATIONAL INSTITUTES OF HEALTH (NIH)

THE POSITION: The NIH is seeking exceptional candidates for the position of Director, National Institute of Biomedical Imaging and Bioengineering (NIBIB). NIBIB is a newly created Institute, established to promote fundamental discoveries, design, development, and translation of technological capabilities in biomedical imaging and bioengineering, enabled by relevant areas of physics, chemistry, mathematics, engineering, materials science, and computer sciences. The Director will provide the leadership and direction to prepare a plan to initiate, expand, intensify, and coordinate research which is multidisciplinary in nature and strongly synergistic with other NIH research Institutes and Centers with respect to biomedical imaging and bioengineering research.

The Director develops Institute goals, priorities, policies, and program activities and keeps the Director, NIH, abreast of the developments and needs of the relevant technologies within the purview of the Institute as they relate to the overall mission of the NIH. The NIBIB Director provides leadership and oversight of the research supported by the NIBIB and identifies any new policies or procedures that enhance the ability to support such research. The Director, NIBIB, will foster collaborations with other Institutes, government research programs, private foundations, universities and private research institutes, scientific societies, voluntary health agencies, and international health and research organizations having an interest and expertise in biomedical imaging and bioengineering.

THE CHALLENGE: NIBIB, the newest NIH Institute, was created by statute, signed into law last December, and officially established in April 2001. This position offers a rare opportunity for the appropriate individual to provide strong and visionary leadership. Critical components of the Institute's early years will be the formulation and refinement of a strategic long-range plan for research in biomedical imaging and bioengineering, the establishment of an integrated program of research and research training, and the development of strong partnerships with other NIH Institutes and Centers which will facilitate the translation of fundamental discoveries into research and applications applicable to a broad spectrum of biological processes, disorders and diseases, across organ systems.

THE QUALIFICATIONS REQUIRED: Applicants must possess an M.D., D.D.S., D.O., D.V.M., or equivalent degree, or a Ph.D. degree in biomedical imaging, bioengineering, or related health sciences, or other similar education, plus increasingly responsible senior-level research expertise and knowledge of research programs in one or more scientific areas related to biomedical imaging and/or bioengineering. Applicants should be known and respected within their profession, both nationally and internationally, as individuals of outstanding scientific competence in biomedical imaging and/or bioengineering. Applicants should be known and respected within their should have demonstrated leadership of a research program involving interactions with diverse groups and extensive planning, program assessment, and analysis of program objectives; a track record of the development of plans for the resolution of major operational problems and issues; and recognized experience in management of financial and human resources, including selecting, managing, and motivating staff using fair and equitable staffing/recruitment practices.

SALARY/BENEFITS: The Director, NIBIB, will be appointed at a salary commensurate with his/her qualifications and experience. Full Federal benefits, including leave, retirement, and savings plan (401K equivalent) will be provided.

HOW TO APPLY: Applicants must submit a current Curriculum Vitae, and bibliography to: Ms. Carmen Garcia, Division of Senior and Scientific Employment, National Institutes of Health, Building 31, Room B3C08, 31 Center Drive MSC2203, Bethesda, MD 20892-2203. Applications may also be sent via email to garciac@od.nih.gov

APPLICATIONS MUST BE RECEIVED BY CLOSE-OF-BUSINESS OCTOBER 31, 2001 NIH IS AN EQUAL OPPORTUNITY EMPLOYER

FACULTY POSITION NEUROSCIENCE Department of Neuroscience University of Connecticut Health Center

The Department of Neuroscience at The University of Connecticut Health Center invites applications for a tenure-track faculty position at the Assistant Professor level. This new department has a strong commitment to excellence in research, scholarship, teaching of medical and graduate students, training health professionals at many levels, and community service. We are particularly interested in applicants with strong credentials in cellular electrophysiology/membrane biophysics, complementary to our departmental strengths (http://neuroscience.uchc.edu). Applicants are expected to have a Ph.D. in relevant basic sciences, or an M.D. with appropriate training. In addition, applicants should have at least three years of postdoctoral experience; the demonstrated ability to develop a strong, competitive and independent state-of-the-art research program to sustain extramural funding; and a plan for contribution to the teaching of medical and graduate students.

Electronic applications are strongly encouraged; applicants should submit a copy of their curriculum vitae, reprints of two (2) representative publications, a one-page statement of scientific goals and plans, and three letters of reference to:

Chair, Search Committee Department of Neuroscience University of Connecticut Health Center 263 Farmington Ave. Farmington CT 06030-3401

neurosciencejob@nso.uchc.edu.

Applications will be accepted until October 31, 2001.

The University of Connecticut is an Equal Opportunity/Affirmative Action Employer. Women and people from diverse racial, ethnic, and cultural backgrounds are strongly encouraged to apply.

RESEARCH SCIENTIST

Experimental Cardiac Catheterization Laboratory

The Rush Heart Institute, one of the nation's premiere heart care centers, is seeking an experienced Research Scientist to be responsible for the experimental catheterization research program. The experimental laboratory has recently relocated to a new research building and offers 1,100 square feet dedicated lab space, a fully equipped ACOM networked cardiac catheterization suite, fractional housing for 62 large animals (34 cardiology specific) and access to ten sterile surgical operating suites.

The Research Scientist will be responsible for conceiving preclinical research projects, developing protocols in collaboration with Section of Cardiology investigators, preparing budgets, identifying and securing industry or federal funding and managing regulatory affairs. The post holder will supervise lab technicians in the implementation of protocols, collecting data and animal care issues and will be responsible for maintenance and use of equipment in the animal catheterization lab.

Requirements include a PhD in Biology, Physiology or relevant discipline, Bachelor or Masters degree, experience in a large animal cardiovascular physiology laboratory including catheterization procedures, anesthesia, surgery, hemodynamic monitoring and post surgical care techniques necessary to conduct experiments. Welldeveloped computer skills, good technical/research and interpersonal communication skills also required.

Interested candidates please send your resume to: Rush-Presbyterian-St. Luke's Medical Center, Job Code: GL-44722, 729 S. Paulina Street, Chicago, IL 60612. Email: hr@rush.edu EOE M/F/D/V





FACULTY POSITIONS Leonard and Madlyn Abramson Family Cancer Research Institute at the University of Pennsylvania Cancer Center

The UNIVERSITY OF PENNSYLVANIA seeks outstanding candidates for tenure-track faculty positions in the recently created Abramson Family Cancer Research Institute, which is an integral part of the University of Pennsylvania Cancer Center and the School of Medicine. Faculty appointments will be based in the School of Medicine. Faculty rank will be commensurate with experience and qualifications.

Candidates who have scientific interests and experience in any field of cancer biology, including, but not limited to cell cycle control, tumor suppressor genes, oncogenes, cancer genetics, signal transduction, angiogenesis, apoptosis, and translational research, should send a letter of interest, curriculum vitae and the names of references to:



Craig Thompson, M.D. Scientific Director The Abramson Family Cancer Research Institute 4th Floor - BRB II/III 421 Currie Blvd. Philadelphia, PA 19104

THE UNIVERSITY OF PENNSYLVANIA IS AN EQUAL OPPORTUNITY/ AFFIRMATIVE ACTION EMPLOYER. WOMEN AND MINORITY CANDIDATES ARE ENCOURAGED TO APPLY.

MOLECULAR NEUROBIOLOGIST Position in Molecular & Cellular Neuroscience Center for Neuroscience DBS: NPB

UNIVERSITY OF CALIFORNIA, DAVIS

The Center for Neuroscience and the Section of Neurobiology, Physiology and Behavior, in the Division of Biological Sciences, University of California, Davis, invite applications for a Molecular Neuroscientist at the assistant professor level, to begin July 1, 2002. Specialization within any area of molecular neuroscience consistent with the broad goals of the Center for Neuroscience is open. Candidates with strong backgrounds in neural development, control of transcription and molecular bases of cell-cell communication are encouraged to apply. We are particularly interested in faculty who can work in conjunction with other molecular/cellular faculty in the School of Medicine and Division of Biological Sciences, located at UC Davis. Applicants will be expected to demonstrate leadership in their research specialty, obtain extramural funds, and teach molecular/cellular neuroscience courses at both graduate and undergraduate levels. Candidates must possess a Ph.D. or M.D. degree. Applicants should send a letter describing research and teaching interests, a curriculum vitae, copies of representative publications, and the names of at least five persons from whom references will be obtained to: Edward G. Jones, Director, Center for Neuroscience, 1544 Newton Court, University of California, Davis, CA, 95616-8659. All materials must be received by October 31, 2001, to be assured consideration. The search will continue until this position is filled.

The University of California is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences.

University of California, Davis

Center for **N**euroscience

Pharmaceutical

Combining Talents To Expand Our Vision

GlaxoSmithKline joins together the talented people of Glaxo Wellcome and SmithKline Beecham to create the world's leading research-based pharmaceutical company. We're the market leader in four of the five largest therapeutic categories, with unrivaled global marketing strength and powerful R&D and Manufacturing capabilities supporting a research spend of \$4 billion and sales of \$24.9 billion annually. Best of all, the industry's greatest, most innovative minds are now assembled under one name. If your goal is to change the world with innovative medicines, now is the time to join our respected team. We currently have opportunities available in our Gene Interference department, located in Research Triangle Park, NC.

Investigator/Senior Investigator

Research Triangle Park, NC

Using your demonstrated ability to manage both line and project research teams, you will lead scientists that assess the pathophysiologic and therapeutic impact of specific genes as molecular targets using technologies that alter gene/protein activities (e.g. viral vectors expressing normal/mutant proteins, antisense oligonucleotides, and double stranded RNA (RNAi)). You will also serve as a point of contact for these gene modulation studies by establishing and maintaining key interactions with GSK scientists in many disciplines, including disease biology, protein target classes, genetics, genomics, and bioinformatics, and by participating in interdisciplinary project teams. Your Ph.D. or equivalent in Cell/Molecular Biology or related discipline and 6 years of post-graduate research experience, with a research and/or publication record to substantiate this expertise are necessary. Extensive knowledge of cell biology, protein/RNA analysis, cellbased assay development is essential, as is management experience. Pharmaceutical/biotech experience preferred.

GlaxoSmithKline is dedicated to an innovative workplace and supports you with career long opportunities and learning. We offer a competitive benefits and compensation package designed to attract and retain the very best. For confidential consideration and efficient processing, please mail your resume to: GlaxoSmithKline, Job Code: 12390, P.O. Box 13398 or visit our website: www.gsk.com Indicating Job Code is essential. You may also send your resume via e-mail to rqd32722@gsk.com. Principals only, no agencies please.

Developing talent through equality of opportunity, *MIFIDIV*.





University of Alberta Edmonton

Chair, Department of Medical Microbiology and Immunology

The Faculty of Medicine and Dentistry seeks an outstanding individual to provide scientific and academic leadership to a research-intensive Department focussed on Microbiology and Immunology. Current areas of research strength include bacterial and viral pathogenesis, microbial immune evasion strategies, signaling mechanisms in immune effector cells, and autoimmunity (www.ualberta.ca/~mmi). The Department has a dynamic graduate program and a highly-rated medical residency training program. Its academic mission includes basic science and health science professional training at the undergraduate level. The Department offers exceptional physical infrastructure and funding opportunities, and strong collaborative links with the campus-wide Immunology Network, the Provincial Laboratory of Public Health, and the Division of Infectious Diseases in the Department of Medicine. The opportunities in research are enhanced by the Alberta Heritage Foundation for Medical Research and the newly-established Alberta Heritage Foundation for Science and Engineering Research. There are strong faculty facilities of proteomics, bioinformatics, x-ray and NMR structural biochemistry. Additional research space will be available in the Health Sciences Innovation Research Centre to be completed in 2004. This is a unique opportunity for an individual to lead a department offering high quality education and research programs. The University of Alberta is one of Canada's leading research-intensive Universities.

The successful candidate (PhD or MD) will have an internationally recognized research program in the area of infection or immunity, strong leadership and mentoring qualities, and a commitment to academic program development. Previous administrative experience would be an asset. Applicants should reply by September 30, 2001, enclosing a curriculum vitae and the names and addresses of three references to:

Dr. D. Lorne J. Tyrrell, Dean Faculty of Medicine and Dentistry University of Alberta 2J2 WC Mackenzie Health Sciences Centre Edmonton, Alberta, Canada, T6G 2R7

The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIPP).

The University of Alberta hires on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons.





PROFESSOR-RESEARCHER (TWO TENURE-TRACK POSITIONS)

Concours no SP 01-36

INFECTIONS AND IMMUNITY

The Institut national de la recherche scientifique invites applications for two tenure track positions of professor-researchers to develop research projects in the area of Infections and Immunity at its centre INRS-Institut Armand-Frappier—Santé humaine located in the City of Laval, North of Montreal.

These positions, leading to full time tenure, are sought to join a body of over 40 professor-researchers that specialise in highly sophisticated research and teaching programs, namely in the fields of microbiology and immunology.

FUNCTIONS

Within high level multidisciplinary research teams, develop innovative research projects in one of the following areas:

- · Host-pathogen interactions in the context of immune resistance;
- Cellular and molecular aspects of the function and regulation of cells of the immune system.

Secure funding for research activities through external granting agencies and other partners.

Participate in teaching activities, in particular at the M. Sc. and Ph. D. levels, as well as supervise students and research personnel.

QUALIFICATIONS

Ph. D. or equivalent.

At least two years of relevant post-doctoral research experience.

Research work demonstrating autonomy and originality.

Ability to work in a team and through networks.

Demonstrated skills in teaching and supervision at the post graduate level.

Potential to develop major research projects in the medium term and demonstrate ability to obtain funding.

PLACE OF EMPLOYMENT

INRS-Institut Armand-Frappier-Santé humaine

531, boulevard des Prairies, Ville de Laval (Québec)

WORKING LANGUAGE

French is the INRS's working language. Knowledge of English is required.

SALARY

In accordance with the collective agreement in effect at INRS.

All applications will be treated confidentially.

Interested applicants should forward a complete curriculum vitae, a copy of their three most important publications, a 2 to 3 page research proposition, as well as the name of three references with full contact details, no later than October 2nd, 2001, indicating the number of the competition SP 01- 36 to:

The Director INRS-Institut Armand-Frappier—Santé humaine 531, boulevard des Prairies Laval (Québec) H7V 1B7 concours36 @inrs-iaf.uquebec.ca

INRS is an equal opportunity employer. In accordance with Canadian immigration law, priority will be given to citizens or residents of Canada.



Université du Québec Institut national de la recherche scientifique

La science en ACTION pour un monde en ÉVOLUTION



The NASA/Goddard Space Flight Center (GSFC), NASA's designated Center of Excellence for scientific research, maintains a world-class high performance data intensive computing center in support of the Earth and space sciences. GSFC is aggressively seeking applicants for the position of Chief, Earth and Space Data Computing Division (ESDCD), who will have overall responsibility for the conduct, management, planning and implementation of Goddard's Earth Science computing center serving NASA supported scientists nationally. In the performance of these responsibilities, the Division chief manages three branches, Science Computing, Science Communications Technology, and Applied Information Science.

This is a uniquely exciting time for ESDCD as information science and technology are emerging as principal efforts within NASA and at GSFC. A joint acquisition of a large new computational facility is planned in support of several major NASA/GSFC programs. The High Performance Computing and Communication Earth and Space Science Project (HPCC/ESS) is entering a new phase of building computational science communities to accomplish NASA's challenging mission objectives. New opportunities for collaboration with the University community are being established.

The successful applicant will join the Earth Sciences Directorate and be responsible for providing a vision for information science in the pursuit of NASA goals, programmatic and organizational management, development and implementation of functional responsibilities, personnel management, overseeing the safety, security, and quality goals, management of budgetary actions, longrange technical planning, implementation and operations.

The selectee reports to the Director of the Earth Sciences Directorate and participates as a peer with Science Lab Chiefs and other staff in directorate business, planning and implementation efforts.

Candidates with experience in Earth and space computational science, management of large-scale computing and mass storage systems, software engineering, science data visualization, information systems, and ground and space telecommunications systems are encouraged to apply.

This is a Senior Executive Service (SES) position in the Federal Government. Compensation for this position ranges from \$120,261 to \$133,700 per annum, including locality pay. The salary is commensurate with the experience of the successful candidate.

Applicants must submit either an "Optional Application for Federal Employment" (OF- 612), an "Application for Federal Employment" (SF-171), or a resume. In addition, applicants should submit a professional vita (containing a list of refereed publications), and a cogent (approximately 1000 words) statement of career interests. The OF-612 and SF-171 can be accessed using the following URL: http://ohr.gsfc.nasa.gov/forms

Applications should be forwarded:

NASA/Goddard Space Flight Center Human Resources Operations Office, Code 113 ATTN: Ms. Barbara Hamilton Greenbelt, MD 20771

For more information about position requirements and Applications procedures, please call Ms. Hamilton at (301) 286-9247 or (301) 286-7918 (TDD); and for scientific questions, please call Dr. Franco Einaudi, director of Earth Sciences Directorate, at (301) 614-6786. Applications must be submitted by October 31, 2001.

Please note that this is not a formal Senior Executive Service vacancy announcement where candidates address managerial and technical qualifications. We anticipate such an announcement will follow at a later date.

Equal Opportunity Employer. U.S. Citizenship Required.



Director of Conservation Science

For more than three decades, World Wildlife Fund (WWF) has led international efforts to save life on earth. We seek a Director for our Conservation Science Program to oversee, manage, and coordinate the tools used to develop conservation strategies around the world. The Director will report to WWF's Chief Scientist, and will have the opportunity to translate new ideas in the field of conservation biology into conservation practices; bring new approaches to landscape scale conservation; assist in species and habitat restoration programs around the world; and act as spokesperson for WWF's Conservation Science program. The successful candidate will have an advanced degree, (Ph.D preferred) in a relevant area of natural resources and 5 years of progressively responsible experience in the conservation field. Effective communication and management skills also required.

AA/EOE Women and minorities are encouraged to apply. Please send cover letter and resume by fax to (202) 293-9211 or by mail to World Wildlife Fund, Human Resources Dept. #22034S, 1250 24th Street, NW, Washington, DC 20037.

For more info: www.worldwildlife.org.

NO TELEPHONE INQUIRIES PLEASE.



Director, Division of Viral Products

The FDA, Center for Biologics Evaluation and Research, Office of Vaccines Research and Review is searching for a Director for its Division of Viral Products. The Director is responsible for managing a staff of approximately 75 scientists and support staff in assuring the safety and effectiveness of vaccines used in the prevention of viral diseases. US Citizenship is required. Applicants possessing an M.D., PhD. or M.D./PhD. are highly desired. Applicants must have experience in managing a broad scientific research or regulatory program; a demonstrated ability to deal effectively with high-level governmental officials, the scientific and academic communities, medical and health-related organizations, representatives of the regulated industry and others; and the ability to implement equal employment opportunity programs. For additional information including salary and benefits, please contact Linda McGahey at 301-827-0655 by November 2, 2001 and/or log on to www.fda.gov/cber/inside/vacancy.htm, select Director, Division of Viral Products.

This Agency Provides Reasonable Accommodations to Applicants with Disabilities. Equal Opportunity Employer. Smoke Free Environment.



The Center for Biologics Evaluation and Research is soliciting applications for 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 ex-

change 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 bio-medical, 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 (EOY-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.

This Agency Provides Reasonable Accommodations to Applicants with Disabilities Equal Opportunity Employer Smoke Free Environment

> Abgenix, one of the most exciting biopharmaceutical companies in the San Francisco Bay Area, is focused on the development & commercialization of therapeutic antibodies to treat life-threatening diseases. The Process Sciences department serves a critical function in translating antibody discoveries into manufacturable products. We're seeking an experienced scientist to lead and expand the Biopharmaceutics group within Process Sciences.

Senior Scientist/Group Leader **Biopharmaceutics**

The selected candidate will primarily design liquid and lyophilized formulations for recombinant antibodies, develop methods for controlled and efficient delivery of antibody products into patients, and transfer manufacturing processes for antibody products to cGMP facilities. Additionally, he/she will hire and supervise lab personnel, evaluate/purchase equipment, and establish goals for technology development consistent with product and manufacturing needs. Reporting to the Vice President of Process Sciences, he/she will be seen as an expert at the company, representing the company's advances in antibody delivery to management and in scientific forums. The position calls for a Ph.D. or equivalent in physical biochemistry, pharmaceutics or a related scientific discipline, with a minimum of 5 years' relevant experience (beyond post-doc work), including managementlevel responsibilities in a related industry or academic environment. Significant experience in pharmaceutical research and development of macromolecules, including recombinant alvcoproteins is essential.

We offer a competitive compensation/benefits package & stock options. For consideration, please forward your resume to: jobs@abgenix.com, referencing Job Code: 1A093N-SCI. To learn more about Abgenix and see a list of all our open positions, please visit our website at www.abgenix.com. We are an equal opportunity employer.



Building a Biotech Powerhouse

www.abgenix.com

POSITIONS OPEN

TENURE-TRACK SENIOR/ JUNIOR APPOINTMENTS Genetics

University of Richmond

The Department of Biology at this highly selective, private, primarily undergraduate university invites applications for two tenure-track positions with at least one appointment at a senior level (ASSOCI-ATE or FULL PROFESSOR). Each successful candidate will be expected to maintain a research program that combines genetic analysis and molecular biology, attracts extramural funding, and actively engages undergraduates. Teaching excellence that includes participation in the introductory genetics course and an upper-division elective in area of specialization are expected. We seek compelling applications from advanced or mid-career Biologists who have distinguished records of accomplishment as well as from especially strong candidates at the junior level (a Doctoral degree, postdoctoral expe-rience, and a record of research productivity are required). Applicants should submit curriculum vitae, three recent publications, separate statements of (1) research interests and plans and (2) teaching experience and plans, and should have three letters of reference sent to: Dr. W. John Havden, Department of Biology, University of Richmond, Rich-mond, VA 23173. For more information on the Department, resources, and teaching assignment, see website: http://www.richmond.edu/ academics/a&s/biology/index.html. Review of applications will begin November 1, 2001, and continue until the positions are filled. Anticipated starting date of August 2002. The University of Richmond is an Equal Opportunity/Affirmative Action Employer. We are committed to increasing the diversity of our faculty and strongly encourage applications from women and minorities.

University of Maryland Baltimore County (UMBC) seeks applicants for a tenure-track ASSIS-TANT or ASSOCIATE PROFESSOR position in the Department of Chemistry and Biochemistry starting fall 2002. Candidates will be expected to develop a vigorous research program in macromolecular X-ray crystallography/structural biology and teach at the graduate and undergraduate levels. The Department has 18 tenured or tenure-track faculty and Ph.D. and M.S. programs in both chemistry and biochemistry. This appointment will be supported with X-ray crystallographic instrumentation and other laboratory needs and will complement existing structural research programs in the Department that employ NMR, rapid spectroscopy, and mass spectrometry. Applicants should submit curriculum vitae, a short description of future research plans, and have three letters of reference sent to: Dr. Michael Summers, Chair of the Search Committee, Department of Chemistry and Biochemistry, University of Maryland Baltimore County, Baltimore, MD 21250. Applications will be accepted until the position is filled. UMBC is an Affirmative Action/Equal Opportunity Employer. We encourage applications from minorities, women, and individuals with disabilities.

POSTDOCTORAL POSITION Cytoskeletal Signaling and Protein Phosphorylation Case Western Reserve University School of Medicine

Position available to participate in biochemical and cellular studies on protein kinases and phosphatases that regulate cytoskeletal organization and myosin function in *Dictyostellium*. Individuals with experience in protein biochemistry, signaling pathways, and/or molecular biology are particularly encouraged to apply. See *Curr. Biol.* **11**:708-713, 2001; *JBC* **276**: 6853-6860, 2001. Please send curriculum vitae and names of three references to: Dr. Thomas Egelhoff, Department of Physiology and Biophysics, Case Western Reserve University School of Medicine, Cleveland, OH **44106-4970**. FAX: **216-368-1693; e-mail: tte@po.cwru.edu; website: http://** *physiology.cwru.edu. Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITIONS Signal Transduction and/or Transcription Pathogenesis, Immunology, Virology

The Department of Molecular Genetics, Biochemistry, and Microbiology has well-established research programs in multiple areas and seeks to attract faculty at the tenure-track **ASSISTANT PROFESSOR** level with research in certain of these areas.

The Department consists of 26 faculty encompassing such areas as gene regulation and development, signal transduction, ion transport, immunology, pathogenic mechanisms, cancer biology and structural biology. Our structural biology program has a world-class NMR facility with five instruments including one of 800 MHz. The Department and college maintain a number of core facilities unparalleled in most institutions. These include a BL3 containment facility for work with pathogens, transgenic and knockout mouse cores, DNA synthesis and sequencing facilities, gene microaray analysis, proteomics, and bioinformatics. The Department maintains an active graduate program with 45 Ph.D. students.

For further information, please see website: http://www.molgen.uc.edu. Applicants should submit curriculum vitae, brief description of research, and the names of three qualified references to: Jerry B. Lingrel, Ph.D., Professor and Chair, Department of Molecular Genetics, Biochemistry, and Microbiology, P.O. Box 670524, Cincinnati, OH 45267-0524.

Affirmative Action/Equal Opportunity Employer.

FISH BIOLOGIST/OCEANOGRAPHER

The Department of Biology, College of Charleston, invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level to begin August 2002. Candidates must possess a Ph.D. in the biological sciences, a strong commitment to teaching, and an active research program with the potential for undergraduate involvement. We are seeking a Biologist who can teach fish biology and oceanography with occasional participation in introductory biology courses possible. The College of Charleston is a public liberal arts institution of 10,000 students. The College's primary goals are teaching and research excellence. In addition to its undergraduate programs, the Department offers M.S. degrees in marine biology and environmental studies. Information about the Biology Department is available at website: http:// www.cofc.edu/~biology. Applicants should submit curriculum vitae; statement of teaching and research interests; copies of relevant publications; and three letters of reference by October 31, 2001, to: Chair, Department of Biology, Fish Biologist Search Committee, College of Charleston, Charleston, SC 29424. The College of Charleston is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

TENURE-TRACK POSITION MICROBIOLOGY

Indiana University School of Medicine, N.W. Center for Medical Education, is seeking applicants for a tenure-track position as ASSISTANT/ASSOCI-ATE PROFESSOR. Successful candidate will participate in teaching, research, and service missions of the Center. Strong commitment to medical student teaching in a problem-based curriculum in microbiology is required. Candidate will be expected to develop and maintain an innovative, externally funded re search program. Preference will be given to candidates with ability to attract extramural funding and whose research expertise complements ongoing pro-grams. Applicants must have a Ph.D. and/or M.D. or equivalent degree. Send curriculum vitae, description of research, statement of teaching philosophy, and names and contact information of three references to: William Baldwin, Ph.D., Assistant Dean and Director, IU School of Medicine, 3400 Broadway, Gary, IN 46408. Equal Opportunity/Affirmative Action Employer; Minority/Female/Disabled.

POSITIONS OPEN

GRADUATE AND POSTDOCTORAL TRAINING FELLOWSHIPS IN TOXICOLOGY University of Michigan

Postdoctoral and Predoctoral Research Training Fellowships are available through an NIEHS/NIH sponsored training program in environmental toxicology. Eligibility for NIH Fellowships includes U.S. citizenship or permanent resident status. Postdoctoral candidates must have a Ph.D. or equivalent at the time of appointment. Additional support is available through re search grants of the program faculty. Research areas of the faculty include molecular, genetic, cell signaling, metabolic, and oxidative stress mechanisms of toxicity with respect to reproductive, developmental, neural, and immune systems as well as cancer research, microand nanosensor development, human exposure assessment, and environmental and occupational disease epidemiology. To apply for a Training Fellowship, submit (1) cover letter describing motivation for obtaining postdoctoral training in toxicology and a plan for postdoctoral training and career goals, (2) curriculum vitae, (3) copy of graduate transcripts, and (4) three letters of recommendation. Details on the program faculty and Fellowships may be found on our website: http://www.sph.umich.edu/etox/. For further information, write: Toxicology Program, Department of Environmental Health Sciences, 1420 Washington Heights, Ann Arbor, MI 48109-2029. E-mail: toxicology@umich.edu; Telephone: 734-764-5410. The University of Michigan offers a dynamic and diverse scholastic community committed to the inclusion of underrepresented minorities. Applicants of all ethnic and enhural backgrounds are strongly encouraged to apply.

ASSOCIATE PROFESSOR/PROFESSOR PHYSIOLOGY

Outstanding Scientists employing modern cellular and molecular approaches to investigate physiological processes are invited to apply for a tenuretrack position at the Associate Professor/Professor level. Candidates must possess a Ph.D., M.D., or equivalent degree. A strong record of continuous research productivity and funding including current support from national sources is required. Individuals with outstanding credentials in all areas of physiological research will be considered. The appointee will be expected to continue a nationally recognized research program supported by extramural funding and participate in medical and graduate teaching. Excellent opportunities exist within the Department and institution for collaboration. Salary, start-up resources, and laboratory space are competitive and commensurate with experience. Applicants should send curriculum vitae; a brief description of current and future research interests; three representative reprints; and the names, addresses, telephone numbers, and e-mail addresses of three references to: Dr. Sinya Benyajati, Department of Physiology, Col-lege of Medicine, The University of Oklahoma Health Sciences Center, P.O. Box 26901, Okla-homa City, OK 73190, FAX: 405-271-3181; email: siribhinya-benyajati@ouhsc.edu; website: http://w3.ouhsc.edu/physiology. Electronic ap-plications are welcome. Review of applications will begin September 15, 2001. Anticipated starting date: July 2002. OUHSC is an Equal Opportunity Institution.

POSTDOCTORAL POSITION available immediately to study proton ATPases and ion transport using fluorescence spectroscopy and spectral imaging/contocal microscopy in relation to angiogenesis and tumor biology. Experimental models include cultured endothelial and cancer cells as well as mice models. Send curriculum vitae and names of three references to: Raul Martínez-Zaguilán, Ph.D., Associate Professor, Department of Physiology, Texas Tech University Health Sciences Center, 3601 Fourth Street, Lubbock, TX 79430. E-mail: phyrmz@physiology.ttuhsc.edu. Equal Opportunity/ Affiniative Action Employer.

Cancer Genetics Tenure-Track Faculty Position

The Section of Cancer Genetics is recruiting a tenure track Assistant Professor to establish an outstanding research program in the area of cancer genetics. Individuals working in human or mouse systems to study the pathways altered in cancer are encouraged to apply. The department has strong ongoing programs in human and mouse genetics, signal transduction, cell cycle, DNA repair, and development. We offer a very attractive recruitment package, an active graduate and post-doctoral training program and the unmatched scientific environment of the Texas Medical Center. Applicants should hold Ph.D. and/or M.D. degrees and be able to demonstrate their potential as independent scientists. Those interested should send a curriculum vitae, a two-page research summary, and the names and addresses of at least three references before **November 30, 2001** to:

Guillermina Lozano, Ph.D. Chair of the Search Committee Department of Molecular Genetics, Box 11 The University of Texas M.D. Anderson Cancer Center 1515 Holcombe Blvd., Houston, TX 77030



The University of Texas M. D. Anderson Cancer Center values diversity in its broadest sense. Diversity works at M. D. Anderson. EEO/AA Smoke-free environment.

WAYNE STATE UNIVERSITY

Cell / Developmental Biologists

The Department of Biological Sciences at Wayne State University invites applications for two faculty positions at the Assistant, Associate or Full Professor level (tenured/tenure-track). We are especially interested in individuals who are using model organisms or cells to study basic mechanisms of cell function and/or development. Individuals whose research programs complement and extend the Department's strengths in cell signalling, membrane function and gene regulation are especially encouraged to apply. However, outstanding candidates in other areas will be given equal consideration. The Department is housed in the six-story Biological Sciences Building, which contains modern, spacious research laboratories and outstanding facilities for microscopic imaging, cell culture, DNA microarray analysis and DNA sequencing. Vertebrate and invertebrate animal facilities are also available. Wayne State University is a major participant in the 20 year, \$1 billion Michigan Life Sciences Corridor research initiative. Applicants must have a Ph.D. degree, postdoctoral experience and an outstanding record of research achievement. Successful applicants are expected to establish and maintain externally funded research programs, and participate in graduate and undergraduate education. See http://bio.wayne.edu for additional information.

Applicants should submit their curriculum vitae, a statement of research plans, and have three letters of reference sent to: Chair, Faculty Search Committee, Department of Biological Sciences, Wayne State University, 5047 Gullen Mall, Detroit, MI 48202. The search will remain open until the positions are filled, but review of applications will begin immediately.

Wayne State University is an Affirmative Action/ Equal Opportunity Employer. Women and members of minority groups are especially encouraged to apply.

Director of the Fellow Recruitment and Career Development Office Division of Intramural Research National Institute of Diabetes and Digestive and Kidney Diseases

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), National Institutes of Health (NIH) invites applications for a Title 42 Staff Scientist to serve as Director of the Fellow Recruitment and Career Development Office. The Office will have responsibility for the approximately 600 fellows who are training within the NIDDK intramural research program. The incumbent will perform the following duties: develop and direct a fully integrated program for the research training and career development of pre-doctoral and post-doctoral fellows including training in scientific communication, preparing curricula vitae and grant writing, and providing career counseling; develop and conduct a fellow recruitment process; serve as ombudsman for fellows and their mentors; develop and implement a fellow orientation program; monitor the performance review process. A committee composed of senior scientists, junior scientists, post-doctoral fellows and pre-doctoral fellows will advise the Director.

The Fellow Recruitment and Career Development Office will be located on the main intramural campus of the NIH in Bethesda, Maryland, a suburb of Washington, DC.

Candidates must have a Ph.D., M.D., or equivalent degree in the biomedical sciences. Interested applicants should send a curriculum vitae and three letters of reference to:

Ms. Kay Place Office of the Director Division of Intramural Research Building 10, Room 9N222 NIDDK, NIH Bethesda, MD 20892-1818

NIH is an Equal Opportunity Employer.



POSITIONS OPEN

FACULTY POSITION IN ENERGY

The Department of Mechanical Engineering at Massachusetts Institute of Technology invites applications for a faculty position in the area of energy and power systems engineering with emphasis on new energy technologies such as fuel cells and renewable energy production. The position will be part of the Department's formation of a new laboratory focused on future energy needs and environmental impacts. An appointment as ASSISTANT PROFESSOR or ASSOCIATE PROFESSOR without tenure is desired, although more senior applicants may be considered. Applicants must hold a Doctorate in mechanical engineering or a related discipline and must have demonstrated an ability to carry out outstanding research and a strong record of or promise for exceptional teaching.

Applicants should send curriculum vitae, a one- or two-page statement of research interests, one or two representative publications, and complete contact information for at least three references to the following address:

Chair, Energy Faculty Search Department of Mechanical Engineering Room 3-173 Massachusetts Institute of Technology Cambridge, MA 02139-4307

The deadline for applications is December 31, 2001. MIT is an Equal Opportunity/Affirmative Action Employer. Women and underrepresented minorities are especially encouraged to apply.

TENURE-TRACK FACULTY POSITION: cardiovascular genetics/genomics. The Division of Cardiology at Columbia University, College of Physicians and Surgeons, is seeking M.D. and/or Ph.D. candidates for an immediate opening as tenure-track ASSISTANT/ASSOCIATE PROFESSOR in cardiovascular genetics/genomics. The generous startup package includes committed resources for supporting personnel, research support, and dedicated research space. Candidates should have a well-developed research focus/record in cardiovascular genetics/genomics that complements existing research interests in the Cardiovascular Division. The Divisioin currently maintains active/NIH-funded research programs in vascular biology, diabetes, cardiac metabolism, molecular cardiology, and arrhythmia. Broader available resources include the Columbia University Genome Center and the medical center (which serves a large, ethnically diverse patient population), with special emphasis on patients with arrhythmia, congenital heart disease, heart failure, arteriosclerosis, and stroke. Candidates should send curriculum vitae with names of references and a cover letter outlining their research interests to: Dr. David J. Pinsky, Chair, Cardiovascular Genetics/Genomics Search Committee, Columbia University, Department of Medicine, 630 West 168th Street, New York, NY 10032. E-mail: djp5@columbia.edu. Columbia University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL AND PREDOCTORAL POSITIONS to study global regulation in the archaeon *Methanococcus maripaludis*, an ideal laboratory model species. This collaborative project will take place at the University of Washington, University of Georgia, and Yale University and will use expression arrays, proteomics, genetics, and other techniques to determine global regulatory mechanisms and networks. Contact information:

John Leigh, Department of Microbiology University of Washington Seattle, WA 98195-7242 E-mail: leighj@u.washington.edu Barny Whitman, Department of Microbiology University of Georgia, Athens, GA 30602-2605 E-mail: whitman@arches.uga.edu Dieter Soll, Department of Molecular Biophysiology and Biochemistry, Yale University P.O. Box 208114, 266 Whitney Avenue New Haven, CT 06520-8114 E-mail: soll@trna.chem.yale.edu POSITIONS OPEN



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

University of Pittsburgh School of Medicine has committed to enhance further its basic research faculty. We seek two research-oriented individuals to join our well-funded faculty as **ASSISTANT** or **ASSO-CIATE PROFESSORS**. The desired candidates will have an M.D. or Ph.D. from any subdiscipline of the life sciences including pharmacology, biochemistry, molecular biology, and neurobiology. We are especially interested in individuals with outstanding communication skills who will complement our existing strengths in ion channels, G protein-mediated signaling, cell death, drug discovery, and drug resistance. Candidates using structural approaches are encouraged to apply.

Successful candidates will be expected to develop outstanding independent research programs. Very attractive start-up packages have been committed for the successful candidates. Interested applicants should provide a one-page statement on their proposed research, curriculum vitae, and the names and contact information of three professional references. The application deadline is November 1, 2001. Application should be sent to:

Faculty Search Committee Department of Pharmacology University of Pittsburgh, School of Medicine Chair, Search Committee W1340 Biomedical Science Tower Pittsburgh, PA 15261

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

DISTINGUISHED VISITING SCHOLAR. NOAA's Great Lakes Environmental Research Laboratory (GLERL) is pleased to announce the initiation of the GLERL Distinguished Visiting Scholar program. Appointments for up to 12 months are open to candidates with at least five years of postdoctoral exerience in all areas of research complementary to the laboratory's current programs including ecosystem and food web dynamics, nonindigeneous species, aquatic contaminants and biogeochemistry, hydrodynamics and physical processes, climate change, and water resources (website: http://www.glerl.noaa. gov). Please submit a brief (two-page) proposal describing the planned research, collaborations, proposed products, and resources required along with curriculum vitae to:

Peter Landrum NOAA GLERL 2205 Commonwealth Boulevard Ann Arbor, MI 48105

Submission must be received by Friday, November 2, 2001. Preference will be given to candidates who can collaborate with GLERL's Principal Investigators. For more information, contact: Peter Landrum; Telephone: 734-741-2276; e-mail: landrum@glerl.noaa.gov.

POSTDOCTORAL POSITIONS

Two positions funded by the Cardiovascular Center of Excellence are available to study the signal transduction mechanisms related to the effect of nitric oxide and protein tyrosine phosphatases on migration, proliferation, and collagen synthesis by vascular smooth muscle cells. Our projects address basic science questions but also have relevance to clinical problems. Experience in the techniques of molecular biology is essential. Send curriculum vitae and the names of three references to: Dr. Aviv Hassid, Department of Physiology, University of Tennessee, 894 Union Avenue, Memphis, TN 38163. E-mail: hassid@bellsouth.net. FAX: 901-448-7126.

POSITIONS OPEN

FACULTY POSITION CELLULAR AND MOLECULAR NUTRITION

The U.S. Department of Agriculture/ARS Children's Nutrition Research Center (CNRC), Department of Pediatrics at Baylor College of Medicine, invites applications from qualified candidates for a TENURE-TRACK or TENURED FACULTY position in the area of cellular and molecular nutrition. Level of appointment will be consistent with the candidate's qualifications. Candidates should have a record of achievement through publications in peer-reviewed journals and successful competition for extramural funding. Applicants conducting research on the nutritional regulation of protein synthesis at the molecular level, nutrient regulation of cell and organ differentiation, and growth in embryonic and fetal development are preferred. In addition to a strong, independent research program, the successful candidate will be expected to have significant potential for research collaboration with existing research programs within the CNRC. Applications should include full curriculum vitae, a statement of research interests, and the names and addresses of three professional references. Address applications to: Dr. Dennis Bier, Director, USDA/ARS Children's Nutrition Research Center, Baylor College of Medicine, 1100 Bates Street, Houston, TX 77030. The deadline for applications is December 1, 2001. Baylor College of Medicine is an Equal Access/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCI-ATE, MOLECULAR BIOLOGIST, GS-11: U.S. Department of Agriculture, ARS, Clay Center, Nebraska. The Animal Health Research Unit seeks a Postdoctoral Research Associate with an interest in the molecular basis for variation in infectious disease expression. This position is part of a well-funded, multicenter program utilizing novel approaches to identify host genes required for permissive viral infection; characterize allelic variation in genes; and determine associations between extant genetic variations with susceptibility to viral infection. Successful applicants will have a Ph.D. in molecular biology, genetics, microbiology, or biochemistry (awarded within the past four years) with demonstrated experience in molecular techniques including current computational methods for genomic sequence analysis. Salary commensurate with experience (\$43,326 to \$56,322 per year). Benefits available. Applicants must be U.S. citizens, of a country in a defense treaty with the United States, or of a country specifically exempted from restricting legislation. Send curriculum vitae and the names of three references to: Dr. William W. Laegreid, MARC, ARS, USDA, P.O. Box 166, Clay Center, NE 68933. E-mail: laegreid@email.marc.usda.gov. USDA/ARS is an Equal Opportunity Employer.

CAREER IN OPTOMETRY, OPTOMETRIC RESEARCH, OR TEACHING

The New England College of Optometry offers a unique program for those with a Doctorate in the sciences: biology, chemistry, physics, psychology, etc. Candidares have the opportunity to obtain the Doetor of Optometry (O.D.) degree in 27 months. The program begins annually in June. Employment opportunities exist in clinical practice, industry, opto metric faculty positions, and research. Contact: Admissions Office, Department S, 424 Beacon Street, Boston, MA 02115. Telephone: 1-800-824-5526; e-mail: admissio@ne-optometry.edu; website: http://www.ne-optometry.edu. Application deadline: March 1, 2002.

POSTDOCTORAL POSITION available to study mechanisms of diabetic nephropathy during renal development. Experience in kidney field and cell and molecular biology techniques absolutely essential. Send curriculum vitae and three references to: **Dr. Yashpal S. Kanwar, Northwestern University, 303 East Chicago Avenue, Chicago, IL 60611. E-mail: y-kanwar@northwestern.edu**.



THE CLEVELAND CLINIC

Director Translational and Basic Research Program In Human Herpesviruses

The Cleveland Clinic Foundation seeks a Director for a newly formed program in translational and basic research in human herpesvirus infections to lead and complement our existing mature clinical trials and applied laboratory research programs in this area. The successful physician scientist or Ph.D. candidate will be an outstanding and active researcher in herpes virology with an established research program that has peer-reviewed extramural funding. The candidate will hold a senior staff position in the newly established Department of Virology in The Lerner Research Institute of The Cleveland Clinic Foundation. This position offers an exceptional opportunity to interact and foster interdisciplinary research with physicians in the Transplant Center, Department of Infectious Diseases, and the Section of Microbiology within The Cleveland Clinic Foundation. The Foundation has established high volume transplant programs in all major organs, as well as in HIV infection

The Cleveland Clinic provides excellent start-up and benefit packages. Interested individuals should submit a curriculum vitae, summary letter outlining research interests, and names of three referees to:

Amiya K. Banerjee, Ph.D., Chairman Department of Virology, The Lerner Research Institute The Cleveland Clinic Foundation 9500 Euclid Avenue, NN10 Cleveland, Ohio 44195

The Cleveland Clinic Foundation is an equal opportunity employer. Women and minorities are encouraged to apply.

GLOBAL OPPORTUNITIES

BEN-GURION UNIVERSITY OF THE NEGEV

Requires:

Director The Jacob Blaustein Institute for Desert Research, Sede Boger Campus

Employer: Ben-Gurion University of the Negev **Job Description:** Ben-Gurion University of the Negev seeks a director for the Jacob Blaustein Institute for Desert Research (BIDR). The BIDR is a multidisciplinary research institute comprising six departments with 60 faculty members and over 150 graduate students who study a wide range of desert and desertification subjects. The BIDR

includes the Albert Katz International School for Desert Studies and the Blaustein Center for Scientific Cooperation. It also serves as a European Commission large-scale facility for scientific research in Israel. See http://www.bgu.ac.il/BIDR/ for details.

Position requirements: Qualifications for a tenured full professorship. Understanding of the broad spectrum of academic and applied research and a distinguished record of scholarly accomplishments; commitment to high quality in the sciences and in professional education.

Preferred: Administrative experience in a complex academic organization: experience in strategic planning, program development and fund raising

Send nominations and applications by October 1st, 2001 to: Prof. Zvi Priel, Chairman Search Committee for BIDR Director Department of Chemistry Ben-Gurion University of the Negev P.O. Box 653 Beer-Sheva, Israel





The NASA/Goddard Space Flight Center invites applications for the Senior Executive Service position of Chief of the Laboratory for Hydrospheric Processes, located in Greenbelt, Maryland.

The Chief of the Laboratory for Hydrospheric Processes is responsible for planning, leading, directing, implementing and assessing a large range of basic and applied research dedicated to advancing knowledge and understanding the Earth's oceanic, cryospheric and hydrologic processes. This mission is accomplished through the development of comprehensive observing and modeling systems. The overall goal is to develop the capability to characterize, understand and predict the state of the Earth's hydrospheric systems.

The Laboratory's main science themes are: ocean physics, circulation processes, and models; hydrologic sciences, and the global water cycle; marine ecosystems, biogeochemistry, biological primary productivity, and the global carbon cycle; global land ice and sea ice cover and dynamics; coupled ocean-atmosphere-land-ice climate studies; and development of multispectral microwave and optical techniques and instrumentation.

The Chief of the Laboratory for Hydrospheric Processes is responsible for leading and directing 63 civil servants and technically directing approximately 160 contractor support staff. The incumbent reports to the Director of Earth Sciences, participates in the development and implementation of the Earth science mission of the Goddard Space Flight Center, and is expected to interact extensively with NASA's Earth Science Enterprise. The Laboratory Chief is responsible for encouraging collaborative activities with other NASA organizations as well as with universities, other Government agencies, and private scientific institutions. The Laboratory Chief performs individual research and may act as a principal investigator, a co-investigator, and/or a project scientist on NASA missions, in addition to being the supervisor for personnel within the Laboratory.

The incumbent must be recognized as an authority in an area of hydrospheric science that is relevant to the primary activities of the Laboratory. The incumbent should also possess demonstrated executive management abilities commensurate with the management responsibilities of this position. Compensation for this position ranges from \$120,261 to \$133,700 per annum, including locality pay. Salary will be commensurate with the incumbent's experience.

Applicants must submit either an "Optional Application for Federal Employment" (OF 612), an "Application for Federal Employment" (SF-171), or a resume. In addition, applicants should submit a professional vita (containing a list of refereed publications), and a cogent (approximately 1000 words) statement of career interests. The OF-612 and SF-171 can be accessed using the following URL: http://ohr.gsfc.nasa.gov/forms

Applications should be forwarded to: NASA/Goddard Space Flight Center Human Resources Operations Office, Code 113 ATTN: Ms. Barbara Hamilton Greenbelt, MD 20771

For more information about position requirements and application procedures, please call Ms. Hamilton at (301) 286-9247 or (301) 286-7918 (TDD); and for scientific questions, please call Dr. Franco Einaudi, Director of the Earth Sciences Directorate, at (301) 614-6786. Applications must be submitted by October 31, 2001.

Please note that this is not a formal Senior Executive Service vacancy announcement where candidates address managerial and technical qualifications. We anticipate such an announcement will follow at a later date.

Equal Opportunity Employer. U.S. Citizenship Required.



POSITIONS OPEN

ASSISTANT PROFESSOR DEPARTMENT OF PHARMACOLOGY AND PHYSIOLOGY University of Rochester

The Department of Pharmacology and Physiology at the University of Rochester Medical Center seeks applications for a full-time, tenure-track position at the rank of Assistant Professor. Outstanding candidates qualified for higher ranks will also be considered. Competitive applicants will have a Ph.D. or equivalent degree, postdoctoral training, and a clear record of research productivity and creativity. We are especially interested in applicants that apply cuttingedge approaches to fundamental questions in neurodegeneration/regeneration or cardiovascular disease, although exceptional candidates working in other areas are also encouraged to apply. The successful candidate will join a highly interactive faculty with research interests in intra- and intercellular signal transduction, cell death, vascular biology, neuropharma-cology, and ion channel physiology. He or she will receive a competitive start-up package and will be expected to develop a dynamic and well-funded research program and to contribute to graduate and medical teaching programs. The University of Rochester Medical Center is undergoing a major expansion of research efforts in aging and developmental biology, cardiovascular research, vaccine biology, and genetics. Additional information about the University, the Department, and faculty research interests can be found at website: http://www.urmc.rochester. edu/phph/

Please send curriculum vitae, a brief statement of future research plans, reprints of three key publications, and the names and addresses (including email) of at least three references to: Robert S. Freeman, Ph.D., Search Committee, Department of Pharmacology and Physiology, Box 711, University of Rochester Medical Center, 601 Elmwood Avenue, Rochester, NY 14642. Review of applications will begin October 1, 2001, and continue until the position is filled The University of Rochester is an Equal Opportunity/Affirmative Action Employer. Applications from qualified women and undereprescuted minorities are encouraged.

ASSISTANT PROFESSORSHIP PROTEIN CRYSTALLOGRAPHY

The Department of Chemistry of the University of Louisville invites applications for a tenure-track Assistant Professorship in protein crystallography beginning with the fall 2002 semester. Ph.D. required. The Department and University are aggressively expanding their presence in structural biology. There are close existing ties and ample opportunities for collaboration with faculty in the College of Arts and Sciences and the Medical School. We are particularly interested in candidates who can initiate the macromolecular crystallography program and contribute to teaching in the physical chemistry division. Review of applications will begin December 3, 2001, and continue until the position is filled. Send curriculum vitae, research plans, and have three letters of recommendation sent to: **Professor Richard Wittebort**, **Crystallography Search Committee**, **Department** of **Chemistry**, **University of Louisville**, **Louisville**, **KY 40292**. Women, African Americans, and other minorities are encouraged to apply.

ACADEMIC RHEUMATOLOGIST

The Section of Rheumatology of the Yale School of Medicine is searching for a Physician/Scientist (M.D. or M.D./Ph.D.) to join the Section as an **ASSIST**-**ANT PROFESSOR**. Candidates will be expected to develop a laboratory research program and to participate in the clinical and educational activities of the Section. Interested individuals should send their curriculum vitae and bibliography by October 15, 2001, to: Joe Craft, M.D., Section of Rheumatology, Department of Medicine, Yale School of Medicine, P.O. Box 208031, New Haven, CT 06520-8031. Yale is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to reply.

THE KATHARINE ORDWAY CHAIR OF ECOSYSTEM CONSERVATION

The University of Florida invites applications for the Katharine Ordway Chair of Ecosystem Conservation in the Florida Museum of Natural History. The Ordway Chair carries with it an Eminent Scholar Professorship and Curatorship. A substantial endowment supports the Chair, providing operating and technical support. The successful candidate will be an experienced scholar of international reputation who will work with faculty and students to develop a broad, world-class program of ecological research that complements the existing biodiversity and conservation programs of the Florida Museum of Natural History and the University of Florida. Applicants should send a letter of interest and curriculum vitae along with names and contact data for five references by December 1, 2001, to:

Dr. S. David Webb, Ordway Search Chair Florida Museum of Natural History P.O. Box 117800 (Museum Road) University of Florida Gainesville, FL 32611-7800 Telephone: 352-392-1721 FAX: 352-392-8783

ZEBRAFISH DEVELOPMENTAL BIOLOGY University of Massachusetts Amherst

Applicants are invited for a tenure-track ASSIST-ANT PROFESSORSHIP in the Department of Biology (website: http://www.bio.umass.edu/ biology). We are particularly interested in creative Researchers who use the zebrafish model system to study basic problems in a variety of areas including development, neurobiology, cell differentiation, and signaling. The appointee will join an active zebrafish group that includes Dr. Rolf Karlstrom, who studies patterning and axon guidance in the zebrafish forebrain. We have an excellent zebrafish facility that will be expanded to accommodate the new position. Candidates are expected to develop a vigorous, funded research program and be committed to graduate and undergraduate education. A Ph.D. and postdoctoral experience are required. To apply, send curriculum vitae, statement of research interests and teaching philosophy, and arrange for three letters of recommendation to be sent to: Chair, Zebrafish Development Search Committee, Search Number R14097, Biology Department, Morrill Science Center, University of Massachusetts, Amherst, MA 01003-5810. E-mail: zfsearch@bio.umass.edu. Review of applications will begin October 1, 2001, and continue until position is filled. The University of Massachusetts is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

PROFESSOR AND HEAD

The University of Tennessee, Knoxville, invites applications for Head of the Department of Plant Sciences and Landscape Systems. The Department has research, extension, and academic missions in production of ornamental, food, forage, fiber, and turf crops; biotechnology; weed science; landscaping; public horticulture; and environmental sustainability. Qualifications include Ph.D. in plant biology or closely related field; nationally recognized accomplishments in teaching, research, and/or extension; administrative experience; and appreciation of the land grant mission. See website: ohld.ag.utk.edu/psls/ for position announcement and application procedures. Review of applicants' credentials will begin on November 10, 2001. The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/Americans With Disabilities Act/Age Discrimination in Employment Act institution in the provision of its education and employment programs and services. University of Tennessee is committed to Equal Employment Opportunity and Affirmative Action

POSITIONS OPEN

FACULTY POSITION IN GENOMICS OR BIOINFORMATICS Department of Biology Indiana University, Bloomington

The Department of Biology is seeking candidates working the the areas of genomics or bioinformatics for a position that may be filled at any level from **ASSISTANT** to **FULL PROFESSOR**. We encourage applications from candidates who specialize in any aspect of genomics including functional, population, or evolutionary genomics or in any aspect of bioinformatics.

This position is part of a significant expansion of IU-Bloomington's efforts in the life sciences. The expansion encompasses construction of two major research buildings; a new interdepartmental initiative in biochemistry and biophysics; and numerous recent hirings that have greatly expanded our strengths in the areas of microbiology, biochemistry, cell and developmental biology, molecular evolution, and ecology. One consequence of this expansion is that we welcome applications and inquiries from two-career couples at any level including those with partners in other areas of biology, biochemistry, and biophysics.

The successful candidate will be provided with a competitive start-up package and will both interact with and benefit from The Center for Genomics and Bioinformatics, a campuswide center supporting research in these areas. S/he will also benefit from intercampus programs sponsored by the Indiana Genomics initiative fostering collaborations with the Indiana University School of Medicine and from training grants in genetics and in evolution, development, and genomics. For more information about the Biology Department and for links to information about the campus and the Bloomington community, see website: http://www.bio.indiana.edu. Junior candidates should send curriculum vitae; a

Junior candidates should send curriculum vitae; a statement of research (past, present, and planned) and teaching interests; representative publications; and arrange to have three (or more) letters of recommendation sent to: **Professor Peter Cherbas, Genomics and Bioinformatics Faculty Search, Department of Biology, Indiana University, 1001 East Third Street, Bloomington, IN 47405-3700.** Senior candidates should send a letter of interest and curriculum vitae. Review of applications will begin October 15, 2001, and will continue until suitable candidates are identified.

Indiana University is an Affirmative Action/Equal Opportunity Employer. Women, minority candidates, and couples are encouraged to apply.

TENURE-TRACK POSITION INTEGRATED PHYSIOLOGY Medical University of South Carolina

The Department of Physiology and Neuroscience at the Medical University of South Carolina invites applications for a 12-month tenure-track appointment. Rank will be commensurate with experience. Applicants must have a Ph.D., M.D., or both with significant activity in biomedical research and in the teaching of systems-level physiology to professional and graduate students. Preference will be given to applicants who can demonstrate a record of excellence in teaching as well as in curriculum leadership and innovation. An individual holding this position will be expected to spend approximately one-third of their effort in laboratory research compatible with depart mental interests including cellular and systems neuroscience and cardiovascular physiology. Review of applications will begin October 1, 2001, and continue until the position is filled. Applicants should submit curriculum vitae, a statement of teaching philosophy with copies of teaching evaluations and selected course materials, a statement of research interests and goals, and the names of three letters of reference to: Christopher Fredericks, Ph.D., Department of Physiology/Neuroscience, Medical University of South Carolina, P.O. Box 250510, Charleston, SC 29425. E-mail: frederic@musc.edu; website: http://www2.musc.edu/pgy/pgy.html. Medical University of South Carolina is an Equal Employment Opportunity/Affirmative Action Employer.

GLOBAL OPPORTUNITIES

UNIVERSITY OF KUWAIT FACULTY OF MEDICINE HEALTHSCIENCE CENTRE

Pre-clinical and Clinical Appointments

Applications are being sought for the following appointments in the Faculty of Medicine:

	, U	ing appointments in the	-	
ANATOMY: Assistant/Associate/Professor:		Human Gross Anatomy		
		Applied Anatomy		
		Radiological Anatomy		
		Neuroanatomy		
		Developmental and Mic	croscopic Anatomy	
BIOCHEMISTRY: A fessor:	ssistant/Associate/Pro-	Biochemistry		
COMMUNITY MEE	ICINE: Assistant/As-	Medical Sociologist		
sociate:		Health Planning and Ac		
		specialist and/or Heal		
		Envrionmental and Occ	upational Health	
		Specialist Epidemiologist (2)		
MEDICINE: Associate	/Professor:	Neurology		
		Infectious Diseases		
MICROBIOLOCY	Assistant/Associate/	Consultant Clinical Im	munologist	
Professor:	Assistant/Associate/	Consultant Allergist		
110103301.		Molecular Immunologist		
		Consultant Clinical Vir		
		Molecular Virologist	0	
		Consultant Clinical Mi	crobiologist	
	NE: Assistant/Associate/	Radiopharmacists/Radi		
Professor:		Nuclear Medicine Phys	icists	
PHYSIOLOGY: Assistant/Associate:		Respiratory Physiology		
		Neuro-endocrine Physi	ology	
		General Physiology		
PHARMACOLOGY: Assistant/Associate/ Professor:		Neuropharmacology		
		Clinical Pharmacology/Toxicology		
		Molecular Biologist		
OBST. and GYNAECOLOGY: Associate/Pro-		Maternal Fetal Medicine		
fessor:			Gynaecological Oncology	
		Urogynaecology Reproductive Medicine		
RADIOLOGY: Associ	ate/Professor:	Radiologists		
		-		
SURGERY: Professor:		Anaesthesia/Intensivist		
		Colon and Rectal Surge Urology	ery	
DEQUIDEMENTS E/			Description	
professional qualification		plicants should possess a Ph OG/MRCPath/MD/Americ research in their field.		
		onthly salaries will be with = 1.9 St. Pound, US\$ 3.3 ap		
	Professors Min-Max	Associate Min-Max	Assistant Min-Max	
	KD. 2585-2745	KD. 2290-2450	KD. 2010-2170	
	KD. 1670-1830	KD. 1320-1480	KD. 1030-1190	
	•	e monthly salary as per the		
OTHER BENEFITS:	Conference attendance.	Gratuity. Housing/housing	allowance. Free medica	

OTHER BENEFITS: Conference attendance. Gratuity. Housing/housing allowance. Free medical treatment in Kuwait. Free annual round-trip air tickets from country of Citizenship or permanent residence for self and family up to three dependent children. Baggage and freight allowance. Education fees for a maximum of three children in Kuwait from elementary through high school. No taxation. Currency is transferable without restriction. 60 days paid annual leave.

METHOD OF APPLICATION: Curriculum vitae which should include the names of three referees; personal particulars; copy of the relevant pages of passport; qualifications with dates, career history, teaching experience, research accomplishments and where appropriate clinical experience should be sent no later than October 31, 2001 to: THE VICE-DEAN ADMINISTRATION (RECRUITMENT OFFICE), FACULTY OF MEDICINE, KUWAIT UNIVERSITY, P.O. BOX 24923, 13110 SAFAT, KUWAIT, FAX: 965 5318454

Long Island Cancer Center Stony Brook University is seeking faculty candidates at all levels with interests in basic and applied cancer research. The long-range goal is to develop an NCI-designated cancer center for Long Island. Initial recruitment is focused on the genetics, immunology and molecular epidemiology of human cancer. Candidates must have a Ph.D. and/ or M.D. and have completed postdoctural training.

Faculty for the

The Cancer Center initiatives cover a broad range of clinical, translational and basic research disciplines. There is outstanding expertise in cell biology, biochemistry, pharmacology, developmental biology, molecular biology, structural biology, microbiology, immunology, preventive medicine and epidemiology. There are also exceptional programs in molecular carcinogenesis, tumor virology and signal transduction.

Successful candidates will have a joint appointment in an academic department of the University or School of Medicine and in the Long Island Cancer Center at Stony Brook University. There is considerable latitude in departmental affiliation including Biochemistry, Microbiology, Pathology, Pharmacology, Preventive Medicine and Neurobiology.

A statement of research interests and goals, a curriculum vitae and bibliography should be sent to: John Kovach, M.D., Director, Long Island Cancer Center at Stony Brook University, Stony Brook, N.Y. 11794-7547.

An affirmative action/ equal opportunity educator and employer.



Biomedical Engineering Faculty Positions

The Department of Biomedical Engineering at Stony Brook University is inviting applications for 6 Assistant, Associate and/or Full Professor tenure-track faculty positions in the areas of Bioinformatics, Biosensors, and Nanotechnology. These appointments will begin as soon as possible.

Candidates must have a Ph.D. in Biomedical Engineering or a related field, and a minimum of 2 years of postdoctoral experience preferred. Outstanding candidates wishing to be considered at the Associate or Full Professor level should have active, funded research programs in the areas of molecular bioengineering. Candidates are expected to maintain competitive extramurally funded research programs and to excel in teaching at both graduate and undergraduate levels. Relationships with industry and clinical implementation of biosenors, nanotechnology, and bioinformatics are encouraged.

Qualified individuals are invited to submit a complete application including their CV, statement of research, teaching philosophy, and names/ addresses of four professional references to: Biomedical Engineering Search Committees, Stony Brook University, Psychology A, 3rd floor, Stony Brook, NY 11794-2580. Applications should be received by October 30, 2001.

Qualified women and minority candidates are encouraged to apply. AA/EOE



POSITIONS OPEN

BIOLOGICAL SCIENCES

University of Alberta: The Department of Biological Sciences in the Faculty of Science is a broadly based department with strong research groups in a number of areas including agricultural and forest biotechnology, molecular biology, freshwater ecology, and pop-ulation biology. We invite applications for two positions at the ASSISTANT or ASSOCIATE PRO-FESSOR level. For one position, we are seeking an Entomologist with expertise and experience in crop and/or forest entomology. For the second position, we are seeking a Biologist with experience working with aquatic invertebrates. Relevant expertise for these positions could include areas such as IPM, physiology, ecology, or population genetics and address questions from the organismal to the population level. Outstanding potential for excellence in teaching is also required. The research of our 75 faculty members and 275 graduate students is supported by excellent infrastructure including an internationally recognized insect collection, molecular biology service unit, extensive controlled-environment facilities, a large experimental farm, several field stations, and extensive opportunities for collaboration. Candidates should forward curriculum vitae, list of publications, reprints of their three most significant publications, a brief research plan, and statement of teaching interests to: Dr. G.J. Taylor, Chair, Department of Biological Sciences, CW 405 Biological Sciences Building, University of Alberta, Edmonton, Alberta T6G 2E9 Canada. Applicants must also arrange for three letters of reference to be sent to the Chair. Closing date: October 15, 2001. The effective date of employment will be July 1, 2002. We are committed to the principle of Equity in Employment. We welcome diversity and encourage applications from all qualified women and men including persons with disabilities, members of visible minorities, and aboriginal persons. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. If snitable Canadian citizeus and permanent residents cannot be found, other individuals will be considered. The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIPP). The University of Alberta hires on the basis of merit.

COMPUTATIONAL SCIENTIST: Bryn Mawr College invites applications from Computational Scientists for a tenure-track position at the level of **ASSISTANT PROFESSOR** beginning fall 2002. The candidate should be a Scientist who uses computer modeling as a primary research tool. The successful candidate will be expected to teach a course in scientific computation, courses in algorithm design for scientific problem solving (including numerical model development and applications), as well as introductory and advanced courses in his or her scientific field of specialty. The candidate will also be expected to develop an active, funded research program involving undergraduate and graduate students. The position will be hosted by one of the college's natural science departments (Biology, Chemistry, Geology, or Physics) depending on the successful candidate's area of expertise. A Ph.D. at the time of appointment is required. Applications should include curriculum vitae, description of research interests, teaching philosophy and experience, and current letters from at least three professional references. Applications should be sent to: Trisha Piccirelli, Computational Scientist Search Committee, 294 Park Science Center, Bryn Mawr College, Bryn Mawr, PA 19010. Review of applications will begin November 19, 2001. Bryn Mawr is a liberal arts college for women with coeducational graduate programs in the sciences, some humanities, and social work. The College supports faculty excellence in both teaching and research and provides a rigorous education in the context of a diverse and pluralistic scholarly community. Located 11 miles west of Philadelphia, Pennsylvania, Bryn Mawr participates in consortial programs with the University of Pennsylvania and Haverford and Swarthmore Colleges. Bryn Maur College is an Equal Opportunity/Affirmative Action Employer. Minority candidates and women are especially encouraged to apply.

POSITIONS OPEN

FACULTY POSITIONS IN BIOORGANIC AND BIOLOGICAL CHEMISTRY University of Pennsylvania Department of Chemistry

The Department of Chemistry at the University of Pennsylvania plans to make two faculty appointments in the area of bioorganic and biological chemistry. The appointments can be at any rank. Applicants should send their curriculum vitae, list of publications, and a description of current and proposed research to: Hai-Lung Dai, Chairman, Department of Chemistry, University of Pennsylvania, Philadelphia, PA 19104-6323 at their earliest convenience. Applicants at the ASSIST-ANT PROFESSOR level should submit materials including three reference letters by October 31, 2001. Consideration of the applications starts immediately. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

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 physi ological 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 romen, minorities, and people with disabilities. An Affirmative Action/Equal Opportunity Employer.

NEUROSCIENTIST: The Department of Pediatrics, Division of Pediatric Neurology at the School of Medicine, University of Pennsylvania, and The Children's Hospital of Philadelphia seek candidates who are Neuroscientists with expertise in neurophysiology. The successful candidate should have a Ph.D. with previous experience in electrophysiology and with a research focus on epilepsy as well as a national recognition as an Investigator, should have an independent research program, a record of mentoring junior faculty, and be able to develop a research program on epilepsy that is integrated with the existing clinical epilepsy group. The faculty appointment will be at the **ASSOCIATE PROFESSOR** level in the tenure track. Individuals interested in this position should send a letter of interest, current curriculum vitae, and the names of three references to: Gihan I. Tennekoon, M.D., Professor and Chief, Division of Child Neurology, The Children's Hospital of Philadelphia, 34th and Civic Center Boulevard, Phildelphia, PA 19104. The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer and strongly encourages applications from women and underrepresented minorities.

POSITIONS OPEN

CHAIRPERSON DEPARTMENT OF PSYCHOLOGY University of Delaware

The Department of Psychology at the University of Delaware (website: http://www.psych.udel.edu) invites nominations and applications for the position of DEPARTMENT CHAIR. The Department currently has approximately 26 faculty, 1,000 majors and minors, and 40 graduate students in Ph.D. programs in behavioral neuroscience, clinical (APA-accredited), cognitive, and social psychology. The Department also has strong ties with the interdisciplinary program in cognitive science. The Department recently identified the area of early experience and developmental processes as a theme to guide future hires, collaborative arrangements, and curriculum development. The Department is in a period of rapid development and offers the successful candidate the opportunity to lead the Department to a higher level of national recognition and to recruit for several positions. The Department will be housed in a newly renovated building by late 2002, at which time the Department will have 22,000 square feet of dedicated laboratory space. The successful candidate will be a distinguished Scientist in any field of psychology and qualify for appointment at the rank of **PROFESSOR**, have experience that demonstrates the ability to lead a large academic unit and work successfully within the institutional context. and be invested in the Department's emphasis on early experience. The University is ideally situated within 50 miles of both Philadelphia, Pennsylvania, and Baltimore, Maryland, and within 100 miles of both New York City and Washington, D.C. Applicants should send a detailed cover letter and curriculum vitae including the names of at least four potential references to: William Frawley, Chair, Search Committee, Department of Psychology, University of Delaware, Newark, DE 19716. Curriculum vitae and letters of reference shall be shared with Department faculty. Review of applications will begin October 1, 2001, and continue until the position is filled. The University of Delaware is an Equal Opportunity Employer that encourages applications from minority group members and пошен.

DEVELOPMENTAL MOLECULAR BIOLOGY

Ursinus College, with grant support from the Howard Hughes Medical Institute (HHMI), is expanding its biology faculty and is actively seeking candidates with innovative ideas for interdisciplinary research, teaching, and curriculum development. The College invites applications for an ASSISTANT PROFESSOR position, tenure track, beginning fall 2001. Responsibilities include teaching courses in developmental biology, genetics, and molecular biology and developing a research program that involves undergraduates. The successful applicant will also collaborate with colleagues in other science departments to support our new interdisciplinary program in biochemistry and molecular biology. Ph.D. required; postdoctoral research and teaching experience desirable

The College, located in a suburban setting 25 miles northwest of center city Philadelphia, is a highly selective, nationally ranked, independent, coeducational, residential liberal arts college of 1,300 students with a long tradition of strength in science. Laboratory facilities in biology and chemistry, supported by numerous grants from NSF, NIH, and HHMI, are outstanding.

Applicants should describe (1) their commitment to and philosophy of undergraduate teaching in a liberal arts setting and (2) a research program that will involve undergraduate collaborators. Send letter of application, curriculum vitae, transcripts, and three letters of recommendation to: Dr. Robert Dawley, Co-Chair, Department of Biology, Ursinus College, Collegeville, PA 19426-1000. Review of applications will begin October 5, 2001, and continue until the position is filled. In keeping with the College's historic commitment to Equality, women and minorities are especially encouraged to apply. Ursinus College is an Equal Opportunity Employer/Affinantice Action Employer.

GLOBAL OPPORTUNITIES

Full Professor or Associate Professor Kuwait University

Department of Biological Sciences at Faculty of Science - Kuwait University announces a position for a full professor or associate professor in the field of Flowering Plant Taxonomy

Position conditions

- 1. Ph.D. majoring in flowering plant taxonomy
- 2. Least 5 years teaching experience
- 3. An excellent research conducting capability with experience in terrestrial and dryland plants.
- 4. An excellent English skills
- 5. Experience in herbarium management is preferred

Position benefits

- 1. Tax free salary
- 2. Furnished accommodations with utilities paid
- 3. Annual vacation, health insurance, round trip tickets
- 4. Research facilities and funds are provided with approved research projects
- Papers required for the position
- 1. Personal C.V.
- 2. Address e-mails, telephone numbers and fax for the applicant
- 3. Three addresses for recommendations
- 4. Photocopy the applicant passport's data pages

Please be informed that contracts start on September, or February 2001/2002.

Please send your papers within four weeks from today to: Deans Office, Faculty of Science, Kuwait University, P.O. Box 5969 Safat, 13060, Kuwait.

For more information: Fax #: (965) 4847054, E-mail: biosc@kuc01.kupiv.edu.kw

Research Specialist

Howard Hughes Medical Institute, a leading biomedical research organization, is seeking a Research Specialist to direct and manage the biochemestry-related research goals at our University of California-Berkeley laboratory.

The ideal candidate will research, develop, and troubleshoot laboratory protocols, especially those related to protein purification from bacterially-expressed and cell culturederived material. You will also train/supervise students and technical personnel as well as oversee a large-scale HeLa cell culture system. We require a Master's degree or Ph.D. in Biochemestry, Molecular Biology, or Cell Biology; and experience with biochemical techniques (i.e.: protein expression and purification). Supervisory experience is a plus.

HHMI offers a competitive salary and an excellent benefits package. Please send resume/C.V. to: Howard Hughes Medical Institute, Attn: Dr. Eva Nogales, 355 LSA #3200, UC Berkeley, Berkeley, CA 94720-3200. E-mail: enogales@lbl.gov Fax: (510) 642-8806 HHMI is an equal opportunity employer.

ww.hhmi.org



nature Structural Diology

seeks an ASSISTANT EDITOR

Nature Structural Biology is a prestigious international monthly journal covering all aspects of research pertaining to biomolecular form and function. We have an exciting opportunity available for a scientist eager to enter the editorial world. Nature Structural Biology needs an Assistant Editor to help develop the journal. The successful candidate will work full time in our New York City office and participate in all aspects of the editorial process, including manuscript selection and editing, commissioning and editing News & Views and Reviews, and writing for the journal. The job also involves attending scientific meetings and forging links with the international scientific community. The new editor will join our small team of editors within the larger publishing group that also produces Nature Genetics, Nature Medicine, Nature Biotechnology, Nature Neuroscience and Nature Immunology. The successful applicant will also enjoy a close working relationship with the London-based Nature, Nature Cell Biology, and Nature Reviews teams.

Applicants should have an intense curiosity about science and a broad understanding of the field, and should have a Ph.D. and preferably post-doctoral experience with a strong research background in molecular biology, biochemistry or structural biology. The ideal candidate will also have excellent literary skills and an enthusiasm for, and commitment to, the communication of science.

Please submit a curriculum vitae, a short (500-1000 words) News and Views-style article on an exciting and newsworthy recent development in a relevant scientific area, and a cover letter explaining your interest in the position to The Editor, *Nature Structural Biology*, 345 Park Avenue South, New York, NY 10010 (fax: 212-679-0735; e-mail: nsb@natureny.com). Applications should arrive as soon as possible, and **no later than September 28, 2001**.

KANSAS CANCER INSTITUTE AND THE DEPARTMENT OF PATHOLOGY AND LABORATORY MEDICINE University of Kansas Medical Center

Kansas Masonic Distinguished Professor of Cancer Research

The Kansas Cancer Institute and the Department of Pathology and Laboratory Medicine at the University of Kansas Medical Center are seeking applications for the Kansas Masonic Distinguished Professor of Cancer Research.

The successful candidate must possess a Ph.D., M.D., or M.D./Ph.D. and an ongoing extramurally funded research program and strong record of scientific productivity in the field of cancer biology. Areas of interest include but are not limited to molecular carcinogenesis, chemoprevention, signal transduction, cancer genetics, DNA damage and repair, and angiogenesis.

The basic research programs in the Kansas Cancer Institute include: Experimental Therapeutics and Drug Discovery; Cancer Prevention and Control; Breast/Ovarian Cancer Detection, Prevention and Treatment; and Cell Signaling and Genetics. The Kansas Cancer Institute serves as a facilitating force to enlist all of the clinical and basic science resources of the University of Kansas and the Kansas City area to achieve excellence in cancer research.

The selected applicant will receive a primary appointment in the Department of Pathology and Laboratory Medicine in the School of Medicine and full membership in the Kansas Cancer Institute.

Interested applicants should submit a curriculum vitae with letter of inquiry to: Dr. Jill Pelling, Professor, Department of Pathology and Laboratory Medicine, 2017 Wahl Hall West, University of Kansas Medical Center, 3901 Rainbow Blvd., Kansas City, KS. 66160-7410 or e-mail to Jpelling@kumc.edu

The University of Kansas University Medical Center is an Equal Opportunity Affirmative Action Employer

POSITIONS OPEN

FACULTY POSITION INSECT NEUROBIOLOGY

The Arizona Research Laboratories Division of Neurobiology, an interdisciplinary research and teaching unit at the University of Arizona devoted to behavioral, cellular, developmental, molecular, and systems neurobiology using insects as experimental models, invites applications for a tenure-track **ASSIS-TANT PROFESSORSHIP**. See website: http:// www.neurobio.arizona.edu/arldn/.

We expect to fill this position in 2002. While all areas of insect neurobiology are open to consideration, the fields of neurophysiology, neurochemistry, and neuropharmacology (particularly molecular and genetic studies of neural function in *Drosophila*) have priority in this search.

The successful candidate will be expected to conduct independent, externally funded, and productive research; teach undergraduate and graduate classes; supervise research trainces; and provide service to the Division and the University. Candidates must have a Ph.D. or equivalent degree, postdoctoral experience demonstrating commitment to and success in research, and teaching experience.

Review of applications will begin on October 15, 2001, and continue until position is filled. Send curriculum vitae, list of publications, reprints of key papers, a statement of research and teaching accomplishments and future plans, and arrange for at least three letters of recommendation to be sent to:

> Dr. John G. Hildebrand ARL Division of Neurobiology University of Arizona P.O. Box 210077 Tucson AZ 85721-0077 U.S.A. E-mail: jgh@neurobio.arizona.edu

The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer. Minorities/Female/ Disabled/Veteran.

The Department invites applications for a cluster hire of four tenure-track organic faculty positions at the ASSISTANT PROFESSOR level. The expected beginning date is July 1, 2002. Preferred candidates will have a background and research interests in chemical biology. This includes but is not limited to biosynthetic/synthetic/computational combinatorial chemistry, natural products biosynthesis, chemical genetics, macromolecular ligand discovery, drug design, proteomics, etc. Candidates must have a strong commitment to research and teaching organic chemistry at the graduate and undergraduate level. A Ph.D. or equivalent degree is required. Applicants should provide curriculum vitae (including a list of publications), a two-page summary of previous research, concise research proposals, and three letters of reference to: Organic Recruitment Committee, Chemistry Department, Room 108, University of California, One Shields Avenue, Davis, CA 95616-5295. The position is open until filled but to assure consideration, applications and reference letters should be received by October 1, 2001. The University of California, Davis is an Affirmative Action/Equal Opportunity Employer with a strong institutional commitment to developing a dimate that supports Equal Opportunity and respect for differences.

TENURE-TRACK FACULTY POSITION

The Department of Physiology in the Texas Tech University School of Medicine has a position for an ASSISTANT PROFESSOR. Exceptional candidates may be considered for more senior positions. Preference will be given to those who are most likely to develop and maintain an independent, funded research program. Responsibilities will include participation in medical and graduate education. For more information, see website: http://physiology.ttuhsc. edu. Applicants should submit a brief summary of research interests and future goals, curriculum vitae, and the names of three references to: Richard D. Nathan, Ph.D., Search Committee Chair, Department of Physiology, Texas Tech University Health Sciences Center, 3601 Fourth Street, Lubbock, TX 79430. TTUHSC is an Equal Opportunity/ Affinuative Action Employer.

POSITIONS OPEN

TENURE-TRACK INVESTIGATOR Mechanisms of Diabetes/Obesity

The Diabetes Branch, NIDDK, NIH, in Bethesda, Maryland, seeks to recruit a tenure-track Scientist (AS-SISTANT PROFESSOR equivalent) who will use cellular, molecular, and/or genetic approaches to study molecular mechanisms relevant to Type 2 diabetes and/or obesity. The Investigator will be given resources and laboratory space to pursue a vigorous and effective research program. The position offers unparalleled opportunities for multidisciplinary research and for interaction with a diverse group of outstanding Scientists in the NIDDK and throughout the NIH. For information about the NIDDK and the Diabetes Branch, see website: http://www.niddk.nih.gov. Candidates must have a Ph.D., M.D., or equivalent

Candidates must have a Ph.D., M.D., or equivalent degree in the biomedical sciences; demonstrated research productivity; and capability of establishing an innovative and independent research program. Competitive salary and benefit packages are available. Applicants should send curriculum vitae and list of publications; copies of three major publications; a plan for future research; and three letters of reference by October 15, 2001, to: Dr. Daniel Camerini-Otero, Search Committee Chair, c/o Ms. Consuelo Holguin, Building 10, Room 8S–235A, 10 Center Drive MSC 1770, Bethesda, MD 20892-1770.

ASSISTANT PROFESSOR of physiology and biophysics. The Department of Physiology and Biophysics at the Albert Einstein College of Medicine invites applications for a tenure-track faculty appointment at the Assistant Professor level. Applications from candidates with exceptional strength in any area of biophysics or physiology are welcome. The major responsibility of successful candidates will be research supported by extramural sources; demonstrated productivity in research is therefore essential. Evidence of ability to interact productively with colleagues in the Department and throughout the College will be a significant factor in evaluating candidates. Research and supporting facilities within the Department and throughout the College are excellent and will be accessible to incoming faculty. In addition, the College will provide an outstanding start-up package with competitive salary and fringe benefits. The Albert Einstein College of Medicine is located in a pleasant residential section of the Bronx with easy access to the cultural and entertainment resources of Manhattan as well as Westchester County and other communities of the New York Metropolitan region. Replies including curriculum vitae and names of at least three references should be sent to: Dr. Philip Aisen, Department of Physiology and Biophysics, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. Equal Opportunity Employer.

JILA [operated jointly by the National Institute of Standards and Technology and the University of Colorado] is devoted to research and applications in the fields of laser technology, optoelectronics, precision measurement, surface science and semiconductors, information and image processing, and materials and process science as well as basic research in atomic, molecular and optical physics, gravitational physics, chemical physics, astrophysics, and geophysical measurement. Additionally, at JILA there is interest in fostering further interaction with industry research efforts in order to identify new, industrially relevant applications of the technologies developed. Applications are invited for two programs: (1) **RESEARCH ASSOCIATESHIPS** for ad-

(1) **RESEARCH ASSOCIATESHIPS** for advance research by recent Ph.D.s. Applications are accepted and considered anytime throughout the year.

(2) **VISITING FELLOWSHIPS** for advanced research by senior Scientists. Deadline for completed applications is November 1, 2001.

Further information may be obtained from: Secretary, Visiting Scientists Program, JILA, UCB 440, University of Colorado, Boulder, CO 80309-0440. E-mail: jilavf@jila.colorado.edu; website: http://jilawww.colorado.edu. The University of Colorado at Boulder is committed to diversity and Equality in Education and Employment.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR Genomics/Proteomics Michigan State University

The Microbiology and Molecular Genetics Department at Michigan State University seeks a tenuretrack Assistant or Associate Professor in the area of genomics and/or proteomics. Applicants are sought with demonstrated research expertise including but not limited to genome sequence analysis, microarray technology, high-throughput analysis of gene func tion and/or protein associations, and studies of ge nome structure and evolution. Research interests of candidates may involve applications to problems in biotechnology, cell biology, ecology/evolution, pathogenesis, and/or physiology. Responsibilities include developing an independent, externally funded research program and limited teaching duties. Our Department (see website: http://www.msu.edu/ unit/mic/) has research emphasis areas in functional and comparative genomics; microbial physiology, ecology, and evolution; cell growth and differentiation; and molecular pathogenesis. As of next year, the Department will move into newly constructed research space. A competitive start-up package is available. Requirements include a Doctoral degree, at least two years of postdoctoral experience, and a strong record of research accomplishment. Applicants should send curriculum vitae and statement of current and future research and should arrange to have three letters of reference sent to:

Dr. Tom Schmidt Genomics Search Committee Chairperson Microbiology and Molecular Genetics Giltner Hall Michigan State University East Lansing, MI 48824 FAX: 517-353-8957 E-mail: micmail@msu.edu

To ensure full consideration, applications should be received by October 15, 2001. Michigan State University is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are particularly encouraged to apply.

BIOLOGICAL SCIENCES

Three ASSISTANT PROFESSORS: tenure-track positions in systematic botany, human anatomy, and nicrobiology in an expanding department starting August 2002. Ph.D. required; broad training/experience in biology and undergraduate education in the liberal arts. Teaching responsibilities (two courses per semester) include general biology plus core and spe-cialty courses for majors and M.S. candidates. Strong commitment to undergraduate teaching and research. The Botanist's duties include the curatorship of a small but active herbarium. Each successful candidate will have a research laboratory and office in a new building (website: http://www.uop.edu). Send statement of teaching and research interests, curriculum vitae, transcripts, and three letters of reference to: Dr. Paul A. Richmond, Chair, Department of Biological Sciences, University of the Pacific, Stockton, CA 95211. Review will begin October 12, 2001. The University of the Pacific is an Affirmative Action/Equal Opportunity Employer encouraging excellence through diversity.

TOXICOLOGY FACULTY POSITION TOXICOLOGY CENTER Creighton University

Creighton University, a Catholic Jesuit Institution, invites applications for a full-time, tenure-track faculty position in toxicology. Rank and salary are commensurate with experience. A strong research background in mechanistic and molecular toxicology with grantsmanship expertise is required. Send curriculum vitae, a brief description of research interests and activities, and names of four references to: Sidney J. Stohs, Ph.D., Professor and Dean, School of Pharmacy and Allied Health Professions, Creighton University, 2500 California Plaza, Omaha, NE 68178. E-mail: stohs@creighton.edu; Telephone: 402-280-2950; FAX: 402-280-5738. Creighton University is an Affirmative Action/Equal Opportunity Employer.



EMPLOYMENT OPPORTUNITY

CHIEF, Supervisory Scientist UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Environmental Carcinogenesis Division Molecular Toxicology Branch Research Triangle Park, North Carolina

The U.S. Environmental Protection Agency (EPA) is seeking qualified applicants for the position of Supervisory Scientist (Interdisciplinary), GS-14/15 (Announcement # EPA-RTP-DE-2001-191). The position serves as Chief, Molecular Toxicology Branch, Environmental Carcinogenesis Division (ECD), National Health and Environmental Effects Research Laboratory (http://www.epa.gov/nheerl/ ecd/). This position is located in the Research Triangle Park, North Carolina. This is a permanent, full-time position with a salary range of \$72,769 to \$111,581, per annum, commensurate with qualifications. The selected candidate will be eligible for a full benefits package, including relocation expenses, health insurance, life insurance, retirement and vacation and sick leave benefits. United States citizenship is required.

The ECD, which consists of three Branches, is a multidisciplinary carcinogenesis program with an EPA staff of approxi-mately 55 employees. The Division focuses its research on addressing the issues, assumptions, and uncertainties in cancer risk assessment and serves as a focal point for planning, coordinating, conducting, supporting, and evaluating mechanistic research to improve cancer risk assessment. The position will direct and manage the research program of the Molecular Toxicology Branch. This program includes an intramural research program and pre and postdoctoral programs. Working with other Division managers, the incumbent provides scientific and managerial leadership of the program, develops the program to meet the evolving needs of the EPA, presents the program to both EPA and non-EPA audiences, develops and manages budgets and related resources, and supervises the staff.

HOW TO APPLY: Vacancy announcement and application instructions will be posted on the U.S. Office of Personnel Management (OPM) web site at http:// www.usajobs.opm.gov as of September 10, 2001 under announcement number EPA-RTP-DE-2001-191. The application deadline is October 12, 2001. For further information, contact the EPA Human Resources Management Division at (800) 433-9633, and reference "ECD Branch Chief position."

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



The R.W. Johnson Pharmaceutical Research Institute (RJWPRI) conducts research and development in a variety of therapeutic areas for the Johnson & Johnson family of companies. Our **La Jolla, CA** site focuses on the application of state-of-the-art techniques in cellular and molecular biology, bioinformatics, computer science and organic synthetic chemistry to discover novel approaches to unmet medical conditions.

INFECTIOUS DISEASE OPPORTUNITIES

Senior Scientist/Principal Scientist

(Job Code #12597)

We are seeking a highly motivated, innovative professional with a Ph.D. plus 2-8 years experience to evaluate the pharmacokinetics and metabolism of novel antimicrobial agents in support of preclinical drug development. A background in antimicrobial drug discovery or *in vivo* models of infectious disease is a plus.

Research Associate/Associate Scientist

(Job Code #12848)

A position is available for a talented individual with a Bachelor's degree or Master's degree and 0-5 years experience to conduct pharmacokinetic and efficacy evaluations of antimicrobial agents in *in vivo* models. Proficiency in rodent handling, dosing by all routes, and sample collection techniques required. Additional skills in biochemistry, infectious diseases, or molecular microbiology is desirable.

Senior Scientist/Principal Scientist (Job Code #12843)

As part of our Virology team you will be involved in the discovery of novel antivirals against RNA viruses. This requires the establishment of cell culture and *in vivo* models of viral infection, as well as biochemical/cellular assay development. The successful candidate will evaluate preclinical drug candidates in these models for antiviral efficacy and help establish their pharmacokinetic profile. Ideally, the candidate will have a Ph.D. in virology or cell biology, and 3-8 years experience with *in vivo*/cellular models of viral infection in antiviral drug discovery. Knowledge of pharmacology/ toxicology and/or enzymology would be preferred.

Research Associate/Associate Scientist (Job Code #14058)

We have a Virology position available for an individual to support our antiviral drug discovery research, particularly in the identification of lead compounds and their pharmacokinetic evaluation using *in vivo* models. Candidates must have a Bachelor's degree or Master's degree in Biology and 0-5 years experience. Essential skills include pharmacology experience in rodent handling/ dosing/PK, and molecular biology techniques. Additional experience in virology, assay development and drug discovery methodologies would be beneficial.

Please apply online@

Johnson & Johnson

www.rwjpri.com/lajolla/careers/jobs

R.W Johnson Pharmaceutical Research Institute 3210 Merryfield Row San Diego, CA 92121 RWJPRI is proud to be an EOE D/V/WF

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The JRF* Discovery organisation is one of the five research centers of Johnson and Johnson, one of the most innovative and successful health care companies in the world. Johnson and Johnson is employing more than 100,000 employees worldwide. It has set itself high qualitative and ethical standards and has great ambitions to become the most efficient Pharma-company in the world. The JRF Discovery site is located near Antwerp, a historic, yet cosmopolitan and international city in the heart of **Belgium and Europe.**

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Following a recent refocusing of our activities, at **JRF Dis**covery we are now setting the stage to Build History... Again.

Based on our rich experience in the discovery of breakthrough drugs - such as haloperidol, fentanyl, ketoconazole, risperidone, astemizole, loperamide - as part of **Janssen Pharmaceutica**, we are building **JRF Discovery** into a highly innovative, empowered and science-driven organization, mixing our traditional skills in Disease Pharmacology and Medicinal Chemistry with genomics driven molecular approaches and highly innovative technologies.

To achieve this, major investments are being made in new research infrastructure and automation, and in building strong partnerships with leading Biotech companies and research institutes.

We are now looking to attract scientific experts (*M/F*) in a number of critical areas. If you feel attracted by the challenge to invent break-through new drugs by combining highly innovative approaches with established drug discovery experience in a people focused organization, and you have the right balance of strong expertise and entrepreneurship, do not hesitate to apply for one of the following positions.

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Scientist and Senior Scientist

In vivo and Behavioral Pharmacology, Metabolic Disorders Ref. 2001/0765-1/SCI

Team Leader High-Throughput Chemistry High-Throughput Chemistry, SynTech Group, Medicinal Chemistry Ref. 2001/0765-2/SCI

Scientist in Combinatorial Chemistry High-Throughput Chemistry, SynTech Group, Medicinal Chemistry Ref. 2001/0765-3/8Cl

Scientists - In Vitro Pharmacokinetics Ref. 2001/0765-4/SCI Ref. 2001/0765-5/SCI

(Senior) Scientists - Molecular Modeling Ref. 2001/0765-6/SCI

Scientists - Chemoinformatics Ref. 2001/0765-7/SCI

Senior Scientist - Chemoinformatics Ref. 2001/0765-8/SCI

High Throughput Screening - Enzymologist

Ref. 2001/0765-9/SCI

Senior Scientist Gastrointestinal Disease Area, Pharmacology of Visceral Pain Ref. 2001/0765-10/SCI

Project Team Leader/ (principal) Scientist Pharmacology Gastrointestinal Disease Area

Ref. 2001/0765-11/SCI

Biochemist with Automation Experience Ref. 2001/0765-12/SCI

Scientist and Senior Scientist Receptor Pharmacologist / Biochemist	Ref. 2001/0765-13/SCI		
Animal Pharmacologist	Ref. 2001/0765-14/SCI		
Molecular Biologist - Biochemist	Ref. 2001/0765-15/SCI		
Biochemist - Cell Biologist	Ref. 2001/0765-16/SCI		
Postdoctoral Positions - Oncology	Ref. 2001/0765-17/SCI		
Postdoctoral Position - Business Support			

Ref. 2001/0765-18/SCI



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UNIVERSITY OF DUBLIN

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Post-Doctoral Scientists Apoptosis/Proteomics



oundation

As a result of a major award by Science Foundation Ireland, we are now seeking applications from post-doctoral scientists for a number of well-remunerated positions within the Molecular Cell Biology Laboratory at Trinity College Dublin. Highly motivated individuals with good publication records are sought to join a successful, well-funded group studying the molecular control of apoptosis.

The National Foundation for Excellence in Scientific

Ireland

Five positions are available, ideally for scientists with experience in 2D gel electrophoresis and/or mass spectrometry, however full consideration will also be given to applicants with a background in cell biology/biochemistry.

For further information, see Slee et al., J. Cell. Biol. 144, 281-292, (1999); Adrain et al., J. Biol. Chem. 274, 20855-20860, (1999); Slee et al., J. Biol. Chem. 276, 7320-7326 (2001); Adrain and Martin, Trends Biochem. Sci. 26, 390-397 (2001).

The remuneration package will include: salary in the range IR£33,000 - IR£55,000 (€41,901- €69,836) per annum, dependent upon publication record and experience, pension contribution of 10% annual salary, and relocation allowance where appropriate. Candidates should submit a cover letter, full CV, list of publications and names of two referees to:

Prof. Seamus Martin Molecular Cell Biology Laboratory Dept. of Genetics, The Smurfit Institute Trinity College, Dublin 2, Ireland Tel: +353 1 608 1289/ Fax: +353 1 679 8558 Email: martinsj@tcd.ie

Closing date for receipt of applications: 30th September, 2001.

Trinity College is an equal opportunities employer

VP of Marketing

U.S. Genomics, Inc. is a high energy VC-backed biotechnology company founded in 1998 to develop novel technologies for genetic analysis. USG is a leader in pioneering new technologies for genomics and has assembled talented individuals at all levels. The ideal candidate is extremely professional with 10+ years of relevant experience. Excellent communication and teamwork skills are imperative. Compensation is extremely competitive and will include salary and stock options. If you are ready for a challenge and excited about the prospect of working with bright, motivated co-workers, please contact us.

Job Description

- Responsible for identifying, assessing and commercializing market opportunities for Company's technology platform and products
- Form/implement strategic plan for commercialization of products in relevant market opportunities Manage potential product launches and lines
- Negotiate/sell early access partnerships; manage market development
- Work with senior management team to develop company strategic plan
- In-licensing, out-licensing of technologies

Responsibilities

- Work closely with internal R&D personnel to identify collaboration opportunities with external companies
- · Identify new business partnership opportunities for Company's technology platform
- Establish and manage relationships with established collaborators
- · Negotiate and execute partnerships with commercial and academic institutions
- · Analyze market opportunities
- Assist with developing corporate strategy
- Assist with developing corporate marketing materials and presentations

Job Qualifications

- · Advanced degree in genomics or other relevant life science discipline from top school preferred
- · Excellent scientific understanding of genomics-related technologies required
- Minimum of 10+ years of direct experience in marketing, launching products in genomics/biotechnology markets with track record of success
- Product management experience, including P&L responsibility for product lines
- Excellent communications/leadership/analytical/teamwork skills
- Superior business quantitative skills including financial modeling and market analysis
- · Experience working in start-up or other high-energy, dynamic environment required
- High-energy, self-starter with excellent sales and negotiation skills
- Business degree from top school a plus
- Ambition and drive to help company change an entire industry

Contact: Ian Chan, CFO, VP-Corporate Development, Ichan@usgenomics.com, 781-937-5550 x203

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Graduate Student Recruiter The University of Texas Southwestern Medical Center at Dallas

Position available immediately

The University of Texas Southwestern Graduate School of Biomedical Sciences seeks applications for a new full-time position to expand our program of aggressive recruiting of basic science graduate students. The position will require extensive travel to present opportunities for graduate education at UT Southwestern to students and faculty at colleges and universities nationwide. The successful individual will also assist in recruiting students who are members of underrepresented minorities and undergraduate summer research fellows, in addition to other recruiting activities that develop. We seek an individual with a suitable scientific background for successfully representing the expanding training opportunities at UT Southwestern Medical Center for students with degrees in chemistry, physics, mathematics and computer sciences. This individual must exhibit strong interpersonal skills, an enthusiastic outgoing personality, and the ability to interact with students from diverse academic backgrounds. The successful individual will have a Ph.D. and must have a working knowledge of research trends in chemistry, structural biology, proteomics and related topics. Applicants who are familiar with research and education at UT Southwestern Medical Center are especially encouraged to apply. Salary and rank are negotiable depending on experience

The University of Texas Southwestern Medical Center at Dallas is an equal opportunity/affirmative action employer and encourages women and members of underrepresented minorities to apply. Applications will be considered starting September 28, 2001 and thereafter until the position is filled.

To apply send a curriculum vitae or resume and have three letters of recommendation sent to:

Dr. Philip S. Perlman Southwestern Graduate School of Biomedical Sciences The University of Texas Southwestern Medical Center at Dallas 5323 Harry Hines Blvd. Dallas, TX 75390-9004 Philip.Perlman@utsouthwestern.edu



active post-doctoral research program with current vacancies. We are accepting applications for these vacancies from September 4 - October 31, 2001. As one of the national laboratories within the Office of Research and Development (ORD), NHEERL is EPA's focal point for scientific research on the effects of contaminants and environmental stressors on human health and ecosystems

Because of NHEERL's broad research mission and multi-disciplinary approach, we seek candidates with a Ph.D. from a wide range of disciplinary backgrounds. Candidates with an M.D. or D.V.M. degree and a background demonstrating experience conducting scientific research may also be considered. United States citizens are preferred and will be given first consideration for all positions. In the absence of qualified U.S. citizens, only applications of U.S. permanent residents who are citizens of countries specified as exceptions to the appropriations act ban on paying non-U.S. citizens may be considered.

These positions are excepted service appointments for two to three years, and offer a salary range of \$35,808 - \$67,500, commensurate with qualifications. The selected candidates will be eligible for a full benefits package, including relocation expenses, health insurance, life insurance, retirement, and vacation and sick leave.

To obtain specific information on current research projects and application requirements, please visit the NHEERL Internet site at http://www.epa.gov/ nheerl. Questions may be directed to Ms. Dorothy Carr at (800) 433-9633.

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

Graduate training opportunities for Chemists in biomedical research

The University of Texas Southwestern Medical Center at Dallas has hired internationally recognized faculty and built state-of-the-art facilities for research using synthetic organic and combinatorial chemistry to study problems in biomedical sciences. UT Southwestern Medical Center ranks among the top ten biomedical research institutions in the country based on NIH research grant support to the basic science faculty. With four Nobel Laureates and twelve members of the National Academy of Sciences UT Southwestern provides a rich scholarly environment for graduate study.

We are looking for undergraduate- or masters-prepared chemists who wish to pursue PhD training in an interdisciplinary research environment. The Chemical Biology Track of the Biological Chemistry Graduate Program is designed to prepare students to engage in emerging research opportunities at the crossroads of modern chemistry and discovery biology. An open house at UT Southwestern is scheduled for October 13, 2001; prospective applicants interested in participating should contact Dr. Margaret Phillips at (214) 648-8414 or Margaret.Phillips@utsouthwestern.edu.

To learn more about the UT Southwestern Chemical Biology Track, visit our web page at: http://biochemistry.swmed.edu/training/CBTP/

All PhD students are supported throughout their studies by a nationally competitive stipend. Supplemental scholarships will be offered to students with superior academic credentials.

A complete catalog of our programs, our faculty and their research interests, as well as on-line application, can be found at http://www.utsouthwestern.edu/ gradschool/.

Or contact:

Dr. Nancy Street, Assistant Dean Southwestern Graduate School of Biomedical Sciences 5323 Harry Hines Boulevard Dallas, Texas 75390-9004 Telephone 214-648-6708 Nancy.Street@utsouthwestern.edu

POSTDOCTORAL OPPORTUNITIES

POST-DOCTORAL OPPORTUNITIES Department of Microbiology & Molecular Genetics Medical College of Wisconsin http://www.mcw.edu/microbiology

Post-doctoral opportunities are available in several active research groups within a dynamic and interactive department with newly renovated space, state-of-the-art equipment and core facilities. The Medical College of Wisconsin is expanding and developing multiple interdisciplinary initiatives. Milwaukee offers diverse cultural and recreational opportunities, affordable housing, good schools and a variety of career opportunities.
Post-doctoral opportunities include:

- Dr. Joseph Barbieri bacterial pathogenesis: molecular mechanisms of toxin action
- Dr. Michael Dwinell- mucosal immunology: chemokines and chemokine receptors in intestinal epithelia
- Dr. Dara Frank- bacterial pathogenesis: type III secretion and the regulation of toxin expression in Pseudomonas aeruginosa
- Dr. Robert Fritz- cellular immunology: regulation of experimental autoimmune encephalomyelitis by NK and NKT cells
- Dr. Ming Lei- molecular genetics: regulation of cell-cycle dependent initiation of DNA replication in S. cerevisiae
- Dr. Roy Long- molecular genetics: mRNA localization in S. cerevesiae
- Dr. Mark McNally- molecular genetics: mRNA splicing and polyadenylation
- Drs. Jerry Taylor/Kent Wilcox- molecular genetics and virology: cellmediated repression of herpesvirus gene expression
- Dr. Paula Traktman- molecular genetics and virology: kinase/phosphatase signaling and DNA replication in vaccinia virus
- Dr. Thomas Zahrt- bacterial pathogenesis: two-component signaling systems in Mycobacterium tuberculosis

Interested candidates should apply to: Dept. of Microbiol. & Molecular Genetics, Medical Coll. of Wisconsin, 8701 Watertown Plank Rd., Milwaukee, WI 53226. EEO/AA/M/F/D/V

POSITIONS OPEN

CHEMISTRY DEPARTMENT UNIVERSITY OF UTAH

Three TENURED or TENURE-TRACK POSI-TIONS are available. Applications will be considered in all areas of chemistry and at all levels, although those complementing our current faculty are most desirable. Candidates are expected to demonstrate the background, motivation, and ability to develop vigorous, competitive research programs and to be excellent teachers at the undergraduate and graduate levels. A Ph.D. is required; postdoctoral experience is desirable. Applicants for junior-level positions should send an application letter, a description of proposed research, detailed curriculum vitae, and should arrange for three letters of recommendation to be sent directly to the address below. Senior applicants should send an application letter and curriculum vitae. We do not accept applications by e-mail. To direct the applications to the appropriate subcommittee, applicants should indicate in their cover letter the areas of chemistry in which their teaching and research interests lie. Review of applications will begin Monday, October 1, 2001, and continue until suitable candidates are identified. Reply to:

Search Committee Department of Chemistry University of Utah 315 South 1400 East, Room 2020 Salt Lake City, UT 84112-0850

The University of Utah is an Affirmative Action/Equal Employment Opportunity Employer, encourages applications from women and minorities, and provides reasonable accommodation to the known disabilities of applicants and employees.

ASSISTANT PROFESSORS OF BIOLOGY, Haverford College. Outstanding individuals for two tenure-track positions to begin fall 2002: a Molecular Neurobiologist who participates in the Area of Concentration in Neural and Behavioral Sciences, and a Molecular Microbiologist. Successful candidates will contribute to a vibrant curriculum and receive teaching credit for maintaining active research programs engaging undergraduate students in the study of important biological problems. Interest in developing classes for interdisciplinary students or nonscience majors welcomed. At least two years of postdoctoral research experience required. Send letter of application; curriculum vitae; statements of research plans and teaching interests; and three current letters of reference by October 15, 2001, to: Merleen Macdonald, Search Secretary (Neurobiology) or Terry Timberlake-Kinter, Search Secretary (Microbiol-ogy), Haverford College, 370 Lancaster Avenue, Haverford, PA 19041-1392. Questions to: Karl Johnson, Chair; e-mail: kjohnson@haverford.edu; website: http://www.haverford.edu. Haverford Col-lege is an Equal Opportunity/Affirmative Action Employer and, to diversify its faculty and enrich its curriculum, women and minority candidates are especially encouraged to apply.

FACULTY POSITION IN BIOCHEMISTRY DEPARTMENT OF CHEMISTRY The City College, CUNY

The City College of New York (CCNY) invites applications for a tenure-track appointment as AS-SISTANT/ASSOCIATE PROFESSOR in the Department of Chemistry to develop an active, externally funded research program and to teach and mentor undergraduate, Master's, and Doctoral students. Requirements: Ph.D., postdoctoral experience or its equivalent, and a proven research record in biochemistry. Research interest in organic chemistry is desirable but not essential. Level of appointment and salary commensurate with experience and accomplishments. Send curriculum vitae; a description of current and future research plans; selected reprints; and arrange for three recommendations/letters of reference to be sent by October 31, 2001, directly to: Professor Horst Schulz, Faculty Search Committee, Department of Chemistry, The City College, CUNY, Convent Avenue at 138th Street, New York, NY 10031. An Affirmative Action/Equal Employment Opportunity/Americans With Disabilities Act/Immigration Reform and Control Act Employer.

POSITIONS OPEN

UNIVERSITY OF CALIFORNIA, SAN DI-EGO: faculty position in physical chemistry. The Department of Chemistry and Biochemistry at UC San Diego is expanding its commitment to research in physical chemistry and related interdisciplinary fields as shown by the recent recruitment of three seniorlevel faculty in this field (see website: http:// chem.ucsd.edu). Applications are invited for a faculty position with strong preference for the ASSISTANT PROFESSOR level in physical chemistry in the broadest sense. Candidates must have a Ph.D., a strong record of research accomplishment, and a forward-looking research plan that pioneers new areas of investigation. The successful candidate will be expected to teach at both the graduate and undergraduate levels. Applicants should provide curriculum vitae, a detailed research plan (three to five pages), and a brief teaching plan to: The Physical Chemistry Search Committee 3-911S, UCSD Department of Chemistry and Biochemistry, 9500 Gilman Drive MS 0332, La Jolla, CA 92093-0332. Candidates should also arrange to have three letters of reference sent under separate cover. All applications received before November 1, 2001, will be considered. Salary commensurate with qualifications and based on University of California pay scale. UCSD is an Equal Opportunity/Affirmative Action Employer with a strong institutional commitment to the achievement of diversity among its faculty and staff.

The Department of Pharmacology at the University of South Florida College of Medicine is seeking a tenure-track faculty member at the level of **ASSIS-TANT/ASSOCIATE PROFESSOR**. The successful candidate will be expected to establish an independent research program, interface with ongoing programs in neuro- and cardiovascular pharmacology, and teach medical and graduate students. Required qualifications include a Ph.D. and relevant postdoctoral experience. Please forward (electronically or by mail) a statement of research interests, curriculum vitae, and the names and addresses of three references to: Dr. Lynn Wecker, Distinguished Professor and Chair, Department of Pharmacology and Therapeutics, University of South Florida College of Medicine, MDC Box 9, 12901 Bruce B. Downs Boulevard, Tampa, FL 33612-4799. E-mail: lwecker@hsc.usf.edu. Review of applications begins August 30, 2001. Position will remain open until filled.

USF is an Equal Opportunity/Affirmative Action/Equal Access Institution. For disability accommodations in order to participate in the selection process, contact: Ms. Glendora Flanders-Ghani; Telephone: 813-974-3823; MDC-9, Department of Pharmacology and Therapeutics, 12901 Bruce B. Downs Boulevard, Tampa, FL. E-mail: gflander@hsc.usf.edu a minimum of five working days in advance. According to Florida law, applications and meetings regarding them are open to the public.

ASSISTANT PROFESSOR ANIMAL PHYSIOLOGY

The Biology Department at Bradley University seeks applications for a tenure-track faculty position in animal physiology to begin August 19, 2002. Duties will include teaching human physiology for allied health science students, developing or participating in one or more courses at the upper level, maintaining an active research program, and involving undergraduates in research. Typical teaching loads are nine contact hours per semester plus supervising undergraduate re-search. Qualifications include a Ph.D., one year of postdoctoral experience, and a demonstrated commitment to undergraduate teaching and research. More information is available at website: http://www-.bradley.edu/personnel. For full consideration, send letter of interest; curriculum vitae; transcripts; statements of teaching and research interests; and have three letters of reference sent by October 15, 2001, to: Dr. Kelly McConnaughay, Department of Biology, Bradley University, Peoria, IL 61625. Applicant screening will begin October 15, 2001, and will continue until the position is filled. Bradley University is an Equal Employment Opportunity/Affirmative Action Employer and encourages applications from underrepresented groups

POSITIONS OPEN

REPRODUCTIVE BIOLOGY

The Department of Biological Sciences at California State University Long Beach invites applications for a Reproductive Biologist at the ASSISTANT or ASSOCIATE PROFESSOR level starting August 2002. A Ph.D. in the biological sciences with training and research in an area of reproductive biology is required. Candidates must have a strong commitment to teaching reproductive biology at the undergraduate and M.S. levels and participating in introductory/ intermediate core courses in an ethnically and culturally diverse campus community. Must have a record of published research and show potential for developing and sustaining an independent, externally funded research program involving students. Postdoctoral or other professional research experience preferred. Submit a letter of application, curriculum vitae, a detailed statement of research and teaching interests, statement of ability to work in an ethnically and culturally diverse campus, reprints of two relevant publications, and three letters of recommendation to: Dr. Laura Kingsford, Chair, Attention: Reproductive Biolo-gy Search, Department of Biological Sciences, gy Search, Department of Biological Sciences, California State University, Long Beach, CA 90840-3702. Telephone: 562-985-4807; e-mail: souto 3/02, reception of the south set south sou Employer committed to excellence through diversity and takes pride in its multicultural environment. An Equal Employment Opportunity/Affirmative Action/Title IX Employer.

PALEONTOLOGY/BIOGEOSCIENCE. The Department of Geological Sciences of the University of Oregon invites applications for an entry-level, **TENURE-TRACK POSITION** to begin in fall 2002. We seek a Researcher with interests in fundamental problems of paleontology and biogeosciences including the origin and evolution of life; evolutionary radiations; mass extinctions; and relationships among organisms, geochemical cycles, and environmental change. Our interests are broad and range from microbial biogeology to vertebrate paleontology.

The successful applicant will be expected to develop an academically oriented, externally funded research program and to contribute to the teaching of undergraduate paleontology and advanced courses in his/ her research specialty. Completion of the Ph.D. is required.

Åpplicants should send curriculum vitae, statement of teaching and research interests, and contact information for at least three references to: **Biogeoscience Search Committee, Department of Geological Sciences, 1272 University of Oregon, Eugene, OR 97403-1272.** We will begin reviewing applications November 1, 2001, and will continue until the position is filled.

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

TENURE TRACK, BIOCHEMISTRY ASSISTANT/ASSOCIATE RANK Fall 2002

Ph.D. in chemistry, biochemistry, or equivalent is required; postdoctoral experience preferred. Excel-lence in teaching and research at both the undergraduate and graduate level is expected. Teaching is primarily in the area of biochemistry and may include upper-division lecture and laboratory, graduate lecture, and upper-division general education courses. The research area should complement current faculty interests. The candidate is expected to establish an independent research program involving undergraduate and Master's-level students. Review of applications will begin after October 15, 2001. Interviews will continue until the position is filled. Send curriculum vitae, transcripts, statements of teaching interests/philosophy and research plans, and three letters of recommendation to: Chair, Department of Chemistry, San Jose State University, San Jose, CA 95192-0101. Please reference PVIN SCI 02-001. San Jose State University is an Equal Opportunity/ Affirmative Action Employer. Minorities and women are strongly encouraged to apply.
BIOLOGY FACULTY POSITIONS San Diego State University

Two tenure track appointments are offered in the Biology Department to begin as soon as Fall 2002. Ph.D. required and post-doctoral experience preferred Successful applicants will be expected to establish externally funded research programs involving B.S., M.S. and Ph.D.students and to interact with a diverse student body. Consideration will include the candidate's perceived match to our programmatic strengths including research emphases, teaching innovation and student mentoring

1. Quantitative Conservation Ecologist (Assistant Professor). Research interests should include but need not be limited to population viability analysis, risk assessment, simulation-based modeling across landscapes, individualbased modeling, or a blend of field-based studies and mathematical or simulation-based methods in population demography. Primary teaching responsibility will be an upper division/graduate level course in population dynamics Periodic participation in undergraduate biostatistics, conservation ecology and general ecology will also be expected. Candidate should be able to interact with 13 faculty with research emphases in coastal marine ecology, ecosystem/ global change, conservation/restoration ecology.

2. Plant/Algal Evolutionary Biologist (Assistant Professor). Desirable research interests include any area of the evolutionary biology of land plants or algal groups, such as population/quantitative genetics, natural selection, speciation, reproductive biology, systematics, or integrative anatomy, development, or biomechanics. Teaching will include a course in plant biology, team teaching in general biology courses, and a graduate course in an area of expertise. Candidate should be able to interact with an active group of 9 faculty interested in broad questions in evolutionary biology.

More information on both positions is available at http://www.sci.sdsu.edu/ fac-recruitment. Review of applications begins October 8, 2001 for the Ecology position and December 1, 2001 for the Evolutionary Biology position and will continue until the positions are filled. Applicants for either position should submit a curriculum vitae, separate statements of research and teaching interests, 3 representative publications and arrange for 3 letters of recommendation to be sent to the Quantitative Conservation Ecology Search Committee or Plant/Algal Evolutionary Biology Search Committee, Department of Biology, San Diego State University, San Diego, CA 92182-4614. SDSU is proud of our diverse student population. SDSU is an Equal Opportunity employer and does not discriminate against persons on the basis of race, religion, national origin, sexual orientation, gender, marital status, age or disability

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Scientist/Postdoctoral Fellows Gene Therapy Vectors (2 positions)

MYGEN

Successful candidates will perform adeno-associated virus and gene therapy vector improvement projects which will include planning, management and conduct of experiments. Ph.D. in Molecular Biology or Virology and strong molecular biology, tissue culture, virology and excellent communication skills required. Experience with AAV preferred although experience with adenovirus and other viral vectors will be considered. Job #VX-225

Scientists - Vaccine Development

Positions available to perform research on vaccine improvement projects. Ph.D., at least 2 years post doctoral experience with strong molecular biology, tissue culture, virology and excellent communication skills required. Must have experience with Picomaviridae. Industry experience preferred. Job #VX-227

Scientist - Plant/Pest Interaction

Responsibilities will include shuffling of genes that encode insectidal and/or nematicidal proteins; development of gene expression in bacteria and/or yeast; development of high throughput enzyme assay and protein isolation protocols; and collaboration with team on new project ideas in insect and/or nematode control. Ph.D. In Molecular Biology, 2 years post doctoral experience and a strong publications track record required. Job #AG-224

For more information, please visit our website. Send resumes referencing job No. to: Maxygen, Human Resources, 515 Galveston Drive, Redwood City, CA 94063 or email to: jobs@maxygen.com. Great minds, Great diversity, EOE,



biopharmaceutical company, located

in Westchester County, NY, is dedicated to the development of therapies for spinal cord injury and other central nervous system conditions. Presently, we seek the following professionals:

Director, Animal Model Core Facility

Lead a state-of-the-art facility using defined animal modes to identify/develop therapeutics for spinal cord injury & related neurological disorders. Successful candidate will preferably be a DVM with 5-10 years experience in lab animal medicine & surgery, however qualified candidates with Ph.D. or MD degrees will also be considered. Industry experience preferred & high level of organization/precision required. Outstanding management, leadership/communications skills required and preference for working in a team-oriented, matrix-management environment essential

Scientist (Animal Models of Spinal Cord Injury Experience)

Join a team of scientists working to develop/use animal models to explore & valdate therapeutic approaches to spinal cord injury & related neurological disor-ders. Ph.D. in Neuroscience or related discipline; industry experience preferred & high level of organization/precision required. Outstanding technical, scientific & communication skills required & preference for working in a team-oriented matrix-management environment essential.

Scientist (Protein Chemistry Experience)

Will possess a Ph.D. in Biochemistry, Molecular Biology or related discipline. General expertise in protein expression, purification & analysis required & specific experience working with antibodies preferred. Industry experience a plus and a preference for working in a team-oriented, matrix-management environment essential

Research Associate (Laboratory Animal Surgery)

Several years experience in lab animal science. Small animal surgery experience data analysis & general lab duties. High level of organization/precision essential with strong communication/teamwork skills.

Research Associate (Neurobiology)

Work with a team of scientists to explore potential therapeutics for spinal cord injury & related neurological disorders. BS degree in biology or related discipline, one or more years of lab experience & excellent team skills required. Experience in tissue culture techniques, small animal surgery, histology, bio-chemistry & image analysis desired. Industry experience preferred.

Research Associate (Animal Behavior)

Interested in the testing/analysis of animal behavior in neurological conditions. Responsibilities include the performance, evaluation & reporting of various behavioral tests, including the implementation of new lapproaches. BS degree in biology or related discipline, one or more years of lab & animal handling experience preferred. Strong interest in animal behavior & excellent team skills required. Industry experience a plus.

Research Associate (Histology)

Will possess extensive training/experience in histological methods. Expertise in immunohistological techniques applied to the nervous system preferred. Strong communication/teamwork skills required. Industry experience highly desired

Animal Care Technician

Involved with daily care/maintenance of lab animals. Additional responsibilities may include assisting with small animal surgeries, behavioral testing & gener-al lab duties. Strong communication, teamwork skills and dedication to animal welfare required.

Postdoctoral Fellows

Recent or future Ph.D. graduates in neuroscience or related disciplines are encouraged to apply for postdoctoral positions at Acorda. Postdoctoral Fellows will have an opportunity to conduct high-caliber research in Acorda's cutting-edge facility while contributing to the development of therapeutics for spinal cord injury & related neurological disorders.

We offer competitive compensation and excellent benefits. Please send resume, *indicating position desired*, to: Acorda Therapeutics, 15 Skyline Drive, Hawthorne, NY 10532, Fax: (914) 347-4560, email: humanresources@acorda.com

Visit our website at: www.acorda.com



FACULTY POSITIONS DEPARTMENT OF CHEMISTRY Boston College

Applications are invited for two tenure-track faculty positions effective September 2002. Areas of interest include but are not limited to physical, materials, analytical, organic, inorganic, and biological chemistry as well as related interdisciplinary areas. Successful applicants are expected to establish a prominent, externally funded research program and will join a department of approximately 100 Doctoral students, 25 Postdoctoral Fellows, and an internationally recognized faculty. Applicants at the beginning ASSIST-ANT PROFESSOR level should indicate the area or areas of their research and teaching interests by submitting both a detailed research plan and a brief statement of teaching interests along with their curriculum vitae and a summary of previous research accomplishments. In addition, applicants should arrange to have three letters of reference transmitted. Established Investigators should send a letter of application and appropriate supporting materials. All materials should be sent to: Chair, Faculty Search Committee, Department of Chemistry, Boston College, Chestnut Hill, MA 02467. Website: http://chemserv. bc.edu; FAX: 617-552-2705. The application deadline is Óctober 15, 2001. Boston College, university of 14 schools and colleges, is an Equal Opportunity Employer and supports Affirmative Action.

The Department of Biological Sciences at the University of Pittsburgh is currently seeking qualified applicants for a visiting faculty position at the rank of **LECTURER** in biological sciences. The position is outside of the tenure track. The position would include teaching duties in developmental biology and introductory biology. This position also would involve teaching a summer workshop for high school teachers.

Applicants for the position should have a Ph.D. in biological sciences. The position may require some team teaching. For more information about our department, visit our website: http://www.pitt.edu/ biology. The positions will be on a 12-month basis and full-time subject to annual review. The initial appointment may be for one to three years depending on the qualifications and experience of the candidate. The appointment requires administrative approval. Submit a letter of interest, curriculum vitae, and three letters of reference to: Dr. Lynne A. Hunter, Department of Biological Sciences, A234 Langley Hall, University of Pittsburgh, Pittsburgh, PA 15260. Applications must be received by October 5, 2001. The University of Pittsburgh is an Affinative Action/ Equal Opportunity Employer. Women and members of minority groups underrepresented in academia are especially encouraged to apply.

FACULTY POSITION, NEUROSCIENCES University of California San Diego School of Medicine

The Department of Neurosciences is seeking applications and nominations for tenure-track or tenured positions at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR levels. The candidate must be an accomplished Scientist and recognized leader in cellular and molecular biological research related to the nervous system with proven ability as a scholar and a teacher. The successful candidate's interests should complement the existing strengths of the Department. Areas of expertise desired include mammalian neurogenetics, neurodevelopment, or neuronal cell death. The candidate's experience will dictate the lev-el of appointment. Applications will be reviewed be-ginning October 1, 2001, and will continue to be accepted until the position is filled. Salary will be commensurate with rank and experience and will be based on University of California pay scales. Current curriculum vitae and three letters of reference under separate cover should be sent to: Edward Koo, M.D., Chair, Neurosciences Search Committee, c/o Peggy Chambers, UCSD, 9500 Gilman Drive, La Jolla, CA 92093-0624. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

FACULTY POSITION PLANT MOLECULAR BIOLOGY Indiana University, Bloomington

The Department of Biology invites applications for a tenure-track **ASSISTANT PROFESSOR** position in the area of plant molecular biology. Candidates should be investigating fundamental questions specific to plant biology at a mechanistic level.

IU–Bloomington is significantly expanding in the life sciences. These efforts include construction of two major research buildings; a new interdepartmental initiative in biochemistry and biophysics; and numerous recent hires that have greatly expanded our strengths in the area of microbiology, biochemistry, structural biology, cell and developmental biology, molecular evolution, and ecology. We are now expanding in the plant sciences and will be hiring at least two additional Plant Molecular Biologists in the next few years. For more information about the Biology Department and for links to information about the campus and the Bloomington community, see website: http:// www.bio.indiana.edu.

Candidates should send curriculum vitae; a statement of research (past, present, and planned); representative publications; and arrange to have three (or more) letters of recommendation sent to: Dr. Roger Innes, Plant Molecular Biology Faculty Search, Department of Biology, Indiana University, 1001 East Third Street, Bloomington, IN 47405-3700. Review of applications will begin October 15, 2001, and will continue until suitable candidates are identified. Indiana University is an Affinnative Action/Equal Opportunity Employer. Women, minority candidates, and couples are encouraged to apply.

STAUFFER ASSISTANT PROFESSOR ANALYTICAL CHEMISTRY California Lutheran University

The California Lutheran University Department of Chemistry invites applications for a tenure-track appointment as the Stauffer Assistant Professor of Analytical Chemistry to begin fall 2002. Individuals with interests in environmental and/or inorganic chemistry with interdisciplinary applications are especially invited to apply. Candidates must possess a Ph.D. in chemistry and must be committed to excellence in teaching and in developing an active research pro-gram that involves undergraduates. Funds will be available. Prior experience in teaching and postdoctoral research is desirable. The successful candidate will teach undergraduate courses in analytical chemistry, in the introductory/general chemistry courses, and advanced courses in areas of interest. Submit a letter of application, curriculum vitae, statement of teaching philosophy and of research plans, and have three letters of recommendation sent to: Stauffer Chemistry Search Committee 3700, California Lutheran University, 60 West Olsen Road, Thousand Oaks, CA 91360. To ensure full consideration, all materials should be received by October 15, 2001. You may visit the CLU website: http://www. clunet.edu for more information about our university. CLU is an Equal Opportunity Employer. The University encourages candidates who wll contribute to the cultural diversity of CLU to apply.

ASSISTANT PROFESSORSHIPS INORGANIC, ORGANIC, AND PHYSICAL CHEMISTRY Harvard University

Department of Chemistry and Chemical Biology

Applicants are invited to apply for Assistant Professorships in inorganic, organic, and physical chemistry. Applicants should arrange to have three letters of recommendation sent independently and should provide curriculum vitae, a list of publications, and outlines of two future research projects. Applications and supporting materials should be sent to: Chair, c/o Ms. Carol Gonzaga, Department of Chemistry and Chemical Biology, Harvard University, 12 Oxford Street, Cambridge, MA 02138-2902. Harvard University is an Affinnative Action/Equal Opportunity Employer and welcomes applications from women and minority group members.

POSITIONS OPEN

Michigan State University invites nominations/applications for the position of CHAIRPERSON, De partment of Pharmacology and Toxicology. The position offers the exciting opportunity of hiring new faculty and directing one of this university's essential basic science departments. Extensive educational and research interactions are possible given the unique affiliation of the Department with the Colleges of Human, Osteopathic, and Veterinary Medicine and the research funding opportunities provided by the Michigan Life Science Corridor Research Fund. Candidates must have a Ph.D. or other advanced degree with an outstanding record of research in pharmacology and/or toxicology and must be nationally recognized leaders in their fields. It is anticipated that the successful candidate will maintain an active, extramurally funded research program. The Department has major research emphases in the areas of cardiovascular pharmacology, neuropharmacology, and inflammation/immune modulation and toxicology; preference will be given to candidates demonstrating excellence in one of these areas. A strong interest in professional and graduate education and demonstrated leadership and administrative skills are essential. Applications should include a statement of interest in the position, curriculum vitae, and names of three potential references (not to be contacted until approval is received from the applicant). Electronic applications are encouraged but paper materials also will be accepted. Applications should be sent to: David I. Kaufman, D.O., Chair of Search Committee, c/o Kimberly Betts, Office of the Dean, A309 East Fee Hall, Michigan State University, East Lansing, MI 48824. E-mail: bettski@msu.edu. The deadline for receipt of these materials is October 5, 2001, MSU is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply. People with disabilities have the right to request and receive reasonable accommodation.

PHYSICAL GEOGRAPHER University of San Diego

The University of San Diego (USD) Marine and Environmental Studies program invites applications for a tenure-track position beginning in the fall of 2002. The University is looking for a Physical Geographer with training in GIS and with interests in environmental problems. Teaching responsibilities may include courses in GIS and environmental assessment, a lower-division course in physical geography, and an upper-division or graduate course in an area of expertise. USD is an independent Catholic university whose primary aim is teaching excellence. Scholarship is integral to this aim, and a candidate is expected to establish an active research program. Faculty are expected to involve undergraduate and graduate (M.S.) students in their research. Applicants should submit curriculum vitae; a brief statement of teaching philosophy and research interests; and a list of three references by October 19, 2001, to: Director, Marine and Environmental Studies Program, University of San Diego, 5998 Alcala Park, San Diego, CA 92110-2492. USD is an Affirmative Action/Equal Op-portunity Employer. Women and minorities are particularly encouraged to apply.

TENURE-TRACK FACULTY POSITION

As part of an aggressive building program in biology, the Georgia Institute of Technology is searching for a tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** in the area of ecological modeling/ theoretical ecology. The area of specialty is open but applicants using field or laboratory experiments to test models of mechanisms and processes affecting ecological patterns would fit well with present faculty (many of whom have aquatic interests; see website: http://www.biology.gatech.edu). Applicants should send résumé, three letters of reference, up to three reprints, and a statement of research and teaching interests to: Ecological Modeling Search Committee, School of Biology, Georgia Institute of Technology, Atlanta, GA 30332-0230. Applications will be considered beginning October 15, 2001. Georgia Institute of Technology is a unit of the University System of Georgia and an Affinative Action/Equal Opportunity Employer.

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PHYLOGENETICS AND EVOLUTION

Lewis and Clark College invites applications for a tenure-track **ASSISTANT PROFESSOR** position in phylogenetics and evolution beginning September 2002. We seek a broadly trained individual who integrates molecular, evolutionary, and organismal approaches. To fill curricular needs, experience working with terrestrial and/or aquatic invertebrates strongly preferred. Candidates should be committed to excellent teaching and to developing an externally fundable research program involving undergraduates. Ph.D required; postdoctoral experience preferred. Successful applicants will teach in the core program for biology majors and will be expected to teach upper-division courses in invertebrate biology; evolution; and one additional course such as entomology, biogeography, paleontology, or conservation biology.

Submit letter of application including descriptions of teaching interests and philosophy and research goals, curriculum vitae, representative reprints, graduate transcripts, and three letters of recommendation to: Chair, Phylogenetics Search Committee, Department of Biology, Lewis and Clark College, Portland, OR 97219. Review of applications will begin on October 15, 2001, and continue until the position is filled. For more information, visit our website: http://www.lclark.edu/~biology. Lewis and Clark is an Equal Opportunity Employer and encourages the applications of women and minority candidates.

SENIOR FACULTY POSITION Medical Pharmacology and Toxicology

A tenure-track faculty position at the FULL PRO-FESSOR level is available in the Department of Medical Pharmacology and Toxicology, College of Medi-cine, Texas A&M University System Health Science Center. Applicant should have a strong, independent research program and experience in medical and graduate education. The position will be available in the spring of 2002. Program strengths within the Department include neuroscience, alcoholism, aging, toxicology, molecular biology, signal transduction, and ocular pharmacology (website: http://medicine. tamu.edu/pharm). An Endowed Professorship may be associated with the position depending on the research area of expertise and qualifications. Applications should include curriculum vitae, selected reprints, statement of research interests, and three letters of reference. Please send your application to: Dr. William H. Griffith, Chair, Search Committee, Department of Medical Pharmacology and Toxicology, College of Medicine, Texas A&M Univer-sity System Health Science Center, College Station, TX 77843-1114. Review of applications will begin November 1, 2001, and will continue until the position is filled. The Texas A&M University System is an Equal Opportunity Employer.

LAKE ERIE COLLEGE OF OSTEOPATHIC MEDICINE (LECOM)

The Department of Pharmacology at LECOM invites applicants with a strong teaching background in pharmacology/toxicology and research. Pharm.D. candidates are particularly encouraged to apply in ad-dition to Ph.D. candidates or equivalent. Of particular interest are applicants who will teach in areas of cardiovascular, endocrine, and neuropharmacology. Salary will be commensurate with qualifications and experience. LECOM offers a competitive salary range and comprehensive employer-paid benefits. Our school of pharmacy will start fall 2002. Applicants interested in joint appointment are also encouraged to apply. For further information about LECOM, please check our website: http://www.lecom.edu. Positions will be available as soon as February 2002. Applicants should submit a cover letter, curriculum vitae, statement of teaching philosophy, and summary of research interests to: Silvia M. Ferretti, D.O., Provost and Vice President of Academic Affairs, Lake Erie College of Osteopathic Medicine, 1858 West Grandview Boulevard, Erie, PA 16509. Review of applications begins immediately. LECOM is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

TENURE-TRACK ECOLOGY FACULTY

The Department of Ecology and Evolution at Stony Brook University seeks candidates for one or two tenure-track positions in ecology pending budgetary approval. The level is open but with a preference for an ASSISTANT PROFESSOR. We especially encourage applicants with organismal, population, and/or community-level interests or whose research incorporates functional, multilevel, and/or conservation approaches. The successful candidate will be expected to teach at undergraduate and graduate levels and to develop an externally funded research program. Detailed information about the Department's collegial and diverse faculty of 17 is available at website: http://life.bio.sunysb.edu/ee/. The campus is situated close to major marine and terrestrial research sites including 100,000 acres of pine/oak forests. Stony Brook University is in Suffolk County, Long Island, New York, which has extensive farmland and vineyards, miles of beaches, and easy access to the cultural resources of New York City. Review of applications will begin October 1, 2001, and interviews will commence November 1, 2001. Applicants should send curriculum vitae, statements of research and teaching interests, selected reprints, and have three letters of reference sent to: Search Committee, Department of Ecology and Evolution, Stony Brook University/SUNY, Stony Brook, NY 11794-5245. Applicants at the ASSO-CIATE or FULL PROFESSOR rank should send names of three people who can serve as references. Stony Brook University is an Equal Opportunity/Affirmative Action Employer. Applications from women, people of color, disabled persons, and/or special disabled or Vietnam-era veterans are especially welcome

FACULTY POSITION The University of Texas at Austin

The Department of Physics of The University of Texas at Austin invites applications for a tenure-track ASSISTANT PROFESSORSHIP starting September 2002. This is a research and teaching position. Applicants must have a Ph.D. (or equivalent) and should have a proven record of experimental research in biological physics, soft condensed matter, and/or nonlinear/nonequilibrium phenomena. The success-ful candidate will assume full teaching responsibilities in the Department of Physics. Prior teaching experience is desirable, and excellent English language communication skills are required. In exceptional cases, a more senior appointment with tenure will be considered. Applicants should send curriculum vitae, a list of publications, a statement of research accomplishments, a research plan, and arrange for at least five letters of reference to be sent to: Professor Roy Schwitters, Chairman, Department of Physics, The University of Texas at Austin, Austin, TX 78712-1081. Review of completed applications will begin October 1, 2001, and will continue until the position is filled. The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION Department of Chemistry and Biochemistry

The Department of Chemistry and Biochemistry, University of Maryland at College Park, invites application for a tenure-track position in biochemistry at the **ASSISTANT PROFESSOR** level. Candidates with interests in developing outstanding research programs in molecular studies of significant biological problems are encouraged to apply. The successful candidate may participate in several graduate programs including the Biochemistry and the Molecular and Cellular Biology programs. Please submit curriculum vitae, a three- to four-page description of research plans, and arrange to have three letters of reference sent to: Biochemistry Search Committee, Department of Chemistry and Biochemistry, University of Maryland, College Park, MD 20742-2021. Applications should be received by November 1, 2001, for best consideration. UMCP encourages applications from women and minorities and is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

CELL/MOLECULAR BIOLOGY

The Department of Biological Sciences at the University of Notre Dame invites applications for two **TENURE-TRACK FACULTY POSITIONS** at the junior or senior level in cell and molecular biology beginning fall semester 2002. Ph.D. and/or M.D. Scientists should have postdoctoral research experience and are expected to develop a competitive research program and contribute to teaching. Teaching responsibilities consist of one course per semester to include one undergraduate course in genetics, cell biology, molecular biology, or developmental biology and graduate teaching in an area of expertise.

We are particularly interested in individuals who complement existing research expertise in cell and molecular biology, which includes molecular motors, membrane trafficking, mitosis, apoptosis, nuclear receptors, signal transduction, molecular genetics of visual processes, molecular and cellular nutrition, and tumor biology. The candidate's specific area of research is less important than a demonstrated record of excellence, originality, and productivity in research. The Department provides an excellent research environment including state-of-the-art optical imaging, flow cytometry and cell sorting, automated histology and laser capture microdissection, and gene array facilities. The University also maintains excellent animal care transgenic facilities and has recently committed additional funding to the Center for Zebrafish Research. Additional information is available at website: http://www.science.nd.edu/biology

The University of Notre Dame offers competitive salaries and generous start-up packages. Review of applications will begin as they are received and will continue until the positions are filled. Applicants should submit curriculum vitae, a brief description of research accomplishments, a statement of research objectives, a summary of teaching experience, and a statement of teaching interests and philosophies. Candidates should also have three letters of recommendation sent to: Cell and Molecular Biology Search, Department of Biological Sciences, University of Notre Dame, P. O. Box 369, Notre Dame, IN 46556-0369. The search will close on December 15, 2001. For more information, contact: Dr. Neil Shay; e-mail: nshay1@nd.edu. The University of Notre Dame is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

FACULTY POSITION in large animal reproduction. The Department of Clinical Studies, New Bolton Center, University of Pennsylvania School of Veterinary Medicine, invites applications for a fulltime, tenure-track position in large animal reproduction. The position involves research and teaching of large animal reproductive biology. The new laboratory will be part of the Center for Animal Transgenesis and Germ Cell Research (Hans Schöler, John McLaughlin, Ina Dobrinski, Regina Turner) and a primary responsibility of the candidate will be translational research in collaboration with the Center, particularly in the field of germ cell/stem cell biology. The successful applicant must have demonstrated research capabilities in reproductive biology and will be expected to establish an independent research program. The candidate is expected to participate in the academic program of the Section of Reproduction including didactic and laboratory teaching of veterinary students and residents. Qualifications include a V.M.D. (or equivalent)/Ph.D. or Ph.D. in reproductive biology. Preference will be given to candidates with additional postdoctoral training and the capability of attracting extramural funding. Salary and rank will be commensurate with qualifications and experience. Application must be received by November 1, 2001. Applicants should submit curriculum vitae, letter of intent, and names and addresses of three references to: Dr. David Nunamaker, Chairman, Department of Clinical Studies, New Bolton Center, 382 West Street Road, Kennett Square, PÁ 19348. New Bolton Center is in a rural setting approximately 35 miles southwest of the main University campus in Philadelphia. The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.

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OPPORTUNITY FOR OBTAINING DNA SEQUENCE OF REGIONS OF HIGH BIOMEDICAL INTEREST FROM MODEL ORGANISM GENOMES

Next Submission Date: October 1, 2001

The National Institutes of Health has expanded the list of organisms eligible for sequencing under the current NIH Mouse BAC Sequencing Program to include all animals, fungi, and eukaryotic protists (http://grants.nih.gov/grants/guide/notice-files/NOT-HG-01-002.html). This program change is intended to address the interest of the larger biomedical research community in obtaining sequence information about specific regions of genomic DNA of biomedical or biological significance.

Several of the sequencing centers in the National Human Genome Research Institute's Genome Sequencing Network will dedicate a fraction of their sequencing capacity to this initiative. Investigators may submit requests to have one or more BAC clones sequenced from one or more eligible organisms (plants and prokaryotes are excluded). Requests may be for 4-fold coverage, 6-10-fold coverage, or finished sequence. Any BAC sequenced from the mouse RPCI-23 library or the rat BAC library designated for genomic sequencing will be finished so that the sequence will be maximally useful to the centers generating the sequence of the entire genome. Requestors whose projects have been approved must also provide the BAC clone(s) to the participating sequencing centers.

An Investigator interested in obtaining the sequence of a specific region of genomic DNA that has been cloned in a BAC may submit a short, Web-based request describing the region, its importance, and its readiness to be sequenced. A panel of peer reviewers will consider the requests and advise the NHGRI on the priority of the regions requested. Those judged to be sufficiently important to warrant priority sequencing will be listed for the centers engaged in mouse genomic sequencing to choose and sequence, up to the maximum capacity available for this activity.

There will be no cost to investigators seeking this sequencing service; the sequencing will be done by centers that have already been funded through the Network. However, as with all sequence data generated by the Human Genome Project, unfinished data will be submitted to GenBank within 24 hours of generation of 2kb assemblies, and finished data as soon as completed. No sequence data will be made available to the requestor prior to public release. All publications using this data must acknowledge the publicly funded sequencing effort. If BAC clones that are approved for sequencing are not available commercially, the requestor must agree to make the clone(s) available for distribution in an expeditious manner upon publication using any or all of the data generated by the public effort.

For a more complete description of the program and to access the request form, please visit our website: http://mouse.info.nih.gov.

To discuss programmatic issues contact: Bettie J. Graham, Ph.D. National Institutes of Health; Bethesda, MD 20892-2033 Email: bettie_graham@nih.gov; TEL: (301) 496-7531 To discuss review issues contact: Jerry Roberts, Ph.D. National Institutes of Health; Bethesda, MD 20892-2032 E-mail: jerry_roberts@nhgri.nih.gov; TEL: (301) 402-0838



Howard Hughes Medical Institute

⁶⁶The fellowship tremendously



Photo by William K. Geiger

Angelica L.M. Cadavid Former HHMI Predoctoral Fellow at the University of Texas-Austin boosted my motivation and freedom to develop my scientific potential.[?]



Angelica Cadavid, Ph.D., is interested in how complex multicellular structures arise during development. Her thesis project focused on the fruit fly eye as a system for the genetic dissection of one biochemical pathway that is involved in cell interactions critical to eye morphogenesis. Research on such essential proteins and pathways will contribute to our understanding of many fundamental aspects of cell and developmental biology.

The Howard Hughes Medical Institute has established fellowship programs that support training in fundamental biological and biomedical research. Graduate students, medical students, and physicians may be eligible to apply for the programs listed below.

Predoctoral Fellowships in Biological Sciences Five years of support for full-time graduate study toward a Ph.D. degree in designated biological sciences or related fields. (Application deadline: November 13, 2001.)

Research Training Fellowships for Medical Students Support is awarded for one year of full-time fundamental research in a laboratory at the student's medical school or another institution (except NIH in Bethesda, Maryland). (Application deadline: November 15, 2001.)

Research Scholars at the National Institutes of Health Under this joint HHMI–NIH program, medical students in the United States spend an intensive year of research in the intramural program at NIH in Bethesda, Maryland. (Application deadline: January 10, 2002.)



The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and underrepresented minorities to apply.

For more information: www.hhmi.org/fellowships

D

DORIS DUKE

CLINICAL SCIENTIST DEVELOPMENT AWARD

The foundation is pleased to announce that the following individuals have been offered awards in 2001:

Amy P. Abernethy, MD Duke University Medical Center, NC

Marcus Altfeld, MD, PhD Massachusetts General Hospital

Thomas Darling, MD, PhD Uniformed Services University of the Health Sciences. MD

Elizabeth C. Dees, MD University of North Carolina at Chapel Hill

Shaffiq M. Essajee, BMBCh, MA New York University School of Medicine

Stephen Gottschalk, MD Baylor College of Medicine, TX

Priscilla Hsue, MD University of California, San Francisco **Stephen Huang, MD** Children's Hospital, MA

Peter J. Kelly, MBBCh, MMedSc Massachusetts General Hospital

Geoffrey Liu, MD Massachusetts General Hospital

Hideho Okada, MD, PhD University of Pittsburgh, PA

John Pawloski, MD, PhD Duke University Medical Center, NC

Bharat Ramratnam, AB, MD The Rockefeller University, NY

Gottfried Schlaug, MD, PhD, Beth Israel Deaconess Medical Center, MA

Kalyanam Shivkumar, MD, PhD University of Iowa College of Medicine

Details for the 2002 award competition:

The Clinical Scientist Development Award supports physician-scientists over a period of 5 years as they begin their independent clinical research careers. The award competition is limited to researchers working in cardiovascular diseases, cancer, AIDS, and sickle cell anemia and other blood disorders.

Nominations for the fifth award competition are due on November 8, 2001. Awards will be offered for junior faculty and research fellows. Junior faculty are eligible to receive \$100,000/year, and fellows are eligible to receive \$65,000/year.

The full announcement and description of this award can be found on our Web site at http://ddcf.aibs.org.

43rd Annual Clinical Conference

Drug Discovery and Clinical Evaluation in the 21st Century January 16-18, 2002

JW Marriott Hotel, Houston, Texas

Chairpersons:

Waun Ki Hong, M.D.. Gabriel Hortobagyi, M.D. Gabriel Lopez-Berestein, M.D. Robert C. Bast Jr., M.D.

he goal of the conference is to explore how we can prioritize and evaluate the ever increasing number of new drugs, antibodies, vaccines, and combination therapies that are emerging with the aid of new technologies. Speakers will represent academe, government, and the biopharmaceutical industry.

For information contact:

Office of CME/Conference Services Phone: 713.792.2222 Fax: 713.794.1724 E-mail: meetings@mdaisd1.mdacc.tmc.edu



RAPID ACCESS TO PREVENTIVE INTERVENTION DEVELOPMENT – "RAPID" National Cancer Institute

The National Cancer Institute announces the ongoing program: Rapid Access to Preventive Intervention Development (RAPID). RAPID will make available to academic investigators the preclinical and early clinical drug development contract resources of NCI's Division of Cancer Prevention. The goal of RAPID is the expeditious movement of novel molecules and concepts from the laboratory to the clinic for clinical trials of efficacy. RAPID will assist investigators who submit successful requests by providing any (or all) of the preclinical and phase 1 clinical developmental requirements for phase 2 clinical efficacy trials. These include, for example, preclinical pharmacology, toxicology, and efficacy studies; bulk supply, GMP manufacturing and formulation; and regulatory and IND support and phase 1 clinical studies. Suitable types of agents for RAPID may range from single chemical or biological entities to defined complex mixtures with the potential to prevent, reverse, or delay carcinogenesis. For more detailed information, visit the web site, http://cancer.gov/rapid.

Requests for RAPID resources are to be submitted as described in the web site. Written requests will be evaluated by a specially constituted RAPID panel, consisting of selected NCI staff and outside experts from academia and industry. Requests must be received on or before October 1, 2001. Applications should be submitted directly to the office listed below. Inquiries are encouraged, and the opportunity to clarify issues or questions is welcome. This notice has also been published in the NIH Guide. Please contact:

RAPID Program Attn: Emilia A. Richichi, Ph.D. Chemopreventive Agent Development Research Group Division of Cancer Prevention, NC1 Executive Plaza North, Room 2117 6130 Executive Blvd., Rockville, MD 20852 (overnight mail) 9000 Rockville Pike, Bethesda, MD 20892 (regular mail) Telephone: (301) 594-1165 Fax: (301) 402-0553 Email: richichi@mail.nih.gov

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Plenary Sessions (Chairperson in parentheses) Keynote Talks by Axel Ullrich, David P. Lane Functional Genomics (Jeffrey M. Trent) Angiogenesis (Renata Pasqualini)

Anti-Invasion, Anti-Metastatic Strategies (David A. Cheresh) Immunotherapeutic Approaches and Vaccines (Mary L. Disis) Chemoprevention: Basic Science to the Clinic (Raymond N. DuBois) Targeting ras/MAP Kinases (Said M. Sebti)

Signal Transduction Inhibitors (Gordon B. Mills) The Tumor Cell Cycle as a Therapeutic Target (Edward A. Sausville)

Simultaneous Workshops (Chairperson in parentheses)

Viral Vector-based Therapeutic Approaches (Stanton L. Gerson) Molecular Approaches for Tumor Cell Sensitization to Radiotherapy (Jean-Claude Horiot and Elizabeth L. Travis) Phase I/II Trials with Molecular Targeted Agents: Methodology

and Clinical Endpoints (Jaap Verweij and Susan G. Arbuck) Preclinical Models for Drug Discovery and Development (Robert A. Kramer)

Combinatorial and Medicinal Chemistry (Kenneth W. Bair) Transcription- and Chromatin-based Approaches (Stephen B. Baylin)

PLUS! Proffered Paper Sessions and Poster Sessions

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ASSISTANT/ASSOCIATE MEDICAL PROFESSOR Director, Gross Anatomy and Human Development Department of Cell Biology and Anatomical Sciences (Tenure Track) (PVN Number FY1071) CUNY Medical School/SBE The City College of New York

For accelerated B.S./M.D. program. Direct course activities; teach; conduct research; serve on committees; and supervise instructional staff including training, development, and evaluation. Qualifications: M.D., Ph.D., or Ph.D./M.D.; teaching experience in medical-oriented course; active, extramurally funded research program and research interest in cell and molecular biology, developmental biology, and neuroscience required. Rank and salary based on degree, qualifications, and experience (senior level must have well-established, extramurally funded research programs). Assistant Medical Professor (basic sciences): \$50,000 to \$73,652; (clinical): \$68,096 to \$97,471 Associate Medical Professor (basic sciences): \$60,000 to \$85,562; (clinical): \$76,905 to \$109,380. Send letter of application, curriculum vitae, statement of teaching and research plans, reprints of recent publications, and names and addresses of three references to: Abraham L. Kierszenbaum, M.D., Ph.D., Chair, Department of Cell Biology and Anatomical Sciences, The CUNY Medical School/Sophie Davis School of Biomedical Education, 138th Street and Convent Avenue, Room J-903, New York, NY 10031. Application review begins September 15, 2001, continuing until the position is filled. Details at: website: http://www.ccny.cuny.edu/positions.

POSTDOCTORAL RESEARCH ASSOCIATE Molecular Immunology (PVN Number MP710) Department of Microbiology and Immunology

To conduct studies on genomewide DNA microarray analysis of gene expression in human T cell lymphomas and leukemias. A similar approach will be used to examine normal murine and human T lymphocytes exposed to immunoregulatory stimuli. Qualifications: Must have Ph.D. or M.D. with experience in molecular biology (e.g., PCR technology) and cell culture technique with strong interest in the use of bioinformatics analysis software needed to sup-port this investigation. Salary commensurate with experience. Apply: curriculum vitae; statement of career goals; and the names, addresses, and telephone numbers of three references by November 15, 2001, to: Professor Richard Coico, Chairman, Department of Microbiology and Immunology, Room J-909, The City College, CUNY, 138th Street and Convent Avenue, New York, NY 10003. Affirmative Action/Equal Opportunity Employer/Americans With Disabilities Act/Immigration Reform and Control Act.

ASSISTANT PROFESSOR MOLECULAR GENETICS

The Biology Department at Bradlev University seeks applications for a tenure-track faculty position in molecular genetics to begin August 19, 2002. Duties will include teaching molecular and cellular biology and genetics at the introductory and upper levels, developing or participating in one or more courses at the upper level, maintaining an active research program, and involving undergraduates in research. Typ-ical teaching loads are nine contact hours per semester plus supervising undergraduate research. Qualifications include a Ph.D., one year of postdoctoral experience, and a demonstrated commitment to undergraduate teaching and research. More information is personnel/. For full consideration, send letter of interest; curriculum vitae; transcripts; statements of teaching and research interests; and have three letters of reference sent by October 15, 2001, to: Dr. Kelly McConnaughay, Department of Biology, Bradley University, Peoria, IL 61625. Applicant screening will begin October 15, 2001, and will continue until the position is filled. Bradley University is an Equal Employment Opportunity/Affirmative Action Employer and encourages applications from underrepresented groups

POSITIONS OPEN



FACULTY POSITIONS CARDIOVASCULAR PHYSIOLOGY PHYSIOLOGY OF AGING University of Pennsylvania School of Medicine Department of Physiology

The Department of Physiology seeks independent Researchers in the areas of cardiovascular physiology and the physiology of aging for ASSISTANT PRO-FESSOR (tenure-track) positions. Applicants must have a Ph.D. and/or M.D. Successful candidates will combine molecular and cellular approaches with functional assessment at the whole organ and/or organisms level. Submit curriculum vitae; full list of publications; names and addresses of three references; and a brief statement of research interests by October 31, 2001, to: Physiology Search Committee, 3700 Hamilton Walk B400, Philadelphia, PA 19104-6085. Penn is an Equal Opportunity/Affirmative Action Employer. Qualified women and minority applicants are enconraged strongly to apply

FACULTY POSITION CELL SIGNALING

The Department of Pharmacology at SUNY Upstate Medical University invites applications for a faculty position at the ASSISTANT/ASSOCIATE **PROFESSOR** level. The candidate selected will be expected to develop an exciting and independent research program in signal transduction/intracellular signaling in eukaryotic cells that complements existing strengths of the Department's cell signaling group. For details of current Departmental research programs, see website: http://www.upstate.edu/ pharm/. Requirements for the position are a Ph.D. degree or equivalent, postdoctoral experience, an excellent record of research productivity, and a willingness to contribute to graduate and medical education. Salary, space, and start-up funds are competitive with national levels. Send applications including a statement of research interests and goals, curriculum vitae, and three letters of reference to:

Richard J. H. Wojcikiewicz, Ph.D. Search Committee Chair Department of Pharmacology SUNY Upstate Medical University 750 East Adams Street Syracuse, NY 13210

SUNY Upstate Medical University is an Equal Opportunity Employer/Affirmative Action/Americans With Disabilities Act Employer strongly committed to excellence through diversity.

The Ohio State University at Mansfield is seeking a Freshwater Ecologist for a tenure-track ASSISTANT PROFESSORSHIP to begin in autumn 2002. The successful applicant will reside at the Mansfield regional campus and will be expected to teach courses in general biology, introductory ecology, and/or evolution. In addition, this person will be a member of the Department of Evolution, Ecology, and Organismal Biology on the main campus in Columbus. Regional campus faculty are expected to maintain active research programs consistent with the quality expected of faculty on the Columbus campus, with expectations for the quantity of research adjusted to compensate for differences in teaching load and research facilities. Candidates must have a Ph.D. in aquatic ecology or related field and postdoctoral experience is desirable. Please send curriculum vitae; statements of teaching philosophy and research interests; three letters of reference; and teaching portfolio materials (if available) by October 19, 2001, to: **Dr. Ted Dahl**strand, The Ohio State University at Mansfield, 1680 University Drive, Mansfield, OH 44906. OSU is an Affirmative Action/Equal Opportunity Employer. Qualified women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disabilities are encouraged to apply.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR POSITIONS Amherst College

Two full-time, tenure-track faculty positions are available for Ph.D. Chemists, one in organic chemistry and one in physical chemistry, beginning in July 2002. Both positions call for teaching at the introductory and advanced undergraduate level. Participation in interdisciplinary courses and programs is also encouraged. Successful candidates will be expected to establish a vigorous research program in which undergraduates can substantively participate. The research program in organic chemistry can be drawn from any area of experimental organic chemistry including fields that span the boundaries between organic and other chemical disciplines. Similarly, the research program in physical chemistry can be drawn from any area of experimental physical chemistry including fields that span the boundaries of physical chemistry and other sciences. Amherst College, a private, coeducational liberal arts college of some 1,600 students and 165 faculty located in the Connecticut River Valley of Western Massachusetts, participates with Hampshire, Mount Holyoke, and Smith Colleges and the University of Massachusetts in the Five-College Consortium. Applicants should submit detailed curriculum vitae, a description of their teaching and research plans, and should arrange for the forwarding of three letters of reference to: Professor Patricia B. O'Hara, Chair, Department of Chemistry, Amherst College, Amherst, MA 01002. Review of material will begin October 19, 2001. Amherst College is an Affirmative Action/ Equal Opportunity Employer and encourages women, minorities, and persons with disabilities to apply.

TENURE-TRACK POSITIONS IN BIOLOGY

The Department of Biology at Portland State University invites applications to fill three tenure-track faculty positions at the rank of ASSISTANT PRO-FESSOR or ASSOCIATE PROFESSOR to begin in September 2002: (1) cell biology/systems physiology, (2) plant biology, and (3) prokaryotic molecular biology. The successful applicants (Ph.D. and postdoctoral experience required) will be expected to develop vigorous, extramurally funded research programs and to demonstrate excellence in teaching at both the undergraduate and graduate (M.S./Ph.D.) levels. Applicants should submit the following to the relevant Search Committee at the address below: curriculum vitae, a description of research plans and previous funding history, and a statement of teaching interests. In addition, applicants should arrange to have at least three reference letters sent to the appro-priate Search Committee (Cell/Systems, Plant, or Molecular) at: Department of Biology, Portland State University, P.O. Box 751, Portland, OR 97207. Additional position and departmental information can be found at website: http://www. bio.pdx.edu. These positions are open until filled; review of applications will begin November 1, 2001. PSU is an Affirmative Action/Equal Opportunity Institution.

FACULTY POSITION PHARMACOLOGY

The Department of Physiology and Pharmacology at Des Moines University, Osteopathic Medical Center, seeks applicants for the position of **ASSISTANT** or **ASSOCIATE PROFESSOR** of pharmacology. The successful candidate is expected to develop an extramurally funded research program. Primary teaching responsibilities include teaching medical, podiatric, and allied health students. Submit a letter of application, curriculum vitae, statement of research interests and educational philosophy, and contact information for three letters of reference to:

Terriann Crisp, Ph.D. Professor and Chair Department of Physiology and Pharmacology Des Moines University Osteopathic Medical Center 3200 Grand Avenue Des Moines, IA 50312-4198 DMU is an Equal Opportunity Employer.



UNIVERSITY OF MASSACHUSETTS MEDICAL SCHOOL Department of Biochemistry and Molecular Pharmacology

The Department of Biochemistry and Molecular Pharmacology is pleased to announce the second phase of its faculty recruitment program. Under the leadership of Professor C. Robert Matthews, the department is recruiting new and established investigators to participate in the unparalleled research expansion taking place at the University of Massachusetts Medical School. During the next year, four new tenure-track faculty positions will be filled in areas that complement existing programs and enhance the development of a molecular biophysical perspective towards biological problems. Areas of interest include bioinformatics, structural dynamics, multisubunit protein complex assembly and signal transduction mechanisms. Experimental and computational approaches to macromolecular design are also encouraged. The department occupies two floors in a newly completed 350,000 square foot research building. Salaries and start-up packages will be commensurate with the high level of accomplishment expected for successful applicants. New faculty members will develop cutting-edge research programs, mentor and train graduate students and postdoctoral fellows, and pursue innovative research as leaders in their fields.

Junior applicants should send a cover letter explaining their interest in the department and a *curriculum vitae* that includes honors, publications and a two to three page research plan. Senior applicants should also include a brief description of current and future research activities. Applicants should provide the names and addresses of three individuals who are familiar with their work and potential for success. Materials should be sent to:

Professor Anthony Carruthers, Chair Faculty Search Committee Department of Biochemistry and Molecular Pharmacology The University of Massachusetts Medical School 55 Lake Avenue North Worcester, MA 01655

Web site (http://www.umassmed.edu/bmp/)

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including a competitive salary, solid benefits and challenges that live up to your professional and personal goals. We have the following opportunity available in Abbott Park, Illinois:

Cellular/Molecular Biologist

This professional must possess extensive hands on experience expressing recombinant proteins in insect/baculovirus expression systems and expertise with molecular biology/cell biology techniques, specifically as they pertain to insect cell expression. Requires a BS or MS degree in molecular biology, cell biology or equivalent. Familiarity with mammalian tissue culture, bacterial/yeast expression, protein purification, protein characterization and computers is a plus.

Follow your aspirations to Abbott for diverse opportunities, competitive salaries, great benefits, a 401k retirement savings plan, a company paid pension plan and profit sharing, as well as growth and stability to build your future. For immediate consideration, please visit our website at www.abbott.com. Click on 'Career Center,' then 'Job Opportunities,' and insert '1888 HS' in the 'Keyword' field at the bottom of the page.





Faculty Position in Biochemistry Vanderbilt University School of Medicine

Applications are invited for a position at the rank of Assistant, Associate, or Full Professor. The Department of Biochemistry at the Vanderbilt University School of Medicine is a multi-disciplinary department, including faculty belonging to the following Centers: Vanderbilt-Ingram Cancer Center, Center for Structural Biology, Center in Molecular Toxicology, Center for Cellular and Molecular Neurosciences, Diabetes Center, and Clinical Nutrition Unit. While all areas of modern molecular biochemistry will be considered, preference will be given to individuals studying regulatory mechanisms, including, but not limited to: receptor-mediated signaling, gene expression, proteolysis, and the cell cycle. Applications are also encouraged from individuals using genomic, proteomic, or bioinformatic approaches. Information about the Department, current faculty research interests, Vanderbilt University, and Nashville can be found at: http://medschool.mc.vanderbilt.edu/biochemistry/html/ positions.htm Members of the search committee can be contacted for additional information: Graham Carpenter, Bruce Carter, Larry Marnett, and Jennifer Pietenpol.

Interested applicants must have completed a Ph.D. and/or M.D. degree as well as postdoctoral training. Applications must be received by December 1, 2001. Submit a curriculum vitae, statement of research interests, and three letters of recommendation either electronically to: marlene.jayne@mcmail.vanderbilt.edu or by mail to the following address:

Search Committee Department of Biochemistry 607 Light Hall Vanderbilt University Nashville, TN 37232

EXPERIMENTAL PARASITOLOGIST

The University of Illinois at Urbana-Champaign (UIUC) announces a full-time, tenure-track ASSIST-ANT OR ASSOCIATE PROFESSOR position in experimental parasitology within the Department of Veterinary Pathobiology in the College of Veterinary Medicine available January 1, 2002, or thereafter. The successful applicant must have a Ph.D., M.D./Ph.D., or D.V.M./Ph.D. degree with advanced academic training or postdoctoral experience in experimental parasitology. Such training could encompass but would not be limited to immunoparasitology and molecular parasitology. Duties will include the development of a strong research program, teaching parasitology to veterinary and graduate students, and providing limited diagnostic parasitology service through the Veterinary Diagnostic Laboratory. Salary is negotiable and commensurate with qualifications. Special consideration may be given to applicants with demonstrable interest in veterinary parasitology and whose research interests will strengthen current departmental research priorities in infectious diseases, drug efficacy testing, and parasite control. There are opportunities for collaboration with other departments within the College as well as departments in other colleges at UIUC

Letters of application, curriculum vitae, and the names of three references should be sent to: Dr. A. Paul, Chair, Parasitologist Search Committee, Department of Veterinary Pathobiology, College of Veterinary Medicine, 2001 South Lincoln Avenue, Urbana, IL 61802. Telephone: 217-333-2907. The letter of application should include a oneto-two-page description of research interests and future plans. To ensure full consideration, all materials should be received by November 1, 2001.

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

PROVIDENCE COLLEGE

ASSISTANT PROFESSOR OF BIOLOGY: Tenure-track position in developmental biology at Providence College beginning September 2002. Ph.D. required; postdoctoral experience preferred. Applicants should have a sustainable and fundable research program that can include undergraduates and a strong commitment to undergraduate education. The successful applicant will teach histology/ cytology and developmental biology for majors.

Providence College is a Roman Čatholic, four-year liberal arts college conducted under the auspices of the Dominican Friars. Applicants should submit curriculum vitae; transcripts; a statement of teaching philosophy and research interests; and three letters of recommendation by October 15, 2001, to: Dr. Michael S. Zavada, Chair, Biology Department, Providence College, Providence, RI 02918-0001. For additional information about the Biology Department and Providence College, refer to website: http://www.providence.edu. Providence College is an Affirmative Action/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.

ASSOCIATE/FULL PROFESSOR OF PSY-CHOLOGY, Department of Psychology, University of Hawaii at Manoa. General funds; full-time, tenure track, to begin approximately August 2002. Teach classes in behavioral neuroscience and assist in the development of a cross-disciplinary neurosciences program. Research interests complementing those of current faculty. Expertise in a variety of cellular and molecular techniques relevant to behavioral neuroscience; teaching or administrative experience in development of cross-disciplinary teaching programs in neuroscience. Annual salary range: Associate: \$46,452 to \$68,760; Professor: \$56,520 to \$83,664. For additional information, contact: Karl Minke (e-mail: minke@hawaii.edu) or Robert Blanchard (e-mail: blanchar@hawaii.edu); Telephone: 808-956-8414. Review of applications will begin on November 5, 2001. The University of Hawaii is an Equal Opportunity/Affirmative Action Employer. Women, members of minority groups, veterans, and persons with disabilities are encouraged to apply.

WAYNE STATE UNIVERSITY

The Department of Chemistry at Wayne State University seeks applications for three tenured or tenuretrack positions at the ASSISTANT to FULL PRO-FESSOR levels beginning August 2002 in any area of analytical/physical, inorganic, or organic chemistry. All candidates should have a Ph.D. degree in chemistry; a commitment to undergraduate and graduate education; and have the potential to develop a nationally recognized, externally funded research program. Junior candidates should send a complete résumé and description of future research plans as well as three letters of recommendation addressing both research and teaching potential. Senior candidates should send an application letter and a résumé. Information about the Department can be found at website: http:// www.chem.wayne.edu. All materials should be sent to: Professor Charles H. Winter, Associate Chair, 143 Chemistry, Wayne State University, 5101 Cass Avenue, Detroit, MI 48202-3489. Review of applications will begin October 15, 2001. Wayne State Iniversity is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

THE UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER The Endowment for Scholars in Biomedical Research

UT Southwestern is pleased to announce the continuation of the Endowed Program for Scholars in Biomedical Research. The Program, which is fully funded from private endowment, will provide \$600,000 over four years to support the research activities of each new **ASSISTANT PROFESSOR** (tenure track) appointed to the Program; five will be appointed annually. In addition, regular funding for salary as well as research space will be provided by the medical school department or research center offering the appointment. Positions in both basic science and clinical departments are available. The goal of the program is to assure a successful beginning of the arecence of an ever-growing cadre of outstanding young Investigators at UT Southwestern.

For detailed information about currently available faculty positions, please access our website: http://www.utsouthwestern.edu/home_pages/ scholars/. Southwestern, The University of Texas Southwestern Medical Center at Dallas.

UT Southwestern is an Equal Opportunity Institution.

ASSISTANT PROFESSOR MOLECULAR EVOLUTIONARY BIOLOGIST Queens College of the City University of New York

The Department of Biology at Queens College of the City University of New York seeks a tenure-track Assistant or Associate Professor to begin fall 2002. Responsibilities will include the establishment of an active research program and teaching at the undergraduate and M.A./Ph.D. levels. We seek a candidate with a Doctoral degree, postdoctoral experience, and a record of research accomplishment in the area of molecular and genomic approaches to evolutionary biology. Salary range for Assistant Professor is \$32,062 to \$55,930 commensurate with experience. Send a letter detailing research interests/future plans, curriculum vitae, and arrange for submission of three letters of recommendation. Complete applications including recommendation letters must be received by November 1, 2001. Candidates should submit materials to: Dr. Zahra Zakeri, Chair, Search Committee, Department of Biology, Queens College of CÚNY, 65-30 Kissena Boulevard, Flushing, NY 11367-1597. An Equal Opportunity/Affirmative Action/ Immigration Reform and Control Act/Americans With Disabilities Act Employer.

POSITIONS OPEN

THE AMERICAN UNIVERSITY IN CAIRO

Founded in 1919, AUC's campus is located in Cairo, Egypt, and its degree programs are accredited by the Commission on Higher Education of the Middle States Association of Colleges and Schools, AUC's undergraduate programs in engineering are ABET accredited, and its undergraduate program in computer science is CSAB accredited. For more information, see our **website:** http://www.aucegypt.edu. One-, two-, or three-year appointments subject to mutual agreement will begin September 2002. Renewal of an appointment depends upon institutional needs and/or the appointee's performance. The normal teaching load is three courses per semester and English is the language of instruction. Salary and rank are according to scale based on qualifications and professional experience. Housing, annual round-trip air travel for appointee and accompanying family, plus schooling for up to two children are included for expatriates. In view of AUC's protocol agreement with the Egyptian Government (which requires specific proportions of Egyptian, United States, and third-country citizen faculty) at this time preference will be given to qualified applicants who are U.S. citizens. Biology: Teach and conduct research in marine bio-

Biology: Teach and conduct research in marine bioogy. Special attention will be given to candidates with expertise in the Red Sea. Should have the ability to teach general biology and two of the following areas: invertebrate zoology, animal behavior, systematics, and quantitative biology. Ability to teach scientific thinking is an asset. Position Number BIO1–1.

Electronics engineering: Newly established Department of Electronics Engineering has an opening for a faculty member to teach undergraduate courses in the areas of VLS1 circuit design with an emphasis on RF integrated circuits or telecommunications with an emphasis on wireless communication systems. Recent Ph.D. with teaching experience and international exposure preferred. Participation in research is expected. Position Number EE-1.

Mathematics: Teach all levels of undergraduate mathematics students as well as participate in research. Position Number MATH-1.

Mechanical engineering: Several openings to teach undergraduate- and graduate-level courses and conduct research in the following areas: (1) industrial engineering and (2) design of mechanical systems and components. Position Number ME-1/3.

Computer science: One possible opening to teach undergraduate and graduate courses and conduct research in the area of performance evaluation or computer architecture. Position Number CS-1.

Physics: One or more openings to teach and conduct research in a strong physics program in a liberal arts and science context. Successful candidates should be able to teach at all levels of undergraduate and graduate physics and should be able to conduct graduate research involving students at the M.Sc. level. Particular attention will be given to candidates with a proven ability to participate actively in upgrading laboratories in the area of sensors and instrumentation. Position Number PHYS–1/2.

E-mail a letter of application specifying position number with curriculum vitae and names and addresses of three references to e-mail: facultyaffairs@ aucnyo.edu or mail to: Dr. Earl (Tim) Sullivan, Provost, The American University in Cairo, 420 Fifth Avenue, Floor 3–SCI, New York, NY 10018-2729. Applications accepted until position is filled. The American University in Cairo is an Equal Opportunity Employer.

RESEARCH ASSOCIATE/POSTDOCTORAL Case Western Reserve University Cleveland, Ohio U.S.A.

NIH-funded positions available to study gene regulation by nutrient availability (amino acids, glucose, endoplasmic reticulum stress). Novel mechanisms of transcriptional and translational induction of amino acid transporter genes are investigated under conditions that global protein synthesis is inhibited (*J. Biol. Chem.* **276:12285**, 2001). Experience in molecular and RNA biology is preferred. Contact: Hatzoglou; e-mail: mxh8@po.cwru.edu; FAX: 216-368-6644.

Cornell University Department of Chemistry and Chemical Biology

Frank and Robert Laughlin Professorship of Physical Chemistry

The Department of Chemistry and Chemical Biology of Cornell University invites applications for the Frank and Robert Laughlin Professorship of Physical Chemistry. Candidates should have a strong interest and background in experimental phase science including its applications in related fields. The position would be a tenured full professorship, although applications for a tenuretrack assistant professorship with a specialty in that field will also be considered.

The successful applicant will be expected to carry out an effective research program in phase science and to teach at both the undergraduate and graduate levels. All applicants should submit a curriculum vitae and publication list together with a narrative summary of past research and plans for future research. Those applying for the Frank and Robert Laughlin Professorship should list the names and affiliations of several scientists who may be asked to write letters of reference. Those applying at the assistant-professor level should have three letters of recommendation and a graduate transcript sent. All application materials should be addressed to the Faculty Search Committee, Department of Chemistry and Chemical Biology, Baker Laboratory, Cornell University, Ithaca, New York 14853-1301, USA, and should specify that the application is for the position in phase science. To be assured full consideration, applications must be received by December 31, 2001.

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

Genetic Basis of Behavior Tenure Track Investigator National Institutes of Health Bethesda, MD

The National Institute of Mental Health Intramural Research Program invites applications for a tenure track investigator position emphasizing the genetic basis of behavior. The successful candidates should have a strong research interest in the study of animal models of neuropsychiatric disorders. Experience in making and evaluating transgenic and knockout animals is desirable. Applicants must have an M.D. and/or Ph.D. with significant scientific achievement as an independent investigator. This 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 three letters of recommendation sent by November 7, 2001 to: Dr. Dennis S. Charney, Chair, Search Committee for Genes and Behavior Investigators. NIH, Building 10, Room 3N-210, 9000 Rockville Pike, Bethesda, MD 20892-1381.



The National Institutes of Health is an equal opportunity employer

POSITIONS OPEN

FACULTY POSITION Scholar in X-ray Crystallography

The Department of Molecular Genetics, Biochemistry, and Microbiology at the University of Cincinnati College of Medicine, has recently been awarded an Ohio Eminent Scholar in the area of X-ray crystallography. The appointment will be at either the ASSOCIATE or FULL PROFESSOR level in the tenure track, and we are searching for an individual investigating significant biological questions. We have already developed a very strong NMR component of our structural biology program, which includes several state-of-the-art spectrometers (400, 500, 600 (x2), and 800 MHz). The X-ray facility will be housed in new space. The Department consists of 26 faculty members encompassing such areas as gene regulation and development, signal transduction, ion transport, immunology, pathogenic mechanisms, cancer biology, and structural biology. The Department provides an exceptional environment for an X-ray Crystallographer to actively interact with colleagues while developing and building his/her own program. The Department and college maintain a number of core facilities unparalleled in most institutions. These include a BL3 containment facility for work with pathogens, transgenic and knockout mouse cores, DNA synthesis and sequencing facilities, gene microaray analysis, proteomics, and bioinformatics. The Department maintains an active graduate program with 45 Ph.D. students.

Our program can be visited through our website: http://www.molgen.uc.edu. Applicants should submit curriculum vitae, brief description of research program, and the names of three qualified references to: Jerry B. Lingrel, Ph.D., Professor and Chair, Department of Molecular Genetics, Biochemistry, and Microbiology, University of Cincinnati College of Medicine, 231 Albert Sabin Way, Cincinnati, OH 45267-0524.

POSITIONS OPEN

FACULTY POSITION Cell and Developmental Biology Carnegie Mellon University

The Department of Biological Sciences at Carnegie Mellon University seeks to fill up to two **TENURE-TRACK POSITIONS** in cell or developmental biology. Carnegie Mellon has a long history of interdisciplinary research with strengths in light microscopy, magnetic imaging, and computation. Research programs of current faculty include the areas of cell/ developmental biology, genetics/molecular biology, and biochemistry/biophysics with recent expansion in computational biology and neuroscience (see departmental website: http://www.cmu.edu/bio/). Successful candidates will be expected to develop strong, innovative research programs and to participate in the undergraduate and graduate educational programs. Candidates must have a Doctoral degree and strong research credentials.

Please send curriculum vitae, a statement of research interests, and three letters of recommendation to: Dr. Jonathan Minden, Department of Biological Sciences, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213. The deadline for applications is November 15, 2001. Camegie Mellon University is an Equal Opportunity/Affirmative Action Employer. Women, minorites, veterans, and disabled persons are encouraged to apply.

Two POSTDOCTORAL POSITIONS are immediately available to study the subnuclear compartmentalization of transcription coregulatory factors. Fluorescence techniques are used to relate intranuclear structure with gene expression and proliferation. *In vivo* biochemistry is measured in parallel using FRET. Please send curriculum vitae and reference information to: Fred Schaufele, Diabetes Center, HSW-1119, University of California, San Francisco, CA 94143-0540. E-mail: freds@diabetes. ucsf.edu; website: http://diabetes.ucsf.edu/ bios/schaufele.html.

POSITIONS OPEN

ASSOCIATE RESEARCH SCIENTIST POSITION Statistics

Columbia University in the City of New York

Associate Research Scientist position available for Ph.D. with graduate degree in nutrition. Must have extensive background in cardiovascular disease and mathematics. Candidate must also have a background in mathematical modeling and analysis of kinetic results of metabolic studies of lipoproteins. Job requirements: statistics, SAS programming, STATA programming, survival analysis, power calculations, linear regression, categorical analysis, and management of large data sets. Send curriculum vitae to: Lori Mosca, M.D., Ph.D., Department of Medicine, Division of Preventive Medicine and Nutrition, Columbia University, 630 West 168th Street, PH10-203B, New York, NY 10032. FAX: 212-305-5384/.

Columbia University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS to study initiation of DNA replication or gene expression during mammalian development. Applicants should send their curriculum vitae and the names, telephone numbers, and e-mail addresses of three references to: Melvin DePamphilis, Building 6/Room 416, National Institutes of Health, 9000 Rockville Pike, Bethesda, MD 20892-2753 U.S.A. FAX: 301-480-9354; e-mail: depamphm@mail.nih.gov. For more information, either contact me or visit my website: http://depamphilislab.nichd.nih.gov.

Two MICROBIAL GENETICIST positions (not tenured) are immediately available at the University of Florida. Each is for a Ph.D. with postdoctoral experience in bacterial genetic engineering and fermentation technology. Please send curriculum vitae and three letters of reference to: L. O. Ingram, Department of Microbiology and Cell Science, Box 110700, University of Florida, Gainesville, FL 32611. E-mail: ingram@ufl.edu.

FACULTY POSITION BACTERIOLOGY, MYCOLOGY, OR PARASITOLOGY

The Department of Microbiology at the University of Colorado Health Sciences Center in Denver invites applications for a tenure-track appointment as an AS-SISTANT, ASSOCIATE, or FULL PROFES-SOR. Candidates who work on molecular analysis of pathogenic mechanisms and/or host-parasite interactions are particularly encouraged to apply. The faculty teaches medical students and participates in graduate programs in microbiology, molecular biology, and biomedical sciences for Ph.D. and M.D./Ph.D. students. Assistant Professor candidates are expected to develop independent, externally funded research programs. Candidates for Associate Professor or Professor must have established research programs and external funding. The academic environment, newly renovated research facilities, and start-up support are excellent. Rank and salary are commensurate with training and experience. Requirements include a Ph.D., M.D., or equivalent degree; experience in microbiology or a closely related field; at least two years of postdoctoral experience; and a strong record of peer-reviewed publications. All candidates should submit curriculum vitae; research plan; and names, mailing addresses, telephone numbers, and e-mail addresses of three professional references. Associate Professor and Professor candidates must also list their active research grants and pending grant applications. Send correspondence to: Faculty Search Committee Chair, Department of Microbiology, Campus Box B175, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, Denver, CO 80262. Review of applications will begin immediately and continue until an appointment is made or the search is terminated. The UCHSC is committed to Equal Opportunity and Affirmative Action.

FACULTY POSITIONS IN CELL BIOLOGY University of Massachusetts Amherst

Applications are invited for two tenure-track faculty positions in the Department of Biology (website: http://www.bio.umass.edu/biology). One position will be an ASSISTANT PROFESSORSHIP and is open as to the cell system studied; the second will be in plant cell biology and the appointment may be made at a more senior level. For both positions, we are particularly interested in creative Researchers who focus on advanced imaging using light and/or electron microscopy and who will interact with the present cell biology community. Candidates are expected to develop a vigorous, funded research pro-gram and be committed to undergraduate and graduate education. We have excellent research facilities for cell biology and encourage and support innovative teaching. Ph.D. and postdoctoral experience re-quired. To apply, send curriculum vitae, statement of research interests and teaching philosophy, and arrange for three letters of recommendation to be sent to: Chair, Cell Biology Search Committee, Search Number R14096/R14098, Biology Department, Morrill Science Center, University of Massachu-setts, Amherst, MA 01003-5810. E-mail: cellsearch@bio.umass.edu. Review of applications will begin October 1, 2001, and continue until position is filled.

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

MOLECULAR BIOLOGIST

The successful applicant will have a Ph.D. in molecular biology, cell biology, or a related field with broad experience in genomics, cloning, and database mining. Experience in pharmaccutical and/or biotechnical company is highly desirable. The ideal candidate will possess strong written and oral communication skills and have worked in the area of G protein receptors and kinases.

Please forward curriculum vitae with references to: Human Resources, Originus Inc., 180 Jackson Plaza, Ann Arbor, MI 48103. E-mail: amansour@originusinc.com.

POSITIONS OPEN

THE UNIVERSITY OF ARIZONA TUCSON ARIZONA FACULTY POSITION PHARMACOLOGY/TOXICOLOGY

The Department of Pharmacology and Toxicology, College of Pharmacy, University of Arizona, invites applications for a tenure-track position at the ASSIST-**ÅNT** or **ASSOCIATE PROFESSOR** level for the academic year beginning fall 2002. Applicants must have a Ph.D., Pharm.D., or M.D. and postdoctoral experience with preference given to the areas of molecular pharmacology, signal transduction, and functional genomics or proteomics. The successful applicant will be expected to participate in the teaching mission of the College and to develop and maintain an extramurally funded research program. A competitive start-up package will be provided; however, applicants for the Associate Professor level must have a good record of extramural support. We have a strongly cooperative research environment with a can-do attitude and many opportunities for collaborations, participation in graduate programs, centers of excellence, and core facilities. Tucson has a great climate and is very livable with affordable housing and good schools. Review of applications will begin December 3, 2001, and will continue until the position is filled. An application letter, curriculum vitae, statement of research interests, and names and addresses of three to five references should be sent to:

AHSC Human Resources Job Number 993536 1501 North Campbell Avenue, Number 2233 P. O. Box 245010 Tucson, AZ 85724-5010

The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer; Minority/Female/ Disability/Veteran. We offer excellent benefits and competitive salaries.

FACULTY POSITION BACTERIAL PATHOGENESIS Emory University School of Medicine Department of Microbiology and Immunology Atlanta, Georgia

The Department of Microbiology and Immunology at Emory University School of Medicine invites applications for a **TENURE-TRACK FACULTY POSITION** in bacterial pathogenesis. Successful applicants for this position will be expected to implement a strong, extramurally funded research program. Applicants should have an Ph.D. or M.D., postdoctoral experience, excellent communication skills, and a record of research productivity. Applicants should submit a letter stating interest in being considered for this position, curriculum vitae, a research plan, and the names and addresses of three references to: **Bacterial Pathogenesis Search Committee, Emory University, Microbiology and Immunology, 1510** Clifton Road, Atlanta, GA 30322. Review of applications will begin October 1, 2001, and will continue until the position is filled.

Emory University is an Equal Opportunity/Affirmative Action Employer.

Ph.D. SCIENTIST Microbiology/Immunology

Remedyne Corporation (website: http:// www.remedyne.com) is currently seeking a Ph.D. Scientist to contribute to several exciting projects utilizing our proprietary D.A.M. antimicrobial technology to generate vaccines and antimicrobial agents. The qualified person should have a strong background in bacterial genetics and/or pathogenesis or in immunology. Postdoctoral (approximately two to five years) or biotechnology (approximately three years) experience is required. In addition to competitive salary and benefits, we offer equity participation via an ISO and stock purchase program. E-mail, FAX, or mail your cover letter and résumé to: Dr. Roymarie Ballester, Remedyne Corporation, 2219 Bath Street, Santa Barbara, CA 93105. E-mail: rballester@remedyne.com; FAX: 805-687-3393. Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITIONS Neuroscience and Physiology SUNY Upstate Medical University

Three tenure-track faculty positions for ASSIS-TANT or ASSOCIATE PROFESSOR are available in the Department of Neuroscience and Physiology, State University of New York Upstate Medical University. The Department is rebuilding; its new focus will be developmental neurobiology. Researchers with interests in cell fate, neurogenetics, neurooncology, and plasticity are particularly encouraged to apply. Successful candidates must have proven record of research productivity. They are expected to establish independent, extramurally supported research programs and to participate in medical/graduate education.

The local neuroscience community is interactive and multidisciplinary, having strengths in sensory systems and the molecular bases of disease. Positions offer possibilities of interdisciplinary interactions with faculty in basic and clinical science departments, Syracuse University, the Syracuse Veterans Affairs Medical Center, and a nascent Neurosciences Institute.

Candidates should send curriculum vitae, statements of research and teaching experience, and the names of three references to: Michael W. Miller, Chair, Department of Neuroscience and Physiology, SUNY Upstate Medical University, 750 East Adams Street, Syracuse, NY 13210. Review of applications will begin October 1, 2001, although later applications will be considered until the position is filled. SUNY is an Equal Employment Opportunity and Affirmative Action Employer. Applications, from women and minority candidates are especially welcome.

FACULTY POSITION MICROBIOLOGY

The Department of Biological Sciences at Western Michigan University seeks applications for a tenure-track ASSISTANT PROFESSOR position in microbiology beginning fall 2002. A Ph.D. and at least two years of postdoctoral training are required with an emphasis on molecular genetics in prokaryotes. All applicants with excellent credentials and who are able to complement existing strengths in the Department will be considered. Development of an externally funded research program and taking an active role in the Department's undergraduate, Master's, and Doctoral programs is expected. Western Michigan University has new, state-of-the-art research facilities and a strong commitment to research excellence in the life sciences. Detailed information about the Department of Biological Sciences faculty and programs is available at website: http://www.wmich.edu/bios. Teaching responsibilities will include an undergraduate microbiology course for majors and a graduatelevel prokaryotic cell biology course. Applicants should submit a letter of application, curriculum vitae, statement of research and teaching interests, and three letters of reference to: Dr. Silvia Rossbach, Chair, Microbiology Search Committee, Department of Biological Sciences, 1903 West Michigan Avenue, Western Michigan University, Kalamazoo, MI 49008-5410. Review of formal applications will begin October 15, 2001, and will continue until the position is filled. Western Michigan University is a student-centered research university and encourages applications from individuals from underrepresented groups.

POSITION AVAILABLE

RESEARCH ASSOCIATE in cardiovascular/ pulmonary pharmacology available for recent Ph.D. in pharmacology or physiology. Project related to pharmacology of purine receptors and the involvement of second messenger systems in smooth muscle and endothelial/epithelial cells. Salary commensurate with experience. Send curriculum vitae and three letters of recommendation to: Dr. S. Jamal Mustafa, Department of Pharmacology, East Carolina University, Greenville, NC 27858. Telephone: 252-816-2736. Affinative Action/Equal Employment Opportunity. Accommodates individuals with disabilities. Applicants must comply with the Immigration Reform and Control Act.

ASSISTANT PROFESSOR Department of Pharmacology

The Department of Pharmacology and Therapeutics at the Louisiana State University Health Sciences Center in Shreveport invites applications for one or more tenure-track Assistant Professor positions. Qualified candidates should have expertise in an area of pharmacology or toxicology with emphasis on cellular or molecular biological approaches. Candidates must have a Ph.D. or equivalent degree in pharmacology or a related discipline with demonstrated research abilities. He/she will be involved in graduate and medical student teaching and will be expected to develop a funded, independent research program. Excellent research facilities exist within the LSU Medical School and the Biomedical Research Institute. The Department has an NIH-funded program for graduate and postgraduate training. Candidates should submit a letter of application, curriculum vitae, and a detailed description of research plans and accomplishments along with names of three references to: Adrian J. Dunn, Ph.D., Department of Pharmacology and Therapeutics, LSU Health Sciences Center, P.O. Box 33932, Shreveport, LA 71130. Telephone: 318-675-7852. Review of applications will begin on October 1, 2001. LSUHSC is an Affirmative Action Employer.

TENURE-TRACK ASSISTANT PROFESSOR OF CONSERVATION GENETICS Department of Ecology Montana State University

Required: Ph.D. in vertebrate conservation genetics or closely related field. Preferred: Postdoctoral and teaching experience, strong publication and grant record, and innovative research applying molecular methods to fundamental and applied problems in ecology and conservation. Responsibilities: teaching one high-enrollment undergraduate biology course and one graduate conservation genetics course per year, developing an externally funded research program in genetics at population level or above, and applying molecular methods to conservation of vertebrates. Salary commensurate with experience. Review begins October 20, 2001, and continues until filled. Submit curriculum vitae; statements of research and teaching interests; and names of three references (with e-mail, telephone, and addresses) to: Conservation Genetics Search Committee, Department of Ecology, Montana State University, Bozeman, MT 59717. Telephone: 406-994-4548; website: http://www.montana.edu/ecology. Americans With Disabilities Act/Affirmative Action/Equal Opportunity/ Veterans Preference Employer.

A POSTDOCTORAL POSITION is available at the University of Kansas to work with John Kelly and Maria Orive on the within-host population dynamics and evolution of viruses. The candidate will participate in an NIH-funded project linking theoretical population biology with virological studies conducted at the University of Kansas Medical Center. The empirical research team is led by Dr. Marilyn Smith within the laboratory of Dr. Opendra Narayan. Specific duties include (1) development of population genetic models of gene sequence evolution, (2) computer programming and numerical analysis, and (3) development and application of appropriate statistical methods to data generated by our collaborators. The Postdoctoral individual will also serve as a liaison between the two research groups. Funding is guaranteed for two years (with possible extension) starting in January 2002 (although a later start may be possible). The salary is according to the NIH scale and starts at \$28,260 per year. Review of applications will begin October 1, 2001, and continue until the position is filled. Please send current curriculum vitae, statement of research interests, and the telephone numbers and e-mail addresses of three references to: John Kelly, Department of Ecology and Evolutionary Biology, University of Kansas, Lawrence, KS 66045. These can be sent as e-mail attachments if convenient (e-mail: jkk@eagle.cc.ukans.edu). Equal Opportunity/ Affirmative Action

POSITIONS OPEN

PSYCHIATRIC NEUROSCIENCE FACULTY POSITION University of North Carolina at Chapel Hill School of Medicine Department of Psychiatry

The University of North Carolina Department of Psychiatry is recruiting for a basic Scientist with research expertise in the behavioral or molecular neurobiology and/or pharmacology of mental illness. The candidate will work in the context of a multidisciplinary translational research program including basic and clinical neuroscience and experimental therapeutics focusing on psychotic, mood, and neurodevelopmental disorders. He/she must have a demonstrated track record of scientific accomplishment and the ability to secure independent extramural funding. Minimum requirements include an M.D., Ph.D., or M.D./Ph.D. degree from an accredited university. Faculty rank will be determined by the successful candidate's credentials and experience; it is anticipated that the appointment will be at the level of ASSIST-ANT or ASSOCIATE PROFESSOR. Applicants should submit a letter summarizing their research interests and background, curriculum vitae, and three letters of reference to: Robert N. Golden, M.D., Professor and Chair, or Jeffrey A. Lieberman, M.D., Vice Chairman and Director of Research, UNC Department of Psychiatry, Campus Box Number 7160, Chapel Hill, NC 27599-7160. INC is an Equal Opportunity/Americans With Disabilities Act Employer. Women and minorities are encouraged to apply.

FACULTY POSITION COMPUTATIONAL CELL BIOLOGY University of Connecticut Health Center

The successful candidate will be expected to develop a research program in computational cell biology. This will entail analyses of the mathematical and physical bases for cell biological processes such as cell motility, intracellular trafficking, cell differentiation, mitosis, signal transduction, etc. The development of strong collaborations with experimentalists is expected and will be facilitated through association with the Virtual Cell project at the National Resource for Cell Analysis and Modeling (website: http://www. nrcam.uchc.edu). Participation in graduate and medical education will be expected including the mentoring of graduate students and the development of new curricula in computational cell biology. The successful applicant will also hold a joint appointment in the Department of Mathematics at the University of Connecticut. Applications at the ASSISTANT, ASSOCI-ATE, and FULL PROFESSOR levels will be considered. Applicants should send curriculum vitae, research plan, and at least three letters of reference to: Dr. Les Loew, Professor of Physiology, University of Connecticut Health Center, Farmington, CT 06030-1507. The closing date for applications is November 4, 2001. UCHC is an Equal Opportunity Employer; Minorities/Females/Veterans/Persons With Disabilities

ASSISTANT PROFESSOR BIOCHEMISTRY University of Washington

The Department of Biochemistry at the University of Washington School of Medicine invites applications for a tenure-track position at the Assistant Professor level. We seek creative Scientists who have strong research credentials and plan to focus on molecular or structural aspects of important biological problems. Applicants should have a Ph.D. or the equivalent in biochemistry, structural or molecular biology, chemistry (or a related field), or an M.D. The successful candidate will be expected to participate in interdisciplinary graduate training programs and un-dergraduate teaching. Applicants should submit curriculum vitae; a description of future research directions; selected reprints and preprints; and three letters of recommendation (to be forwarded separately) by November 15, 2001, to: Alan Weiner, Chair, Department of Biochemistry, University of Washing-ton, Seattle, WA 98195-7350. Telephone: 206-543-1768; FAX: 206-685-9231. The University of Washington is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

PLANT POPULATION BIOLOGIST/ ECOLOGIST, EVOLUTIONARY BIOLOGIST, ANIMAL PHYSIOLOGIST

The Department of Biology at The University of Memphis invites applications for positions at the AS-SISTANT PROFESSOR level. For a Plant Population Biologist/Ecologist, those with expertise in reproductive biology, population genetics, or plantinsect interactions are especially encouraged to apply although all qualified applicants will be considered. For an Evolutionary Biologist, we seek an Organismal Biologist who uses molecular techniques to address questions in population, behavioral, or evolutionary biology/ecology. For an Animal Physiologist, re-scarch emphasis should focus on neuroendocrinology and/or reproductive physiology. Research interests should complement those of current faculty. Teaching will be commensurate with research expertise. The successful candidates will be expected to develop externally funded research programs and supervise M.S. and Ph.D. students. Candidates must have a Ph.D., postdoctoral training, a record of peer-reviewed publication and scholarly accomplishments commensurate with experience, and evidence of funding potential. Positions begin 21 August 2002. Applicants should submit a letter of application; curriculum vitae; a concise description of research and teaching interests; and names, telephone numbers, and e-mail addresses of at least four references (do not send reference letters) to: Search Committee, Department of Biology, The University of Memphis, Memphis, TN 38152. Contacts for more information: Telephone: 901-678-2758; FAX: 901-678-4746; e-mail: jwolff@memphis.edu; or see our website: http://www.people.memphis.edu/biology___Review of applications will begin November 9, 2001, and may continue until the positions are filled.

The University of Memphis is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

FACULTY POSITIONS Department of Molecular and Cellular Biochemistry The Ohio State University

The Department of Molecular and Cellular Biochemistry of The Ohio State University invites applications for tenure-track positions at the level of AS-SISTANT or ASSOCIATE PROFESSOR as part of continued expansion in molecular biology and molecular genetics. The applicants should have a minimum of three years of postdoctoral experience backed by publications in established journals and ability to generate research support. Preference will be given to candidates with expertise in the molecular and biochemical aspects of disease processes. A competitive start-up package including modern laboratory space will be available. Proximity to Comprehensive Cancer Center, Heart and Lung Research Institute, and proposed Biomedical Research Institute as well as modern research core facilities are added attractions. Applicants should submit curriculum vitae; selected reprints; a description of research interests and goals; grant support (if applicable); and the names, addresss, and telephone/FAX numbers of five references to: Chair, Faculty Search Committee, The Ohio State University, College of Medicine, Department of Molecular and Cellular Biochemistry, 333 Hamilton Hall, 1645 Neil Avenue, Columbus, OH 43210-1218. The Search Committee will begin reviewing applications on November 1, 2001. The Ohio State University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW

Fred Hutchinson Cancer Research Center seeks Ph.D. or M.D. to study T cell reconstitution after hematopoietic cell transplantation. Expertise in DNA/RNA techniques, cell culture, and flow cytometry essential. Experience with T cells desirable. Email curriculum vitae and the names, telephone numbers, and e-mail addresses of three references to: Jan Storek, M.D., Ph.D.; e-mail: jstorek@fhcrc.org.

TENURE-TRACK NEUROSCIENCE FACULTY POSITIONS

University of Cincinnati College of Medicine Two new appointments for tenure-track faculty are available in the Department of Neurology; junior and senior Investigators will be considered. We are particularly interested in candidates studying movement disorders or CNS demyelinating disease, but outstanding candidates studying any aspect of clinically relevant neuroscience are encouraged to apply. Generous start-up packages, competitive salaries, and space in the new state-of-the-art Vontz building are available. Applicants will join a vibrant and collegial universitywide neuroscience program with opportu-nity for interdepartmental collaborations (website: http://neuroscience.uc.edu/). The successful jun-ior applicant will have postdoctoral and/or Fellowship experience, a robust publication record, and the potential to develop significant extramural support. More senior Investigators will be leaders in their fields. Applicants Board certified in neurology are preferred but Ph.D. Scientists will also be considered. Applicants should send curriculum vitae; statement of research accomplishments and plans; and three letters of reference by September 15, 2001, to: Dr. Joseph Broderick, M.D., Professor and Chairman, De-partment of Neurology, University of Cincinnati College of Medicine, P.O. Box 670525, Cincin-nati, OH 45267-0525.

The University of Cincinnati Medical School is an Affirmative Action/Equal Opportunity Institution. Women and minorities are encouraged to apply.

ANIMAL PHYSIOLOGISTS

The Department of Biological Sciences at the University of Notre Dame invites applications for two **TENURE-TRACK POSITIONS** in animal physiology at the junior or senior level to begin fall 2002. We welcome Scientists working in all areas of animal physiology and are particularly interested in individuals studying neurobiology, reproduction, or behavior. The successful candidates will be expected to maintain active research programs that will attract outside funding. Teaching responsibilities will be one course per semester and include an undergraduate course in the individual's area of expertise.

The University of Notre Dame offers highly competitive salaries; start-up funds; and state-of-the-art animal and research facilities (optical imaging, flow cytometry and cell sorting, automated histology and laser capture microdissection, and gene array facilities). Applicants should submit curriculum vitae, description of research and teaching interests, and letters from three references to: Physiology Search Committee, Department of Biological Sciences, University of Notre Dame, P. O. Box 369, Notre Dame, IN 46556-0369. Initial review of applications will commence November 1, 2001, and continue until both positions are filled. Additional information can be obtained by contacting either Dr. S. K. Boyd or Dr. A. L. Johnson, Co-Chairs of the Search, or at website: http://www.science.nd.edu/biology. The University of Notre Dame is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.

RESEARCH ASSISTANT/POSTDOCTORAL FELLOW Baylor College of Dentistry

Baylor College of Dentistry, a member of The Texas A&M University System Health Science Center, has a position available in the Department of Periodontics. Candidates must have a graduate degree (Master's or Ph.D.) and experience in molecular biology, protein chemistry, and immunology. Applicants can send curriculum vitae and three letters of recommendation with names, addresses, and telephone numbers to:

> 3302 Gaston Avenue Periodontics Department, Room 164 Dallas, TX 75246 E-mail: clibby@tambcd.edu

POSITIONS OPEN



RESEARCH ENTOMOLOGIST

The U.S. Department of Agriculture (USDA) Agricultural Research Service (ARS), Bee Biology and Systematics Laboratory, Logan, Utah, is accepting applications for a permanent, full-time **RESEARCH ENTOMOLOGIST** to provide expertise that will contribute directly to the USDA Small Farms Initiative. The incumbent will be a team member primarily responsible for a broad area of research on the population dynamics and management of the alfalfa leafcutting bee (Megachile rotundata), a commercial-scale pollinator of alfalfa, canola, and other crops. Applicants must have a directly related Ph.D. or equivalent degree plus professional research experience. Salary commensurate with experience (\$51,929 to \$94,682). United States citizenship is required. Comprehensive benefits package includes paid annual and sick leave, life and health insurance, and a savings and investment plan in addition to a federal retirement plan. Vacancy announcement containing information on basic and specialized experience and competencies can be obtained at website: http://www.ars. usda.gov. For information on the research program and/or position, contact: Dr. W. P. Kemp; Tele-phone: 435-797-2525 or e-mail: wkemp@biology. usu.edu. For information on application procedures contact: John Watterson; Telephone: 435-797-**3071**. Applications in response to this advertisement should be marked ARS–X1W–1310 and postmarked by September 14, 2001. USDA is an Equal Opportunity Provider and Employer.

ASSISTANT PROFESSOR Molecular or Cellular Biology

Muhlenberg College Biology Department invites applications for a tenure-track Assistant Professor position beginning fall 2002 in molecular or cellular biology. Candidates should be committed to excellence in undergraduate education both in the classroom and in their research program. Teaching responsibilities will be biochemistry, participation in introductory biology sequence for majors, and advanced course in area of expertise. Founded in 1848, Muhlenberg College is a highly selective, private liberal arts college of more than 2,000 students. Located in the scenic Lehigh Valley, Pennsylvania, the college is within easy reach of New York City and Philadelphia, Pennsylvania, as well as coastal and mountain recreation areas. To apply, send curriculum vitae, letter of interest, statements of teaching and research interests, and three current reference letters to: Dr. Elizabeth McCain, Chair of Search Committee, Biology Department Muhlenberg College, Allentown, PA 18104. Vis Department, it our website: http://www.muhlenberg.edu. Application review begins November 1, 2001, and will continue until the position is filled. Muhlenberg College is an Equal Opportunity Employer.

MOLECULAR NEUROBIOLOGY University of Southern California

The Neurobiology Section of the Department of Biological Sciences at USC invites applications for a tenure-track position at the ASSISTANT PROFES-SOR level in the area of molecular neurobiology. We are interested in candidates who use molecular approaches to study neuronal development, synaptic function, sensory systems, or signal transduction. Successful applicants will also receive an appointment in our multidisciplinary Neuroscience Program, which has broad strengths in the neural, informational, and behavioral sciences. Review of applications will com-mence December 1, 2001. Send curriculum vitae and statement of research plans and have three letters of recommendation sent to: Search Committee, Molecular Neurobiology, University of Southern California, Los Angeles, CA 90089-2520. Additional information is available at website: http:// www.usc.edu/dept/LAS/biosci/. USC is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

DEVELOPMENTAL BIOLOGIST

The Biology Department of Albion College is reopening its search for a full time, tenure-track Developmental Biologist at the rank of ASSISTANT PROFESSOR to begin in August 2002. A Ph.D. is required. College teaching experience is preferred. The successful candidate will be expected to teach a majors course in developmental biology and to develop a course in his or her area of expertise. The candidate also will share responsibilities in an introductory cell and molecular biology course and have the opportunity to interact with the College's neuroscience program. A research agenda that incorporates undergraduate students is expected. Facilities include standard molecular biology equipment, TEM and SEM, controlled environment chambers, and a 58-hectare nature center adjacent to campus. Albion College is a selective, liberal arts college of approximately 1,500 students located in south central Michigan within an hour's drive of three major universities. See website: http://www.albion.edu/biology/ for further information. Send letter of application including teaching philosophy and research interests, curriculum vitae, graduate and undergraduate transcripts, recent reprints, and three letters of reference to: Dr. J. Dan Skean, Jr., Biology Department, Albion College, Albion, MI 49224. The deadline for applications is October 15, 2001. Albion College is an Equal Opportunity Employer committed to diversity as a core institutional value.

RESEARCH MICROBIOLOGIST OR VETERINARY MEDICAL OFFICER (Interdisciplinary)

U.S. Department of Agriculture, Agricultural Research Service, Southeast Poultry Research Laboratory, Athens, Georgia, has a permanent, full-time opening for an interdisciplinary Microbiologist or Veterinary Medical Officer, GS-12/13. The Scientist will be part of a multidisciplinary team of Scientists conducting basic and applied research on avian influenza pathobiology, epidemiology, and genomics. Candidates must obtain vacancy announcement for qualification requirements. Salary commensurate with experience (\$51,927 to \$80,279). For application information, Telephone: 706-546-3029; indicate Announcement Number ARS-X1S-1332. Full text vacancy announcement may be obtained via website: http://www.afm.ars.usda.gov/divisions/hrd/ index.html. Applications must be postmarked by September 30, 2001. USDA is an Equal Opportunity Provider and Employer.

PHARMACOLOGIST DRUG SCREENING

The successful applicant will have a Ph.D. in pharmacology, molecular biology, cell biology, or a related field with broad experience in high-throughput screening, combinatoral drug design, and preclinical drug testing. Experience in a pharmaccutical and/or biotechnical company at a managerial level is highly desirable. The ideal candidate will possess strong written and oral communication skills and will thrive in a team-oriented environment.

Please forward curriculum vitae to: Human Resources, Originus Incorporated, 180 Jackson Plaza, Ann Arbor, MI 48103. E-mail: amansour@ originusinc.com.

MEDICAL WRITERS

Leading medical education company based in New York City has an immediate opening for **MEDICAL WRITERS**. Familiarity with development of biological/biomedical sciences manuscripts required. Ph.D. or advanced degree in the biological sciences preferred. The ability to write clearly and concisely is essential. You will be expected to work on your own initiative and interface with physicians, clients, and program directors. Some travel may be required. Please send résumé to: Harrison & Star Business Group, Human Resources Department, 10th Floor, 16 West 22nd Street, New York, NY 10010. FAX: 212-822-6693; e-mail: jobs@hsci. com; Attention: Medical Writers.

PROTEIN RESEARCHER: The U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), National Center for Agricultural Utilization Research (NCAUR), Peoria, Illinois, is seeking a permanent full-time Physical Scientist, GS-11/12/13 (salary range \$43,326 to \$80,279 per year commensurate with experience) for the New Crops and Processing Technology research unit. The successful candidate will explore new and unusual applications that can be filled by new crop proteins and protein-containing seed products. They will select research problems with the most potential; plan, organize, perform, and direct the research; interpret and report results; and cooperate with industrial partners for commercialization of the research. Responsibilities include publication and presentation of research results and participation in technical/professional societies. Position requires knowledge; skills; and abili-ties to conceive, plan, and conduct research on biochemical, physical, or chemical applications of pro-teins and other plant components. Applicants must have a Ph.D. or equivalent Doctoral degree in the field or a closely related science and/or professional research experience. Comprehensive benefits package includes paid annual and sick leave, life insurance, health insurance, and a savings and investment plan in addition to a federal retirement plan. U.S. citizenship is required. For full text of vacancy announcements, which include application information, call Mike Horn; Telephone: 309-681-6478; ARS vacancy http://www.ars.usda.gov/afm/hrd/ website: rejobs. For additional information about the position, contact: Dr. Thomas P. Abbott; Telephone: 309-681-6533. Position will be open until filled but applications postmarked before October 15, 2001, will be considered first. A second cutoff date will be November 15, 2001. Applications in response to this ad must reference Vacancy Announcement ARS-X1W-1500. The USDA is an Equal Opportunity Provider and Employer

Crosby, Heafey, Roach & May has an immediate opening for a full-time SCIENTIFIC CONSUL-TANT specializing in epidemiology and population biology to assist in pharmaceutical, medical device, and other litigation involving scientific issues in its Oakland, California, office. Candidates should have a Ph.D. in population biology with at least two years of postdoctoral training or an M.P.H. in epidemiology with extensive research experience. Applicants must have a good working knowledge of vertebrate population biology, experimental design, human physiology, and anatomy. Candidates must be adept at using both multivariate and nonparametric statistics. Completion of Postdoctoral Fellowships and a good publication record on appropriate topics in peer-reviewed journals are expected. Cardiovascular, orthopedic, and/or neurological backgrounds are desirable, but broad scientific training and exceptional writing and analytical skills are essential. Send curriculum vitae and cover letter detailing qualifications to:

Jeanne C. Freed Practice Support Supervisor Crosby, Heafey, Roach & May 1999 Harrison Street Suite 2600 Oakland, CA 94612 E-mail: jfreed@chrm.com FAX: 510-273-8832

GLOBAL OPPORTUNITIES

Department of Animal Science and Biotechnology, Kyungpook National University in Korea, seeks to hire a tenure-track ASSISTANT or ASSOCIATE PROFESSOR beginning March 2002. Applicants should have a Ph.D. in the field of biotechnology with good understanding of dairy science and microbiology.For more information, visit website: http://www. knu.ac.kr. Please send résumé to: Dr. Young K. Yeo, Professor and Chair, Department of Animal Science and Biotechnology, Kyungpook National University, Taegu, Korea. Telephone: +82-53-950-5757; e-mail: ykyeo@knu.ac.kr.

ANNOUNCEMENTS

RADCLIFFE INSTITUTE FELLOWSHIPS HARVARD UNIVERSITY

The Radcliffe Institute for Advanced Study awards about 40 fully funded Fellowships each year. Radcliffe Institute Fellowships are designed to support scholars, scientists, artists, and writers of exceptional promise and demonstrated accomplishment who wish to pursue independent work in academic and professional fields and in the creative arts. Applicants must have received their Doctorate or appropriate terminal degree at least two years prior to appointment (September 2002) or have achieved comparable professional achievement. Applications will be judged on the quality and significance of the proposed project and the applicant's record of accomplishment and promise. Women and men from across the United States and throughout the world, including developing countries, are encouraged to apply. The Institute is a scholarly community where individuals pursue advanced work across a wide range of academic disciplines, professions, or creative arts. Within this broad purpose, and in recognition of Radcliffe's historic contributions to the education of women and to the study of issues related to women, the Radcliffe Institute sustains a continuing commitment to the study of women, gender, and society.

The stipend amount is \$45,000. Fellows receive office or studio space and access to libraries and other resources of Harvard University. Residence in the Boston area and participation in the Institute community are required during the Fellowship year, which extends from September 9, 2002, through June 9, 2003. Fellows are expected to present their work in progress at a public colloquium, performance, or exhibition, and to attend other Fellows' events.

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

> Application Office 34 Concord Avenue Cambridge, MA 02138 Telephone: 617-496-1324 FAX: 617-495-8136 E-mail: fellowships@radcliffe.edu

Applications must be postmarked by October 15, 2001.

GRANTS

GRANT ANNOUNCEMENT

Funds for Inflammatory Bowel Disease (IBD) research are available immediately from the Broad Medical Research Program of the Eli and Edythe L. Broad Foundation for innovative projects regarding etiology, therapy, or prevention. Grants totaling approximately \$100,000 per year are available for basic or clinical projects. Larger requests may be considered. Initial letter of interest (no submission deadline), simple application, and rapid (60-day) peer review and funding. Criteria for funding include new ideas or directions, scientific excellence, and originality. Early exploratory projects, Scientists not currently working in IBD, and/or interdisciplinary efforts are encouraged. Contact: Marciana Poland, Research Adminis

Contact: Marciana Poland, Research Administrator, Broad Medical Research Program, 10900 Wilshire Boulevard, 12th Floor, Los Angeles, CA 90024-6532. Telephone: 310-954-5091; e-mail: info@broadmedical.org; website: http://www. broadmedical.org.

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